

**SECTION AV**

**AUDIO, VISUAL & NAVIGATION SYSTEM**

**CONTENTS**

|  |  |           |    |
|--|--|-----------|----|
| <b>BASE AUDIO WITHOUT NAVIGATION</b>           | DTC Logic .....  | 32        | F  |
| <b>BASIC INSPECTION</b> .....                  | <b>U1216 AV CONTROL UNIT</b> .....                     | <b>33</b> | G  |
| <b>DIAGNOSIS AND REPAIR WORKFLOW</b> .....     | Description .....                                      | 33        |    |
| Work Flow .....                                | DTC Logic .....  | 33        |    |
| <b>SYSTEM DESCRIPTION</b> .....                | <b>U1243 DISPLAY UNIT</b> .....                        | <b>34</b> | H  |
| <b>MULTI AV SYSTEM</b> .....                   | Description .....                                      | 34        |    |
| System Diagram .....                           | DTC Logic .....  | 34        |    |
| System Description .....                       | Diagnosis Procedure .....                              | 34        |    |
| Component Parts Location .....                 | <b>U1255 SATELLITE RADIO TUNER</b> .....               | <b>36</b> | I  |
| Component Description .....                    | Description .....                                      | 36        |    |
| <b>AUDIO SYSTEM</b> .....                      | DTC Logic .....  | 36        | J  |
| System Diagram .....                           | Diagnosis Procedure .....                              | 36        |    |
| System Description .....                       | <b>U1300 AV COMM CIRCUIT</b> .....                     | <b>38</b> | K  |
| Component Parts Location .....                 | Description .....                                      | 38        |    |
| Component Description .....                    | <b>POWER SUPPLY AND GROUND CIRCUIT</b> ....            | <b>39</b> | L  |
| <b>DIAGNOSIS SYSTEM (AV CONTROL UNIT)</b> .... | <b>AV CONTROL UNIT</b> .....                           | <b>39</b> |    |
| Diagnosis Description .....                    | AV CONTROL UNIT : Diagnosis Procedure .....            | 39        |    |
| CONSULT - III Function (MULTI AV) .....        | <b>DISPLAY UNIT</b> .....                              | <b>39</b> | M  |
| <b>DTC/CIRCUIT DIAGNOSIS</b> .....             | DISPLAY UNIT : Diagnosis Procedure .....               | 39        |    |
| <b>U1000 CAN COMM CIRCUIT</b> .....            | <b>MULTIFUNCTION SWITCH</b> .....                      | <b>40</b> | AV |
| Description .....                              | MULTIFUNCTION SWITCH : Diagnosis Proce-<br>dure .....  | 40        |    |
| DTC Logic .....                                | <b>SATELLITE RADIO TUNER</b> .....                     | <b>41</b> | O  |
| Diagnosis Procedure .....                      | SATELLITE RADIO TUNER : Diagnosis Proce-<br>dure ..... | 41        |    |
| <b>U1010 CONTROL UNIT (CAN)</b> .....          | <b>RGB (R: RED) SIGNAL CIRCUIT</b> .....               | <b>42</b> | P  |
| Description .....                              | Description .....                                      | 42        |    |
| DTC Logic .....                                | Diagnosis Procedure .....                              | 42        |    |
| Diagnosis Procedure .....                      | <b>RGB (G: GREEN) SIGNAL CIRCUIT</b> .....             | <b>43</b> |    |
| <b>U1310 AV CONTROL UNIT</b> .....             | Description .....                                      | 43        |    |
| Description .....                              | Diagnosis Procedure .....                              | 43        |    |
| DTC Logic .....                                | <b>RGB (B: BLUE) SIGNAL CIRCUIT</b> .....              | <b>44</b> |    |
| <b>U1200 AV CONTROL UNIT</b> .....             | Description .....                                      | 44        |    |
| Description .....                              | Diagnosis Procedure .....                              | 44        |    |

|   |           |  |            |
|---|-----------|--|------------|
| Description .....   | 44        | Wiring Diagram - BASE AUDIO - .....  | 82         |
| Diagnosis Procedure .....                                       | 44        | <b>SATELLITE RADIO TUNER .....</b>   | <b>94</b>  |
| <b>RGB SYNCHRONIZING SIGNAL CIRCUIT .....</b>                   | <b>45</b> | Reference Value .....  | 94         |
| Description .....   | 45        | Wiring Diagram - BASE AUDIO - .....  | 95         |
| Diagnosis Procedure .....                                       | 45        | <b>SYMPTOM DIAGNOSIS .....</b>   | <b>107</b> |
| <b>RGB AREA (YS) SIGNAL CIRCUIT .....</b>                       | <b>46</b> | <b>MULTI AV SYSTEM SYMPTOMS .....</b>  | <b>107</b> |
| Description .....   | 46        | Symptom Table .....  | 107        |
| Diagnosis Procedure .....                                       | 46        | <b>NORMAL OPERATING CONDITION .....</b>  | <b>109</b> |
| <b>HORIZONTAL SYNCHRONIZING (HP) SIG-<br/>NAL CIRCUIT .....</b> | <b>47</b> | Description .....  | 109        |
| Description .....   | 47        | <b>PRECAUTION .....</b>  | <b>111</b> |
| Diagnosis Procedure .....                                       | 47        | <b>PRECAUTIONS .....</b>   | <b>111</b> |
| <b>VERTICAL SYNCHRONIZING (VP) SIGNAL<br/>CIRCUIT .....</b>     | <b>48</b> | Precaution for Supplemental Restraint System<br>(SRS) "AIR BAG" and "SEAT BELT PRE-TEN-<br>SIONER" ..... | 111        |
| Description .....   | 48        | Precaution for Trouble Diagnosis .....   | 111        |
| Diagnosis Procedure .....                                       | 48        | Precaution for Harness Repair .....  | 111        |
| <b>AUX IMAGE SIGNAL CIRCUIT .....</b>                           | <b>49</b> | <b>PREPARATION .....</b>   | <b>113</b> |
| Description .....   | 49        | <b>PREPARATION .....</b>   | <b>113</b> |
| Diagnosis Procedure .....                                       | 49        | Commercial Service Tools .....   | 113        |
| <b>CD EJECT SIGNAL CIRCUIT .....</b>                            | <b>51</b> | <b>REMOVAL AND INSTALLATION .....</b>  | <b>114</b> |
| Description .....   | 51        | <b>AV CONTROL UNIT .....</b>   | <b>114</b> |
| Diagnosis Procedure .....                                       | 51        | Exploded View .....  | 114        |
| <b>COMMUNICATION SIGNAL CIRCUIT<br/>(CONT-SAT) .....</b>        | <b>52</b> | Removal and Installation .....   | 114        |
| Description .....   | 52        | <b>DISPLAY UNIT .....</b>  | <b>115</b> |
| Diagnosis Procedure .....                                       | 52        | Exploded View .....  | 115        |
| <b>REQUEST SIGNAL CIRCUIT (SAT→CONT) ...</b>                    | <b>54</b> | Removal and Installation .....   | 115        |
| Description .....   | 54        | <b>FRONT DOOR SPEAKER .....</b>  | <b>116</b> |
| Diagnosis Procedure .....                                       | 54        | Exploded View .....  | 116        |
| <b>STEERING SWITCH SIGNAL A CIRCUIT .....</b>                   | <b>55</b> | Removal and Installation .....   | 116        |
| Description .....   | 55        | <b>REAR DOOR SPEAKER .....</b>   | <b>117</b> |
| Diagnosis Procedure .....                                       | 55        | Exploded View .....  | 117        |
| Component Inspection .....                                      | 55        | Removal and Installation .....   | 117        |
| <b>STEERING SWITCH SIGNAL B CIRCUIT .....</b>                   | <b>57</b> | <b>TWEETER .....</b>   | <b>118</b> |
| Description .....   | 57        | Exploded View .....  | 118        |
| Diagnosis Procedure .....                                       | 57        | Removal and Installation .....   | 118        |
| Component Inspection .....                                      | 57        | <b>ANTENNA AMP. ....</b>   | <b>119</b> |
| <b>STEERING SWITCH SIGNAL GND CIRCUIT ...</b>                   | <b>59</b> | Exploded View .....  | 119        |
| Description .....   | 59        | Removal and Installation .....   | 119        |
| Diagnosis Procedure .....                                       | 59        | <b>SATELLITE RADIO TUNER .....</b>   | <b>120</b> |
| Component Inspection .....                                      | 59        | Exploded View .....  | 120        |
| <b>ECU DIAGNOSIS INFORMATION .....</b>                          | <b>61</b> | Removal and Installation .....   | 120        |
| <b>AV CONTROL UNIT .....</b>                                    | <b>61</b> | <b>SATELLITE RADIO ANTENNA .....</b>   | <b>121</b> |
| Reference Value .....   | 61        | Exploded View .....  | 121        |
| Wiring Diagram - BASE AUDIO - .....                             | 67        | Removal and Installation .....   | 121        |
| DTC Index .....   | 78        | <b>MULTIFUNCTION SWITCH .....</b>  | <b>122</b> |
| <b>DISPLAY UNIT .....</b>                                       | <b>80</b> |  |            |
| Reference Value .....   | 80        |  |            |

|  |            |  |            |    |
|--|------------|--|------------|----|
| Exploded View .....                          | 122        | Description .....                                      | 156        |    |
| Removal and Installation .....               | 122        | DTC Logic .....  | 156        | A  |
| <b>PRESET SWITCH .....</b>                   | <b>123</b> | Diagnosis Procedure .....                              | 156        |    |
| Exploded View .....                          | 123        | <b>U1310 AV CONTROL UNIT .....</b>                     | <b>157</b> | B  |
| Removal and Installation .....               | 123        | Description .....                                      | 157        |    |
| <b>STEERING SWITCH .....</b>                 | <b>124</b> | DTC Logic .....  | 157        |    |
| Exploded View .....                          | 124        | <b>U1200 AV CONTROL UNIT .....</b>                     | <b>158</b> | C  |
| Removal and Installation .....               | 124        | Description .....                                      | 158        |    |
| <b>AUXILIARY INPUT JACKS .....</b>           | <b>125</b> | DTC Logic .....  | 158        |    |
| Exploded View .....                          | 125        | <b>U1216 AV CONTROL UNIT .....</b>                     | <b>159</b> | D  |
| Removal and Installation .....               | 125        | Description .....                                      | 159        |    |
| <b>ANTENNA FEEDER (RADIO) .....</b>          | <b>126</b> | DTC Logic .....  | 159        |    |
| Harness Layout .....                         | 126        | <b>U1243 DISPLAY UNIT .....</b>                        | <b>160</b> | E  |
| <b>ANTENNA FEEDER (SATELLITE RADIO) ....</b> | <b>127</b> | Description .....                                      | 160        |    |
| Harness Layout .....                         | 127        | DTC Logic .....  | 160        | F  |
| <b>BOSE AUDIO WITHOUT NAVIGATION</b>         |            | Diagnosis Procedure .....                              | 160        |    |
| <b>BASIC INSPECTION .....</b>                | <b>128</b> | <b>U1255 SATELLITE RADIO TUNER .....</b>               | <b>162</b> | G  |
| <b>DIAGNOSIS AND REPAIR WORKFLOW .....</b>   | <b>128</b> | Description .....                                      | 162        |    |
| Work Flow .....                              | 128        | DTC Logic .....  | 162        |    |
| <b>SYSTEM DESCRIPTION .....</b>              | <b>130</b> | Diagnosis Procedure .....                              | 162        |    |
| <b>MULTI AV SYSTEM .....</b>                 | <b>130</b> | <b>U1300 AV COMM CIRCUIT .....</b>                     | <b>164</b> | H  |
| System Diagram .....                         | 130        | Description .....                                      | 164        |    |
| System Description .....                     | 130        | <b>POWER SUPPLY AND GROUND CIRCUIT ..</b>              | <b>165</b> | I  |
| Component Parts Location .....               | 132        | <b>AV CONTROL UNIT .....</b>                           | <b>165</b> |    |
| Component Description .....                  | 133        | AV CONTROL UNIT : Diagnosis Procedure .....            | 165        | J  |
| <b>AUDIO SYSTEM .....</b>                    | <b>135</b> | <b>DISPLAY UNIT .....</b>                              | <b>165</b> |    |
| System Diagram .....                         | 135        | DISPLAY UNIT : Diagnosis Procedure .....               | 165        |    |
| System Description .....                     | 135        | <b>MULTIFUNCTION SWITCH .....</b>                      | <b>166</b> | K  |
| Component Parts Location .....               | 136        | MULTIFUNCTION SWITCH : Diagnosis Proce-<br>dure .....  | 166        |    |
| Component Description .....                  | 137        | <b>BOSE AMP. ....</b>                                  | <b>167</b> | L  |
| <b>HANDS-FREE PHONE SYSTEM .....</b>         | <b>138</b> | BOSE AMP. : Diagnosis Procedure .....                  | 167        |    |
| System Diagram .....                         | 138        | <b>IPOD ADAPTER .....</b>                              | <b>168</b> | M  |
| System Description .....                     | 138        | iPod ADAPTER : Diagnosis Procedure .....               | 168        |    |
| Component Parts Location .....               | 139        | <b>SATELLITE RADIO TUNER .....</b>                     | <b>168</b> |    |
| Component Description .....                  | 140        | SATELLITE RADIO TUNER : Diagnosis Proce-<br>dure ..... | 168        | AV |
| <b>DIAGNOSIS SYSTEM (AV CONTROL UNIT)..</b>  | <b>141</b> | <b>TEL ADAPTER UNIT .....</b>                          | <b>168</b> | O  |
| Diagnosis Description .....                  | 141        | TEL ADAPTER UNIT : Diagnosis Procedure .....           | 168        |    |
| CONSULT - III Function (MULTI AV) .....      | 150        | <b>RGB (R: RED) SIGNAL CIRCUIT .....</b>               | <b>170</b> | P  |
| <b>DIAGNOSIS SYSTEM (TEL ADAPTER UNIT).</b>  | <b>153</b> | Description .....                                      | 170        |    |
| Diagnosis Description .....                  | 153        | Diagnosis Procedure .....                              | 170        |    |
| <b>DTC/CIRCUIT DIAGNOSIS .....</b>           | <b>155</b> | <b>RGB (G: GREEN) SIGNAL CIRCUIT .....</b>             | <b>171</b> |    |
| <b>U1000 CAN COMM CIRCUIT .....</b>          | <b>155</b> | Description .....                                      | 171        |    |
| Description .....                            | 155        | Diagnosis Procedure .....                              | 171        |    |
| DTC Logic .....                              | 155        | <b>RGB (B: BLUE) SIGNAL CIRCUIT .....</b>              | <b>172</b> |    |
| Diagnosis Procedure .....                    | 155        | Description .....                                      | 172        |    |
| <b>U1010 CONTROL UNIT (CAN) .....</b>        | <b>156</b> |  |            |    |

|   |            |  |            |
|---|------------|--|------------|
| Diagnosis Procedure .....                                       | 172        | Component Inspection .....   | 191        |
| <b>RGB SYNCHRONIZING SIGNAL CIRCUIT ...</b>                     | <b>173</b> | <b>ECU DIAGNOSIS INFORMATION .....</b>   | <b>193</b> |
| Description .....   | 173        | <b>AV CONTROL UNIT .....</b>   | <b>193</b> |
| Diagnosis Procedure .....                                       | 173        | Reference Value .....  | 193        |
| <b>RGB AREA (YS) SIGNAL CIRCUIT .....</b>                       | <b>174</b> | Wiring Diagram - BOSE AUDIO WITHOUT NAVI-<br>GATION SYSTEM - .....                                       | 200        |
| Description .....   | 174        | DTC Index .....  | 217        |
| Diagnosis Procedure .....                                       | 174        | <b>DISPLAY UNIT .....</b>  | <b>219</b> |
| <b>HORIZONTAL SYNCHRONIZING (HP) SIG-<br/>NAL CIRCUIT .....</b> | <b>175</b> | Reference Value .....  | 219        |
| Description .....   | 175        | Wiring Diagram - BOSE AUDIO WITHOUT NAVI-<br>GATION SYSTEM - .....                                       | 221        |
| Diagnosis Procedure .....                                       | 175        | <b>BOSE AMP. ....</b>  | <b>239</b> |
| <b>VERTICAL SYNCHRONIZING (VP) SIGNAL<br/>CIRCUIT .....</b>     | <b>176</b> | Reference Value .....  | 239        |
| Description .....   | 176        | Wiring Diagram - BOSE AUDIO WITHOUT NAVI-<br>GATION SYSTEM - .....                                       | 241        |
| Diagnosis Procedure .....                                       | 176        | <b>iPod ADAPTER .....</b>  | <b>259</b> |
| <b>AUX IMAGE SIGNAL CIRCUIT .....</b>                           | <b>177</b> | Reference Value .....  | 259        |
| Description .....   | 177        | Wiring Diagram - BOSE AUDIO WITHOUT NAVI-<br>GATION SYSTEM - .....                                       | 261        |
| Diagnosis Procedure .....                                       | 177        | <b>SATELLITE RADIO TUNER .....</b>   | <b>278</b> |
| <b>CD EJECT SIGNAL CIRCUIT .....</b>                            | <b>179</b> | Reference Value .....  | 278        |
| Description .....   | 179        | Wiring Diagram - BOSE AUDIO WITHOUT NAVI-<br>GATION SYSTEM - .....                                       | 279        |
| Diagnosis Procedure .....                                       | 179        | <b>TEL ADAPTER UNIT .....</b>  | <b>297</b> |
| <b>MICROPHONE SIGNAL CIRCUIT .....</b>                          | <b>180</b> | Reference Value .....  | 297        |
| Description .....   | 180        | Wiring Diagram - BOSE AUDIO WITHOUT NAVI-<br>GATION SYSTEM - .....                                       | 298        |
| Diagnosis Procedure .....                                       | 180        | <b>SYMPTOM DIAGNOSIS .....</b>   | <b>316</b> |
| <b>CONTROL SIGNAL CIRCUIT .....</b>                             | <b>182</b> | <b>MULTI AV SYSTEM SYMPTOMS .....</b>  | <b>316</b> |
| Description .....   | 182        | Symptom Table .....  | 316        |
| Diagnosis Procedure .....                                       | 182        | <b>NORMAL OPERATING CONDITION .....</b>  | <b>320</b> |
| <b>MODE CHANGE SIGNAL CIRCUIT .....</b>                         | <b>183</b> | Description .....  | 320        |
| Description .....   | 183        | <b>PRECAUTION .....</b>  | <b>322</b> |
| Diagnosis Procedure .....                                       | 183        | <b>PRECAUTIONS .....</b>   | <b>322</b> |
| <b>COMMUNICATION SIGNAL CIRCUIT<br/>(CONT-SAT) .....</b>        | <b>184</b> | Precaution for Supplemental Restraint System<br>(SRS) "AIR BAG" and "SEAT BELT PRE-TEN-<br>SIONER" ..... | 322        |
| Description .....   | 184        | Precaution for Trouble Diagnosis .....   | 322        |
| Diagnosis Procedure .....                                       | 184        | Precaution for Harness Repair .....  | 322        |
| <b>REQUEST SIGNAL CIRCUIT (SAT→CONT) .</b>                      | <b>186</b> | <b>PREPARATION .....</b>   | <b>324</b> |
| Description .....   | 186        | <b>PREPARATION .....</b>   | <b>324</b> |
| Diagnosis Procedure .....                                       | 186        | Commercial Service Tools .....   | 324        |
| <b>STEERING SWITCH SIGNAL A CIRCUIT .....</b>                   | <b>187</b> | <b>REMOVAL AND INSTALLATION .....</b>  | <b>325</b> |
| Description .....   | 187        | <b>AV CONTROL UNIT .....</b>   | <b>325</b> |
| Diagnosis Procedure .....                                       | 187        | Exploded View .....  | 325        |
| Component Inspection .....                                      | 187        | Removal and Installation .....   | 325        |
| <b>STEERING SWITCH SIGNAL B CIRCUIT .....</b>                   | <b>189</b> |  |            |
| Description .....   | 189        |  |            |
| Diagnosis Procedure .....                                       | 189        |  |            |
| Component Inspection .....                                      | 189        |  |            |
| <b>STEERING SWITCH SIGNAL GND CIRCUIT.</b>                      | <b>191</b> |  |            |
| Description .....   | 191        |  |            |
| Diagnosis Procedure .....                                       | 191        |  |            |

|                                      |            |   |            |    |
|--------------------------------------|------------|---|------------|----|
| <b>DISPLAY UNIT</b> .....            | <b>326</b> | Removal and Installation .....                | 341        |    |
| Exploded View .....                  | 326        |   |            | A  |
| Removal and Installation .....       | 326        |   |            |    |
| <b>FRONT DOOR SQUAWKER</b> .....     | <b>327</b> | <b>AUXILIARY INPUT JACKS</b> .....            | <b>342</b> |    |
| Exploded View .....                  | 327        | Exploded View .....                           | 342        | B  |
| Removal and Installation .....       | 327        | Removal and Installation .....                | 342        |    |
| <b>FRONT DOOR WOOFER</b> .....       | <b>328</b> | <b>MICROPHONE</b> .....                       | <b>343</b> |    |
| Exploded View .....                  | 328        | Exploded View .....                           | 343        | C  |
| Removal and Installation .....       | 328        | Removal and Installation .....                | 343        |    |
| <b>REAR DOOR SPEAKER</b> .....       | <b>329</b> | <b>TEL ANTENNA</b> .....                      | <b>344</b> |    |
| Exploded View .....                  | 329        | Exploded View .....                           | 344        | D  |
| Removal and Installation .....       | 329        | Removal and Installation .....                | 344        |    |
| <b>TWEETER</b> .....                 | <b>330</b> | <b>TEL ADAPTER UNIT</b> .....                 | <b>345</b> |    |
| Exploded View .....                  | 330        | Exploded View .....                           | 345        | E  |
| Removal and Installation .....       | 330        | Removal and Installation .....                | 345        |    |
| <b>CENTER SPEAKER</b> .....          | <b>331</b> | <b>ANTENNA FEEDER (RADIO)</b> .....           | <b>346</b> |    |
| Exploded View .....                  | 331        | Harness Layout .....                          | 346        | F  |
| Removal and Installation .....       | 331        | <b>ANTENNA FEEDER (SATELLITE RADIO)</b> ....  | <b>347</b> |    |
| <b>REAR WOOFER</b> .....             | <b>332</b> | Harness Layout .....                          | 347        | G  |
| Exploded View .....                  | 332        | <b>BOSE AUDIO WITH NAVIGATION</b>             |            |    |
| Removal and Installation .....       | 332        | <b>BASIC INSPECTION</b> .....                 | <b>348</b> | H  |
| <b>BOSE AMP.</b> .....               | <b>333</b> | <b>DIAGNOSIS AND REPAIR WORK FLOW</b> .....   | <b>348</b> |    |
| Exploded View .....                  | 333        | Work Flow .....                               | 348        | I  |
| Removal and Installation .....       | 333        | <b>INSPECTION AND ADJUSTMENT</b> .....        | <b>350</b> |    |
| <b>ANTENNA AMP.</b> .....            | <b>334</b> | <b>ADDITIONAL SERVICE WHEN REMOVING BAT-</b>  |            |    |
| Exploded View .....                  | 334        | <b>TERY NEGATIVE TERMINAL</b> .....           | <b>350</b> | J  |
| Removal and Installation .....       | 334        | ADDITIONAL SERVICE WHEN REMOVING              |            |    |
| <b>SATELLITE RADIO TUNER</b> .....   | <b>335</b> | BATTERY NEGATIVE TERMINAL : Description ..    | 350        | K  |
| Exploded View .....                  | 335        | ADDITIONAL SERVICE WHEN REMOVING              |            |    |
| Removal and Installation .....       | 335        | BATTERY NEGATIVE TERMINAL : Special Re-       |            |    |
| <b>SATELLITE RADIO ANTENNA</b> ..... | <b>336</b> | pair Requirement .....                        | 350        | L  |
| Exploded View .....                  | 336        | <b>ADDITIONAL SERVICE WHEN REPLACING</b>      |            |    |
| Removal and Installation .....       | 336        | <b>CONTROL UNIT</b> .....                     | <b>350</b> | M  |
| <b>MULTIFUNCTION SWITCH</b> .....    | <b>337</b> | ADDITIONAL SERVICE WHEN REPLACING             |            |    |
| Exploded View .....                  | 337        | CONTROL UNIT : Description .....              | 350        |    |
| Removal and Installation .....       | 337        | ADDITIONAL SERVICE WHEN REPLACING             |            |    |
| <b>PRESET SWITCH</b> .....           | <b>338</b> | CONTROL UNIT : Special Repair Requirement ... | 350        | AV |
| Exploded View .....                  | 338        | <b>REAR VIEW MONITOR POSSIBLE ROUTE LINE</b>  |            |    |
| Removal and Installation .....       | 338        | <b>CENTER POSITION ADJUSTMENT</b> .....       | <b>350</b> |    |
| <b>STEERING SWITCH</b> .....         | <b>339</b> | REAR VIEW MONITOR POSSIBLE ROUTE LINE         |            | O  |
| Exploded View .....                  | 339        | CENTER POSITION ADJUSTMENT : Description      |            |    |
| Removal and Installation .....       | 339        | ..350   |            |    |
| <b>iPod ADAPTER</b> .....            | <b>340</b> | REAR VIEW MONITOR POSSIBLE ROUTE LINE         |            |    |
| Exploded View .....                  | 340        | CENTER POSITION ADJUSTMENT : Special Re-      |            |    |
| Removal and Installation .....       | 340        | pair Requirement .....                        | 350        | P  |
| <b>iPod CONNECTOR</b> .....          | <b>341</b> | <b>SYSTEM DESCRIPTION</b> .....               | <b>351</b> |    |
| Exploded View .....                  | 341        | <b>MULTI AV SYSTEM</b> .....                  | <b>351</b> |    |
|                                      |            | System Diagram .....                          | 351        |    |
|                                      |            | System Description .....                      | 351        |    |
|                                      |            | Component Parts Location .....                | 354        |    |

|   |            |  |            |
|---|------------|--|------------|
| Component Description .....                     | 355        | DTC Logic .....                        | 395        |
| <b>NAVIGATION SYSTEM .....</b>                  | <b>357</b> | <b>U1220 AV CONTROL UNIT .....</b>     | <b>396</b> |
| System Diagram .....                            | 357        | Description .....                      | 396        |
| System Description .....                        | 357        | DTC Logic .....                        | 396        |
| Component Parts Location .....                  | 360        | <b>U121A AV CONTROL UNIT .....</b>     | <b>397</b> |
| Component Description .....                     | 361        | Description .....                      | 397        |
| <b>REAR VIEW MONITOR SYSTEM .....</b>           | <b>362</b> | DTC Logic .....                        | 397        |
| System Diagram .....                            | 362        | <b>U121B AV CONTROL UNIT .....</b>     | <b>398</b> |
| System Description .....                        | 362        | Description .....                      | 398        |
| Component Parts Location .....                  | 363        | DTC Logic .....                        | 398        |
| Component Description .....                     | 364        | <b>U121C AV CONTROL UNIT .....</b>     | <b>399</b> |
| <b>AUDIO SYSTEM .....</b>                       | <b>365</b> | Description .....                      | 399        |
| System Diagram .....                            | 365        | DTC Logic .....                        | 399        |
| System Description .....                        | 365        | <b>U121D AV CONTROL UNIT .....</b>     | <b>400</b> |
| Component Parts Location .....                  | 367        | Description .....                      | 400        |
| Component Description .....                     | 368        | DTC Logic .....                        | 400        |
| <b>DIAGNOSIS SYSTEM (AV CONTROL UNIT) .....</b> | <b>369</b> | <b>U121E AV CONTROL UNIT .....</b>     | <b>401</b> |
| Diagnosis Description .....                     | 369        | Description .....                      | 401        |
| CONSULT - III Function (MULTI AV) .....         | 383        | DTC Logic .....                        | 401        |
| <b>DTC/CIRCUIT DIAGNOSIS .....</b>              | <b>387</b> | <b>U121F AV CONTROL UNIT .....</b>     | <b>402</b> |
| <b>U1000 CAN COMM CIRCUIT .....</b>             | <b>387</b> | Description .....                      | 402        |
| Description .....                               | 387        | DTC Logic .....                        | 402        |
| DTC Logic .....                                 | 387        | Diagnosis Procedure .....              | 402        |
| Diagnosis Procedure .....                       | 387        | <b>U1204 GPS .....</b>                 | <b>403</b> |
| <b>U1010 CONTROL UNIT (CAN) .....</b>           | <b>388</b> | Description .....                      | 403        |
| Description .....                               | 388        | DTC Logic .....                        | 403        |
| DTC Logic .....                                 | 388        | Diagnosis Procedure .....              | 403        |
| Diagnosis Procedure .....                       | 388        | <b>U1205 GPS .....</b>                 | <b>404</b> |
| <b>U1310 AV CONTROL UNIT .....</b>              | <b>389</b> | Description .....                      | 404        |
| Description .....                               | 389        | DTC Logic .....                        | 404        |
| DTC Logic .....                                 | 389        | Diagnosis Procedure .....              | 404        |
| <b>U1200 AV CONTROL UNIT .....</b>              | <b>390</b> | <b>U1206 GPS .....</b>                 | <b>405</b> |
| Description .....                               | 390        | Description .....                      | 405        |
| DTC Logic .....                                 | 390        | DTC Logic .....                        | 405        |
| <b>U1201 AV CONTROL UNIT .....</b>              | <b>391</b> | Diagnosis Procedure .....              | 405        |
| Description .....                               | 391        | <b>U1207 GPS .....</b>                 | <b>406</b> |
| DTC Logic .....                                 | 391        | Description .....                      | 406        |
| <b>U1216 AV CONTROL UNIT .....</b>              | <b>392</b> | DTC Logic .....                        | 406        |
| Description .....                               | 392        | Diagnosis Procedure .....              | 406        |
| DTC Logic .....                                 | 392        | <b>U1243 DISPLAY UNIT .....</b>        | <b>407</b> |
| <b>U1217 AV CONTROL UNIT .....</b>              | <b>393</b> | Description .....                      | 407        |
| Description .....                               | 393        | DTC Logic .....                        | 407        |
| DTC Logic .....                                 | 393        | Diagnosis Procedure .....              | 407        |
| <b>U1218 AV CONTROL UNIT .....</b>              | <b>394</b> | <b>U1244 GPS ANTENNA .....</b>         | <b>409</b> |
| Description .....                               | 394        | Description .....                      | 409        |
| DTC Logic .....                                 | 394        | DTC Logic .....                        | 409        |
| <b>U1219 AV CONTROL UNIT .....</b>              | <b>395</b> | Diagnosis Procedure .....              | 409        |
| Description .....                               | 395        | <b>U1250 CAMERA CONTROL UNIT .....</b> | <b>410</b> |

|   |            |  |            |    |
|---|------------|--|------------|----|
| Description .....   | 410        | <b>AUX IMAGE SIGNAL CIRCUIT .....</b>  | <b>424</b> |    |
| DTC Logic .....   | 410        | Description .....  | 424        | A  |
| Diagnosis Procedure .....                                 | 410        | Diagnosis Procedure .....  | 424        |    |
| <b>U1258 SATELLITE RADIO ANTENNA .....</b>                | <b>411</b> | <b>MODE CHANGE SIGNAL CIRCUIT .....</b>  | <b>425</b> | B  |
| Description .....   | 411        | Description .....  | 425        |    |
| DTC Logic .....   | 411        | Diagnosis Procedure .....  | 425        |    |
| Diagnosis Procedure .....                                 | 411        | <b>CD EJECT SIGNAL CIRCUIT .....</b>   | <b>426</b> | C  |
| <b>U1300 AV COMM CIRCUIT .....</b>                        | <b>412</b> | Description .....  | 426        |    |
| Description .....   | 412        | Diagnosis Procedure .....  | 426        |    |
| <b>POWER SUPPLY AND GROUND CIRCUIT ...</b>                | <b>413</b> | <b>MICROPHONE SIGNAL CIRCUIT .....</b>   | <b>427</b> | D  |
| <b>AV CONTROL UNIT .....</b>                              | <b>413</b> | Description .....  | 427        |    |
| AV CONTROL UNIT : Diagnosis Procedure .....               | 413        | Diagnosis Procedure .....  | 427        | E  |
| <b>DISPLAY UNIT .....</b>                                 | <b>413</b> | <b>CAMERA IMAGE SIGNAL CIRCUIT (REAR VIEW CAMERA TO CAMERA CONTROL UNIT) .....</b> | <b>429</b> | F  |
| DISPLAY UNIT : Diagnosis Procedure .....                  | 413        | Description .....  | 429        |    |
| <b>MULTIFUNCTION SWITCH .....</b>                         | <b>414</b> | Diagnosis Procedure .....  | 429        |    |
| MULTIFUNCTION SWITCH : Diagnosis Procedure .....          | 414        | <b>CAMERA ON SIGNAL CIRCUIT .....</b>  | <b>430</b> | G  |
| <b>CAMERA CONTROL UNIT .....</b>                          | <b>415</b> | Description .....  | 430        |    |
| CAMERA CONTROL UNIT : Diagnosis Procedure .....           | 415        | Diagnosis Procedure .....  | 430        | H  |
| <b>BOSE AMP. ....</b>                                     | <b>415</b> | <b>CAMERA IMAGE SIGNAL CIRCUIT (CAMERA CONTROL UNIT TO DISPLAY UNIT) ....</b>      | <b>431</b> | I  |
| BOSE AMP. : Diagnosis Procedure .....                     | 415        | Description .....  | 431        |    |
| <b>IPOD ADAPTER .....</b>                                 | <b>416</b> | Diagnosis Procedure .....  | 431        |    |
| iPod ADAPTER : Diagnosis Procedure .....                  | 416        | <b>STEERING ANGLE SENSOR SIGNAL 1, 2 CIRCUIT .....</b>                             | <b>432</b> | J  |
| <b>RGB (R: RED) SIGNAL CIRCUIT .....</b>                  | <b>417</b> | Description .....  | 432        |    |
| Description .....   | 417        | Diagnosis Procedure .....  | 432        |    |
| Diagnosis Procedure .....                                 | 417        | <b>STEERING ANGLE SENSOR SIGNAL 3 CIRCUIT .....</b>                                | <b>434</b> | K  |
| <b>RGB (G: GREEN) SIGNAL CIRCUIT .....</b>                | <b>418</b> | Description .....  | 434        |    |
| Description .....   | 418        | Diagnosis Procedure .....  | 434        | L  |
| Diagnosis Procedure .....                                 | 418        | <b>STEERING SWITCH SIGNAL A CIRCUIT .....</b>                                      | <b>436</b> | M  |
| <b>RGB (B: BLUE) SIGNAL CIRCUIT .....</b>                 | <b>419</b> | Description .....  | 436        |    |
| Description .....   | 419        | Diagnosis Procedure .....  | 436        |    |
| Diagnosis Procedure .....                                 | 419        | Component Inspection .....   | 436        |    |
| <b>RGB SYNCHRONIZING SIGNAL CIRCUIT ....</b>              | <b>420</b> | <b>STEERING SWITCH SIGNAL B CIRCUIT .....</b>                                      | <b>438</b> | AV |
| Description .....   | 420        | Description .....  | 438        |    |
| Diagnosis Procedure .....                                 | 420        | Diagnosis Procedure .....  | 438        |    |
| <b>RGB AREA (YS) SIGNAL CIRCUIT .....</b>                 | <b>421</b> | Component Inspection .....   | 438        | O  |
| Description .....   | 421        | <b>STEERING SWITCH SIGNAL GND CIRCUIT .</b>  | <b>440</b> |    |
| Diagnosis Procedure .....                                 | 421        | Description .....  | 440        |    |
| <b>HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT .....</b> | <b>422</b> | Diagnosis Procedure .....  | 440        | P  |
| Description .....   | 422        | Component Inspection .....   | 440        |    |
| Diagnosis Procedure .....                                 | 422        | <b>ECU DIAGNOSIS INFORMATION .....</b>   | <b>442</b> |    |
| <b>VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT .....</b>   | <b>423</b> | <b>AV CONTROL UNIT .....</b>   | <b>442</b> |    |
| Description .....   | 423        | Reference Value .....  | 442        |    |
| Diagnosis Procedure .....                                 | 423        |  |            |    |

|  |            |                                      |            |
|--|------------|--------------------------------------|------------|
| Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM - .....                                       | 448        | Exploded View .....                  | 578        |
| Fail-Safe .....  | 468        | Removal and Installation .....       | 578        |
| DTC Index .....  | 470        | <b>REAR DOOR SPEAKER .....</b>       | <b>579</b> |
| <b>DISPLAY UNIT .....</b>  | <b>471</b> | Exploded View .....                  | 579        |
| Reference Value .....  | 471        | Removal and Installation .....       | 579        |
| Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM - .....                                       | 473        | <b>TWEETER .....</b>                 | <b>580</b> |
| <b>BOSE AMP. ....</b>  | <b>494</b> | Exploded View .....                  | 580        |
| Reference Value .....  | 494        | Removal and Installation .....       | 580        |
| Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM - .....                                       | 496        | <b>CENTER SPEAKER .....</b>          | <b>581</b> |
| <b>iPod ADAPTER .....</b>  | <b>517</b> | Exploded View .....                  | 581        |
| Reference Value .....  | 517        | Removal and Installation .....       | 581        |
| Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM - .....                                       | 519        | <b>REAR WOOFER .....</b>             | <b>582</b> |
| <b>CAMERA CONTROL UNIT .....</b>   | <b>539</b> | Exploded View .....                  | 582        |
| Reference Value .....  | 539        | Removal and Installation .....       | 582        |
| Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM - .....                                       | 541        | <b>BOSE AMP. ....</b>                | <b>583</b> |
| <b>SYMPTOM DIAGNOSIS .....</b>   | <b>562</b> | Exploded View .....                  | 583        |
| <b>MULTI AV SYSTEM SYMPTOMS .....</b>  | <b>562</b> | Removal and Installation .....       | 583        |
| Symptom Table .....  | 562        | <b>ANTENNA AMP. ....</b>             | <b>584</b> |
| <b>NORMAL OPERATING CONDITION .....</b>  | <b>567</b> | Exploded View .....                  | 584        |
| Description .....  | 567        | Removal and Installation .....       | 584        |
| <b>PRECAUTION .....</b>  | <b>572</b> | <b>SATELLITE RADIO ANTENNA .....</b> | <b>585</b> |
| <b>PRECAUTIONS .....</b>   | <b>572</b> | Exploded View .....                  | 585        |
| Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" ..... | 572        | Removal and Installation .....       | 585        |
| Precaution for Trouble Diagnosis .....   | 572        | <b>MULTIFUNCTION SWITCH .....</b>    | <b>586</b> |
| Precaution for Harness Repair .....  | 572        | Exploded View .....                  | 586        |
| <b>PREPARATION .....</b>   | <b>574</b> | Removal and Installation .....       | 586        |
| <b>PREPARATION .....</b>   | <b>574</b> | <b>PRESET SWITCH .....</b>           | <b>587</b> |
| Commercial Service Tools .....   | 574        | Exploded View .....                  | 587        |
| <b>REMOVAL AND INSTALLATION .....</b>  | <b>575</b> | Removal and Installation .....       | 587        |
| <b>AV CONTROL UNIT .....</b>   | <b>575</b> | <b>STEERING SWITCH .....</b>         | <b>588</b> |
| Exploded View .....  | 575        | Exploded View .....                  | 588        |
| Removal and Installation .....   | 575        | Removal and Installation .....       | 588        |
| <b>DISPLAY UNIT .....</b>  | <b>576</b> | <b>iPod ADAPTER .....</b>            | <b>589</b> |
| Exploded View .....  | 576        | Exploded View .....                  | 589        |
| Removal and Installation .....   | 576        | Removal and Installation .....       | 589        |
| <b>FRONT DOOR SQUAWKER .....</b>   | <b>577</b> | <b>iPod CONNECTOR .....</b>          | <b>590</b> |
| Exploded View .....  | 577        | Exploded View .....                  | 590        |
| Removal and Installation .....   | 577        | Removal and Installation .....       | 590        |
| <b>FRONT DOOR WOOFER .....</b>   | <b>578</b> | <b>AUXILIARY INPUT JACKS .....</b>   | <b>591</b> |
|  |            | Exploded View .....                  | 591        |
|  |            | Removal and Installation .....       | 591        |
|  |            | <b>MICROPHONE .....</b>              | <b>592</b> |
|  |            | Exploded View .....                  | 592        |
|  |            | Removal and Installation .....       | 592        |
|  |            | <b>GPS ANTENNA .....</b>             | <b>593</b> |
|  |            | Exploded View .....                  | 593        |
|  |            | Harness Layout .....                 | 593        |



|                                    |            |  |            |   |
|------------------------------------|------------|--|------------|---|
| Removal and Installation .....     | 594        | Exploded View .....                          | 598        |   |
| <b>CAMERA CONTROL UNIT .....</b>   | <b>595</b> | Removal and Installation .....               | 598        | A |
| Exploded View .....                | 595        | Adjustment .....                             | 598        |   |
| Removal and Installation .....     | 595        | <b>ANTENNA FEEDER (RADIO) .....</b>          | <b>599</b> | B |
| Adjustment .....                   | 595        | Harness Layout .....                         | 599        |   |
| <b>REAR VIEW CAMERA .....</b>      | <b>596</b> | <b>ANTENNA FEEDER (SATELLITE RADIO) ....</b> | <b>600</b> | C |
| Exploded View .....                | 596        | Harness Layout .....                         | 600        |   |
| Removal and Installation .....     | 596        | <b>ANTENNA FEEDER (GPS) .....</b>            | <b>601</b> | D |
| Adjustment .....                   | 596        | Harness Layout .....                         | 601        |   |
| <b>STEERING ANGLE SENSOR .....</b> | <b>598</b> |  |            | E |

AV

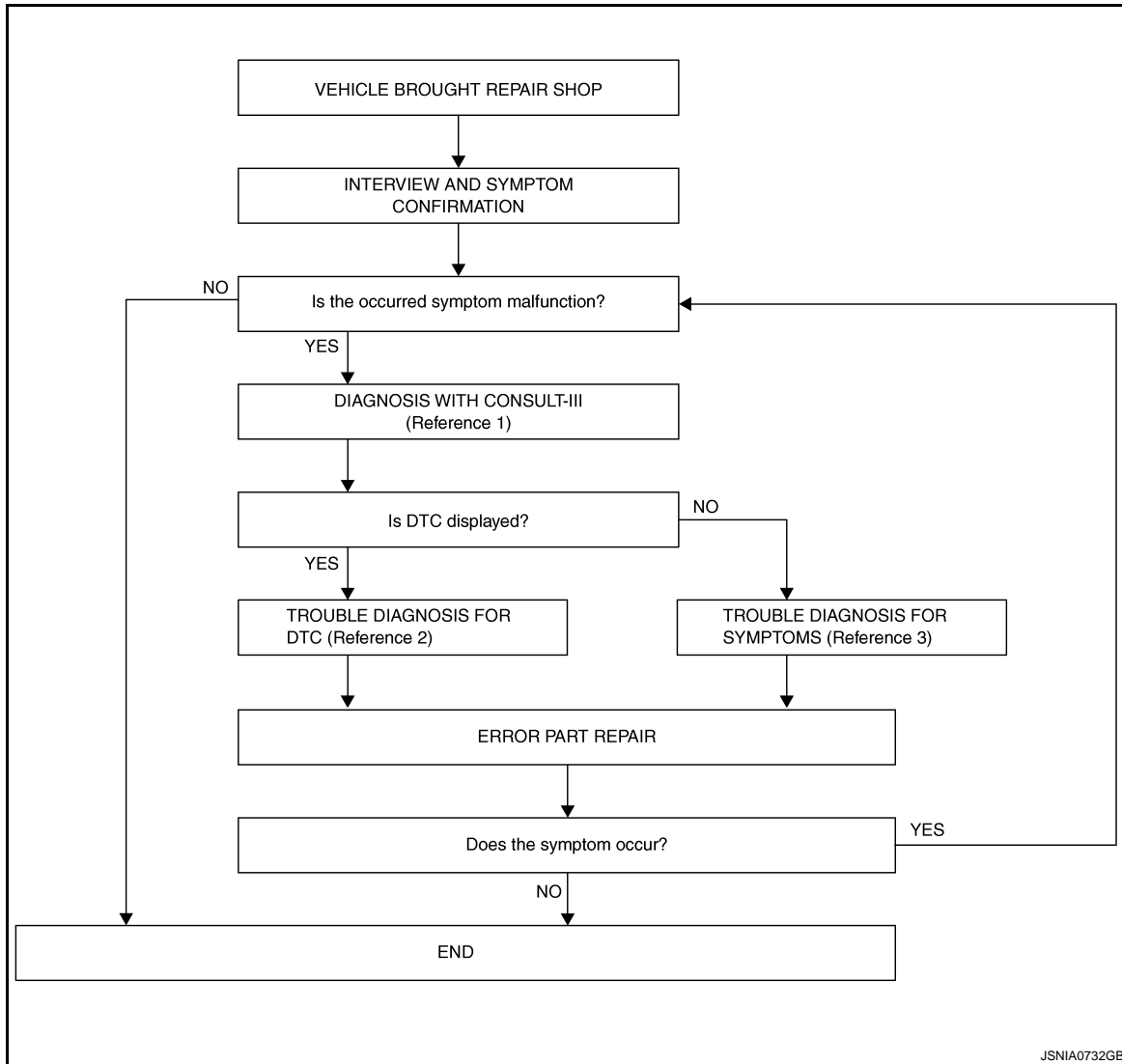
## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORKFLOW

#### Work Flow

INFOID:000000004238441

#### OVERALL SEQUENCE



JSNIA0732GB

- Reference 1... Refer to [AV-26, "CONSULT - III Function \(MULTI AV\)"](#).
- Reference 2... Refer to [AV-78, "DTC Index"](#).
- Reference 3... Refer to [AV-107, "Symptom Table"](#).

#### DETAILED FLOW

##### 1. INTERVIEW AND SYMPTOM CONFIRMATION

Check the malfunction symptoms by performing the following items.

- Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred).
- Check the symptom.

##### Is the occurred symptom malfunction?

YES >> GO TO 2.

NO >> INSPECTION END

##### 2. DIAGNOSIS WITH CONSULT-III

# DIAGNOSIS AND REPAIR WORKFLOW

[BASE AUDIO WITHOUT NAVIGATION]

< BASIC INSPECTION >

1. Connect CONSULT-III and perform a self-diagnosis for "MULTI AV". Refer to [AV-26, "CONSULT - III Function \(MULTI AV\)"](#).

**NOTE:**

Skip to step 4 of the diagnosis procedure if "MULTI AV" is not displayed.

2. Check if any DTC is displayed in the self-diagnosis results.

Is DTC displayed?

YES >> GO TO 3.

NO >> GO TO 4.

## 3. TROUBLE DIAGNOSIS FOR DTC

1. Check the DTC indicated in the self-diagnosis results.
2. Perform the relevant diagnosis referring to the DTC Index. Refer to [AV-78, "DTC Index"](#).

>> GO TO 5.

## 4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to [AV-107, "Symptom Table"](#).

>> GO TO 5.

## 5. ERROR PART REPAIR

1. Repair or replace the identified malfunctioning parts.
2. Perform a self-diagnosis for "MULTI AV" with CONSULT-III.

**NOTE:**

Erase the stored self-diagnosis results after repairing or replacing the relevant components if any DTC has been indicated in the self-diagnosis results.

3. Check that the symptom does not occur.

Does the symptom occur?

YES >> GO TO 1.

NO >> INSPECTION END

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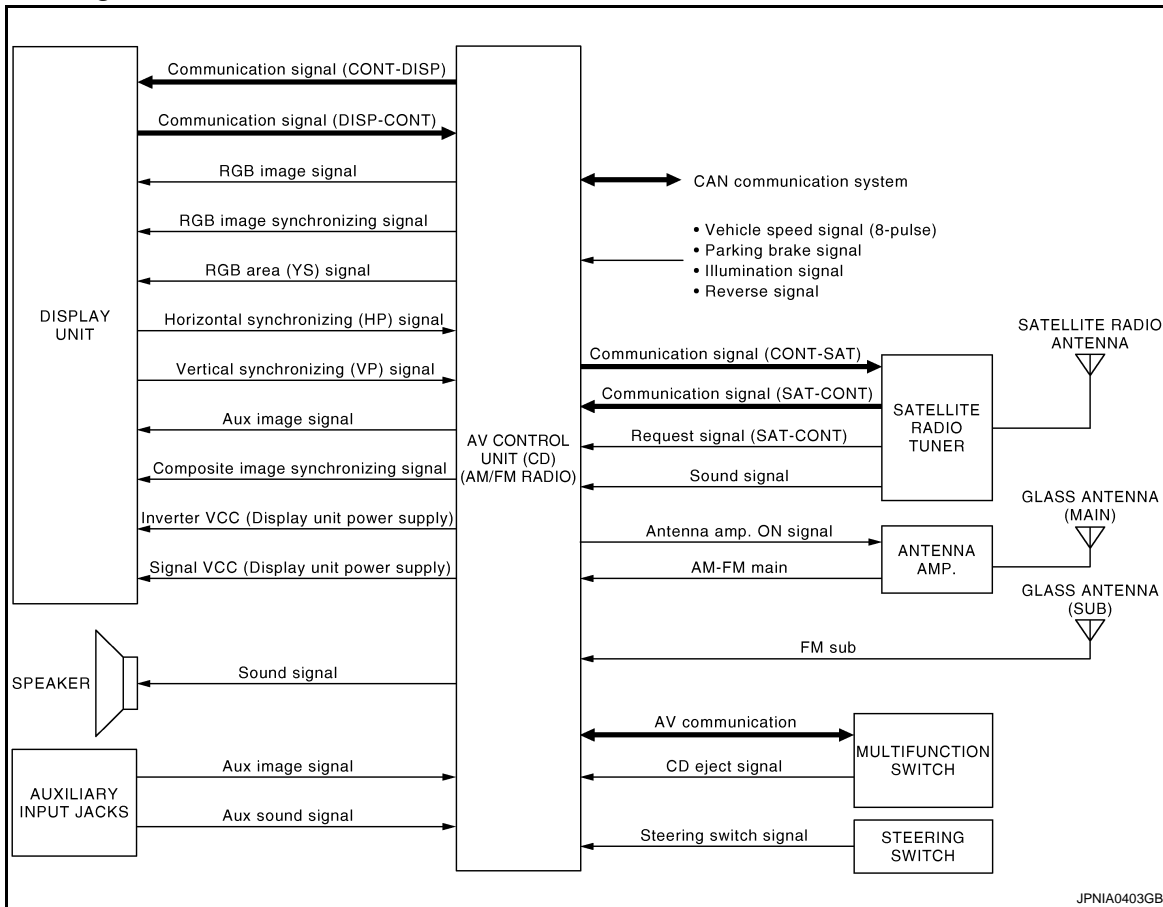
AV

SYSTEM DESCRIPTION

MULTI AV SYSTEM

System Diagram

INFOID:000000004238442



JPNIA0403GB

NOTE:

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

System Description

INFOID:000000004238443

Multi AV system means that the following systems are integrated.

| System name                | System explanation  |
|----------------------------|---|
| AUDIO SYSTEM               | <a href="#">AV-16. "System Description"</a>   |
| VEHICLE INFORMATION SYSTEM | <ul style="list-style-type: none"> <li>Indicates the status of audio, climate control system, fuel economy and maintenance.</li> <li>AV control unit displays the fuel consumption status while receiving data signal through CAN communication from ECM, unified meter and A/C amp and BCM.</li> </ul> |
| SATELLITE RADIO SYSTEM     | Refer to "SATELLITE RADIO SYSTEM" shown below.  |
| AUXILIARY INPUT SYSTEM     | Refer to "AUXILIARY INPUT SYSTEM" shown below.  |

- AV control unit functions by transmitting/receiving data one by one with each unit (slave unit) that configures them completely as a master unit by connecting between units that configure MULTI AV system with two AV communication lines (H, L).
- Two AV communication lines (H, L) adopt a twisted pair line that is resistant to noise.
- AV control unit is connected by CAN communication, and it receives data signal from ECM, unified meter and A/C amp. It computes and displays fuel economy information value with the obtained information. Transmitting/receiving of data signal is performed by BCM. Also, it transmits the required signal of vehicle setting and receives the response signal.

# MULTI AV SYSTEM

## [BASE AUDIO WITHOUT NAVIGATION]

### < SYSTEM DESCRIPTION >

- AV control unit is connected with display and serial communication, and it transmits the required signal of display and display control and receives the response signal from front display. Also, it is connected with satellite radio by serial communication, and it transmits the operating signal and receives the display signal.

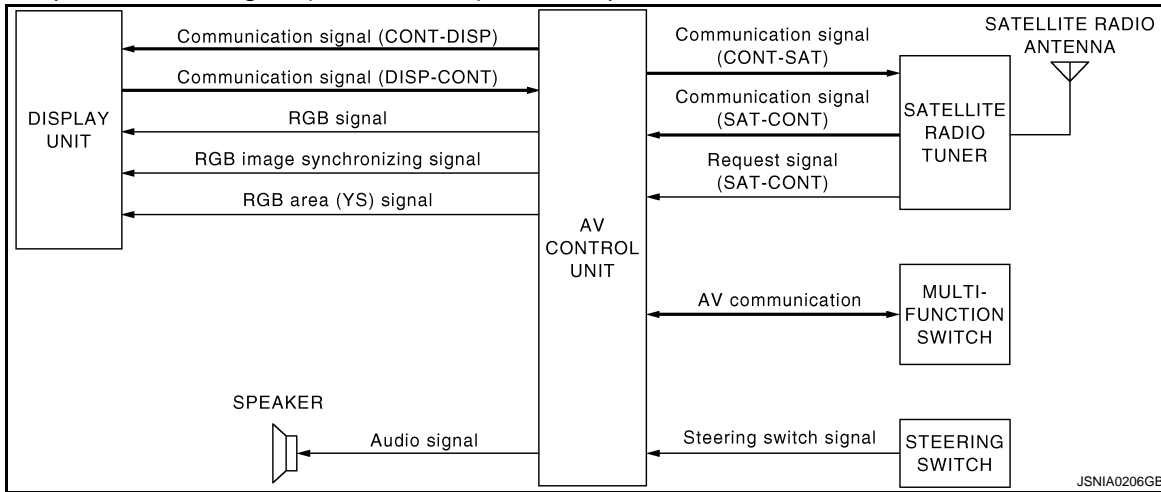
#### NOTE:

AV control unit can perform CONSULT-III self-operating function and on board self-diagnosis.

- CONSULT-III self-diagnosis: refer to [AV-26. "CONSULT - III Function \(MULTI AV\)"](#).
- On board self-diagnosis: refer to [AV-19. "Diagnosis Description"](#).

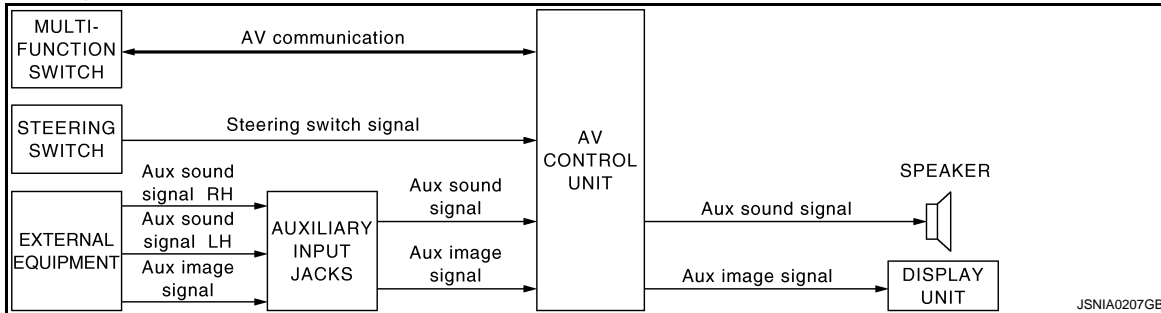
### SATELLITE RADIO SYSTEM

- Satellite radio tuner is controlled by communication signal and request signal with AV control unit.
- Audio signal (satellite radio) is received by satellite antenna and transmitted to AV control unit. AV control unit is output the audio signal (satellite radio) to each speaker.



### AUXILIARY INPUT SYSTEM

- Image and sound can be output from an external device by connecting a device with auxiliary input jacks.
- Operation can be performed with multifunction switch and steering switch. Multifunction switch transmits operation signal to AV control unit with communication.



AV

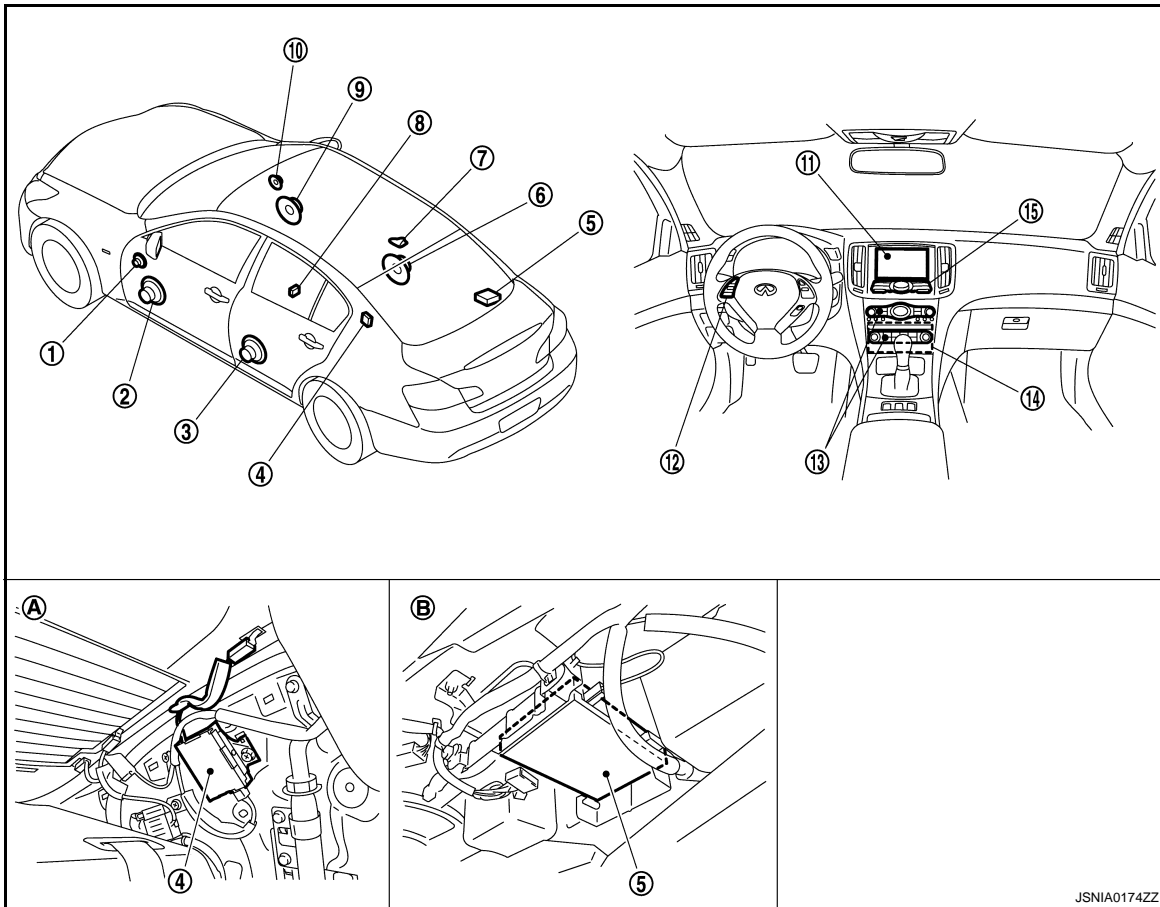
# MULTI AV SYSTEM

< SYSTEM DESCRIPTION >

[BASE AUDIO WITHOUT NAVIGATION]

## Component Parts Location

INFOID:000000004238444



JSNIA0174ZZ

- |                                   |   |                          |
|-----------------------------------|---|--------------------------|
| 1. Tweeter LH                     | 2. Front door speaker LH                    | 3. Rear door speaker LH  |
| 4. Antenna amp.                   | 5. Satellite radio tuner                    | 6. Rear door speaker RH  |
| 7. Satellite radio antenna        | 8. Auxiliary input jacks                    | 9. Front door speaker RH |
| 10. Tweeter RH                    | 11. Display unit                            | 12. Steering switch      |
| 13. Preset switch                 | 14. AV control unit                         | 15. Multifunction switch |
| A. Within rear pillar finisher LH | B. Rear parcel shelf lower part (left side) |                          |

# MULTI AV SYSTEM

[BASE AUDIO WITHOUT NAVIGATION]

< SYSTEM DESCRIPTION >

## Component Description

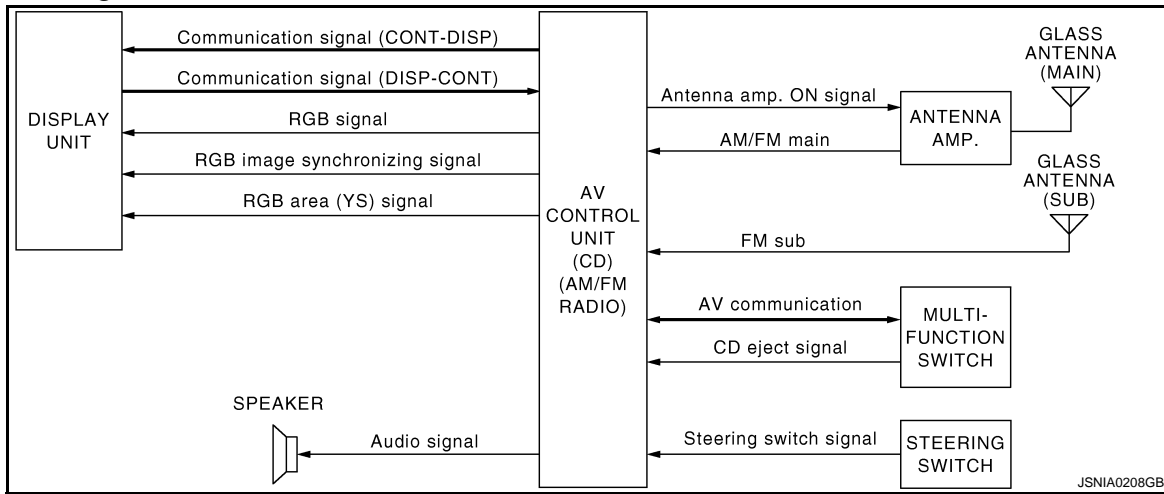
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| Part name               | Description   |
|-------------------------|---|
| AV CONTROL UNIT         | <ul style="list-style-type: none"> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>AV control unit includes audio function and vehicle information function.</li> <li>It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Auxiliary image signal is input from the auxiliary input jacks.</li> </ul> |
| DISPLAY UNIT            | <ul style="list-style-type: none"> <li>Display image is controlled by the serial communication from AV control unit.</li> <li>RGB image signal is input from AV control unit (RGB, RGB area and RGB synchronizing).</li> <li>Synchronizing signal (HP, VP) is output to AV control unit.</li> <li>Auxiliary image signal is input from the AV control unit.</li> </ul>  |
| FRONT DOOR SPEAKER      | <ul style="list-style-type: none"> <li>Outputs sound signal from AV control unit.</li> <li>Outputs high, mid and low range sounds.</li> </ul>   |
| REAR DOOR SPEAKER       | <ul style="list-style-type: none"> <li>Outputs sound signal from AV control unit.</li> <li>Outputs high, mid and low range sounds.</li> </ul>   |
| TWEETER                 | <ul style="list-style-type: none"> <li>Outputs sound signal from AV control unit.</li> <li>Outputs high range sound.</li> </ul>   |
| MULTIFUNCTION SWITCH    | <ul style="list-style-type: none"> <li>Operation panel is equipped with the centralized switch where audio and auxiliary input operations are integrated.</li> <li>Connected with preset switch via cable, and operation signal is transmitted to AV control unit via AV communication.</li> </ul>  |
| PRESET SWITCH           | <ul style="list-style-type: none"> <li>Operation panel is equipped with the centralized switch where audio and air conditioner operations are integrated.</li> <li>Connected with multifunction switch via cable, and operation signal is transmitted to AV control unit via AV communication.</li> <li>The CD ejection operating signal is performed by hardwire.</li> </ul>   |
| STEERING SWITCH         | <ul style="list-style-type: none"> <li>The operation of Audio, etc. can be performed.</li> <li>Steering switch signal (operation signal) is output to AV control unit.</li> </ul>   |
| AUXILIARY INPUT JACKS   | The image signal of the auxiliary input is output via the AV control unit to the display, and it outputs the sound signal to the AV control unit.   |
| ANTENNA AMP.            | <ul style="list-style-type: none"> <li>Radio signal received by glass antenna is amplified and transmitted to AV control unit.</li> <li>Power (antenna amp. ON signal) is supplied from AV control unit.</li> </ul>   |
| SATELLITE RADIO TUNER   | <ul style="list-style-type: none"> <li>Inputs the satellite radio signal from satellite radio antenna and outputs the sound signal to the AV control unit.</li> <li>It is controlled with the AV control unit and serial communication (communication signal and request signal).</li> </ul>  |
| SATELLITE RADIO ANTENNA | Receives the satellite radio signal and outputs it to the satellite radio tuner.  |

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## AUDIO SYSTEM

### System Diagram



### System Description

INFOID:000000004238447

The audio system is equipped with the following functions. Each function can be operated with the multifunction switch, preset switch or steering switch. It indicates the operation status of AUDIO to the display.

| Function    |
|-------------|
| AM/FM radio |
| CD          |

### FUNCTION DESCRIPTION

#### Operating Signal

Operation of the audio system can be performed with the multifunction switch, preset switch or steering switch.

- Operating signal is transmitted to AV control unit with AV communication when it is operated by multifunction switch or preset switch. The CD ejection operating signal is performed by hardware.
- Operating signal is transmitted to AV control unit with steering switch signal when it is operated by steering switch.

#### Screen Display

- The display switching of the screen is performed with the communication signal between the display and the AV control unit.
- The image signal to display operating condition is performed with RGB signal, RGB area signal and RGB image synchronizing signal.

#### AM/FM Radio Mode

- AM/FM radio tuner is built into AV control unit.
- Audio signal is received by glass antenna, next it is amplified by antenna amp, and finally it is input to AV control unit. AV control unit outputs the audio signal to each speaker.

#### CD Mode

- CD function is built into AV control unit.
- AV control unit outputs the audio signal to each speaker when inserting the CD to AV control unit.



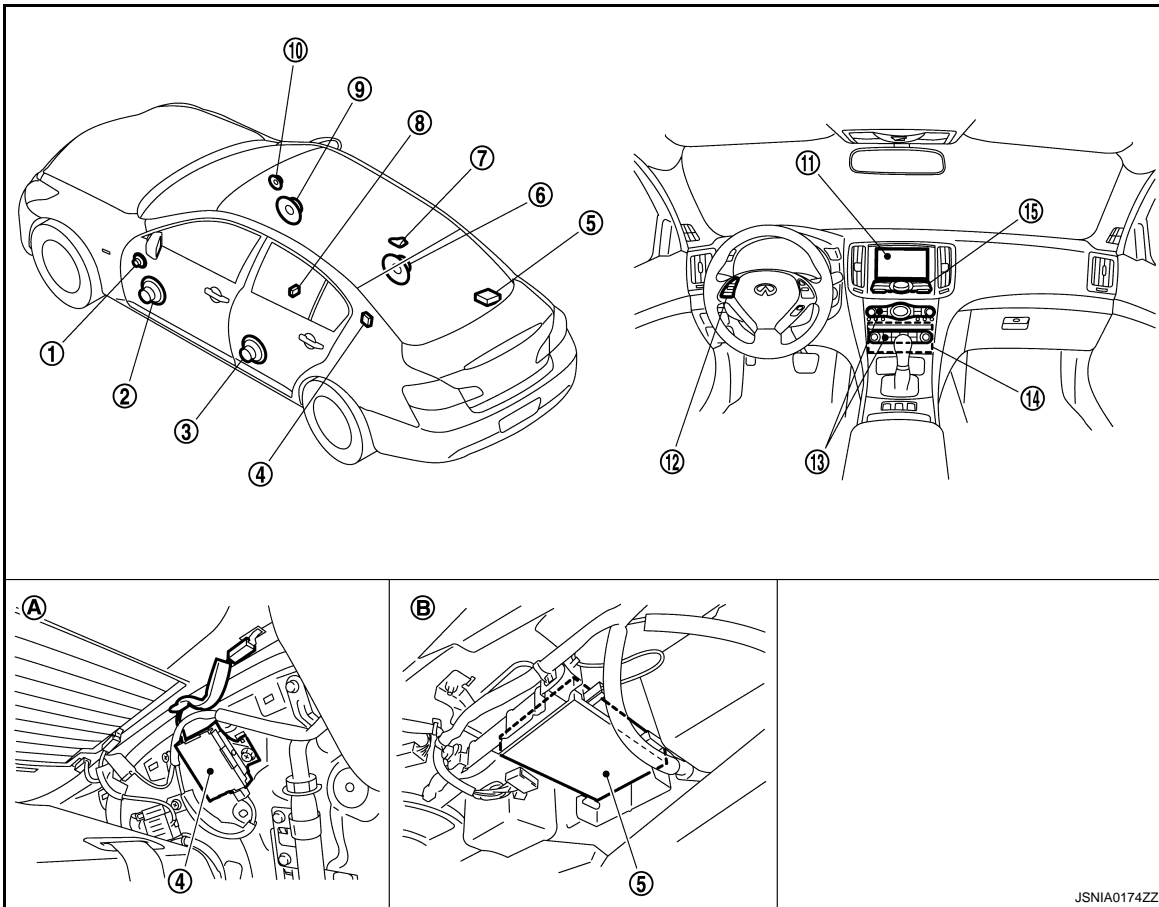
# AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[BASE AUDIO WITHOUT NAVIGATION]

## Component Parts Location

INFOID:000000004238448



- |                                   |   |                          |
|-----------------------------------|---|--------------------------|
| 1. Tweeter LH                     | 2. Front door speaker LH                    | 3. Rear door speaker LH  |
| 4. Antenna amp.                   | 5. Satellite radio tuner                    | 6. Rear door speaker RH  |
| 7. Satellite radio antenna        | 8. Auxiliary input jacks                    | 9. Front door speaker RH |
| 10. Tweeter RH                    | 11. Display unit                            | 12. Steering switch      |
| 13. Preset switch                 | 14. AV control unit                         | 15. Multifunction switch |
| A. Within rear pillar finisher LH | B. Rear parcel shelf lower part (left side) |                          |

## Component Description

INFOID:000000004238449

| Part name            | Description   |
|----------------------|---|
| AV CONTROL UNIT      | <ul style="list-style-type: none"> <li>The AM/FM receiving function and the CD playing function are equipped.</li> <li>Outputs the audio signal from each function to each speaker.</li> </ul>                        |
| DISPLAY UNIT         | <ul style="list-style-type: none"> <li>Display image is controlled by the serial communication from AV control unit.</li> <li>RGB image signal (audio operation condition) is input from AV control unit.</li> </ul>  |
| FRONT DOOR SPEAKER   | <ul style="list-style-type: none"> <li>Outputs sound signal from AV control unit.</li> <li>Outputs high, mid and low range sounds.</li> </ul>   |
| REAR DOOR SPEAKER    | <ul style="list-style-type: none"> <li>Outputs sound signal from AV control unit.</li> <li>Outputs high, mid and low range sounds.</li> </ul>   |
| TWEETER              | <ul style="list-style-type: none"> <li>Outputs sound signal from AV control unit.</li> <li>Outputs high range sound.</li> </ul>   |
| MULTIFUNCTION SWITCH | <ul style="list-style-type: none"> <li>Each audio operation can be operated.</li> <li>Connected with preset switch via cable, and operation signal is transmitted to AV control unit via AV communication.</li> </ul> |

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## AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[BASE AUDIO WITHOUT NAVIGATION]

| Part name       | Description   |
|-----------------|---|
| PRESET SWITCH   | <ul style="list-style-type: none"><li>• Each audio and air conditioner operation can be operated.</li><li>• Connected with multifunction switch via cable, and operation signal is transmitted to AV control unit via AV communication.</li><li>• The CD ejection operating signal is performed by hardwire</li></ul> |
| STEERING SWITCH | <ul style="list-style-type: none"><li>• Each audio operation can be operated.</li><li>• Steering switch signal (operation signal) is output to AV control unit.</li></ul>   |
| ANTENNA AMP.    | <ul style="list-style-type: none"><li>• Radio signal received by glass antenna is amplified and transmitted to AV control unit.</li><li>• Power (antenna amp. ON signal) is supplied from AV control unit.</li></ul>  |

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BASE AUDIO WITHOUT NAVIGATION]

## DIAGNOSIS SYSTEM (AV CONTROL UNIT)

### Diagnosis Description

INFOID:000000004238450

#### MULTIFUNCTION SWITCH AND PRESET SWITCH SELF-DIAGNOSIS FUNCTION

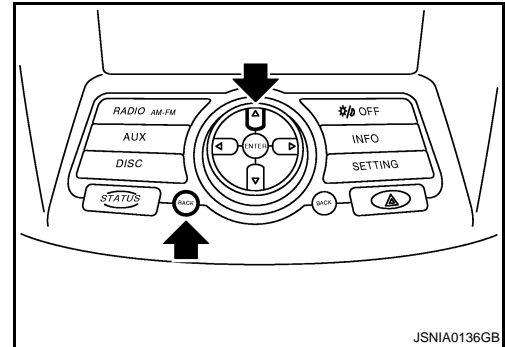
The ON/OFF operation (continuity) of each switch in the multifunction switch and preset switch can be checked.

##### Self-diagnosis Mode

- Press the “BACK” switch and the “UP” switch of the 4-direction switches within 10 seconds after turning the ignition switch from OFF to ACC and hold them for 3 seconds or more. The buzzer sounds, all indicators of the preset switch illuminate, and the self-diagnosis mode starts.
- The continuity of each switch at the ON position can be checked by pressing the switch. The buzzer sounds if the switch is normal.

**CAUTION:**

The hazard switch and CD eject switch cannot be checked.



##### Finishing Self-diagnosis Mode

Self-diagnosis mode is canceled when turning the ignition switch OFF.

#### MULTI AV SYSTEM ON BOARD DIAGNOSIS FUNCTION

- The AV control unit diagnosis function starts up with multifunction switch operation and the AV control unit performs a diagnosis for each unit in the system during the on board diagnosis.
- Perform a CONSULT-III diagnosis if the on board diagnosis does not start, e.g., the screen does not display anything, the multifunction switch does not function, etc.

#### ON BOARD DIAGNOSIS

##### Description

- The trouble diagnosis function has a self-diagnosis mode for conducting trouble diagnosis automatically and a confirmation/adjustment mode for operating manually.
- Self-diagnosis mode performs the AV control unit diagnosis and the connection diagnosis between each of the units that make up the system, and it indicates the results to the display.
- The confirmation/adjustment mode allows the technician to check, modify or adjust the vehicle signals and set values, as well as to monitor the system error records and system communication status. The checking, modifying or adjusting actions generally require human intervention and judgment (the system cannot make judgment automatically).

##### On Board Diagnosis Item

| Mode           | Description   |
|----------------|---|
| Self-Diagnosis | <ul style="list-style-type: none"> <li>• AV control unit diagnosis.</li> <li>• Perform the connection diagnosis between each of the units.</li> </ul> |

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# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

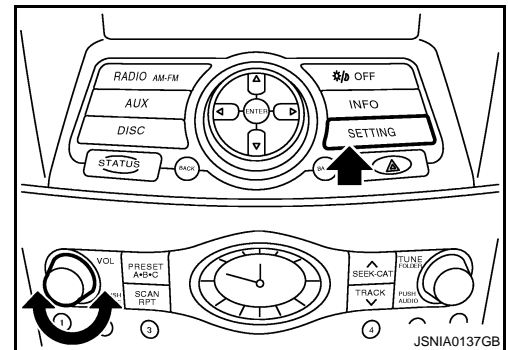
< SYSTEM DESCRIPTION >

[BASE AUDIO WITHOUT NAVIGATION]

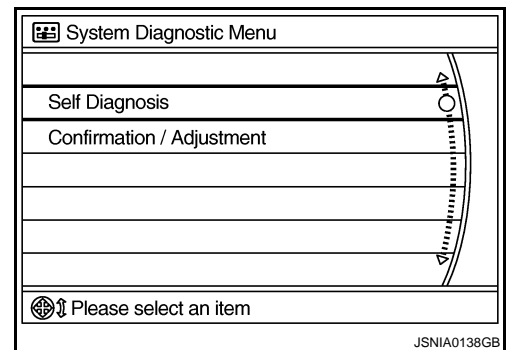
| Mode                                      | Description  |
|---|--|
| Display Diagnosis                         | The confirmations of the tint with the color spectrum bar display and shading of color with the gradation bar display can be performed.  |
| Vehicle Signals                           | Diagnosis of signals can be performed for vehicle speed, parking brake, lights, ignition switch, and reverse.  |
| Speaker Test                              | The connection of a speaker can be confirmed by test tone.   |
| Climate Control                           | Start auto air conditioner system self-diagnosis.  |
| Confirmation/ Adjustment<br>Error History | The system malfunction and the frequency when occurring in the past are displayed. When the malfunctioning item is selected, the time and place that the selected malfunction last occurred are displayed. |
| Vehicle CAN Diagnosis                     | The transmitting/receiving of CAN communication can be monitored.  |
| AV COMM Diagnosis                         | The communication condition of each unit of Multi AV system can be monitored.  |
| Delete Unit Connection Log                | Erase the connection history of unit and error history   |
| Initialize Settings                       | Initializes the AV control unit memory.  |

## STARTING PROCEDURE

1. Start the engine.
2. Turn the audio system OFF.
3. While pressing the "SETTING" button, turn the volume control dial clockwise or counterclockwise for 40 clicks or more. (When the self-diagnosis mode is started, a short beep will be heard.)
  - Shifting from current screen to previous screen is performed by pressing "BACK" button.

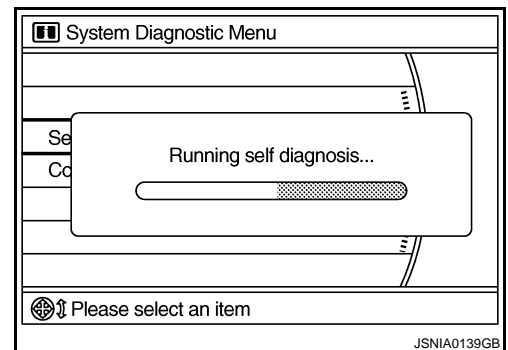


4. The trouble diagnosis initial screen is displayed, and then the items of "Self Diagnosis" and "Confirmation/Adjustment" can be selected.



## SELF-DIAGNOSIS MODE

1. Start the self-diagnosis function and select "Self-diagnosis".
  - Self-diagnosis subdivision screen is displayed, and the self-diagnosis mode starts.
  - The bar graph visible on the center of the self-diagnosis subdivision screen indicates progress of the trouble diagnosis.



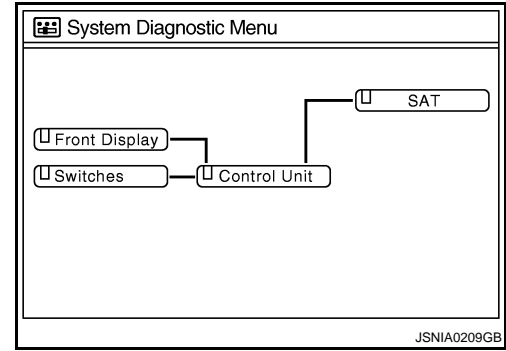
# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BASE AUDIO WITHOUT NAVIGATION]

< SYSTEM DESCRIPTION >

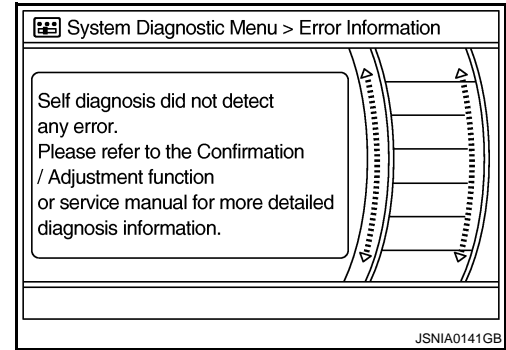
2. Diagnosis results are displayed after the self-diagnosis is completed. The unit names and the connection lines are color-coded according to the diagnostic results.

| Diagnosis results                | Unit  | Connection line |
|----------------------------------|-------|-----------------|
| Normal                           | Green | Green           |
| Connection malfunction           | Gray  | Yellow          |
| Unit malfunction <sup>Note</sup> | Red   | Green           |



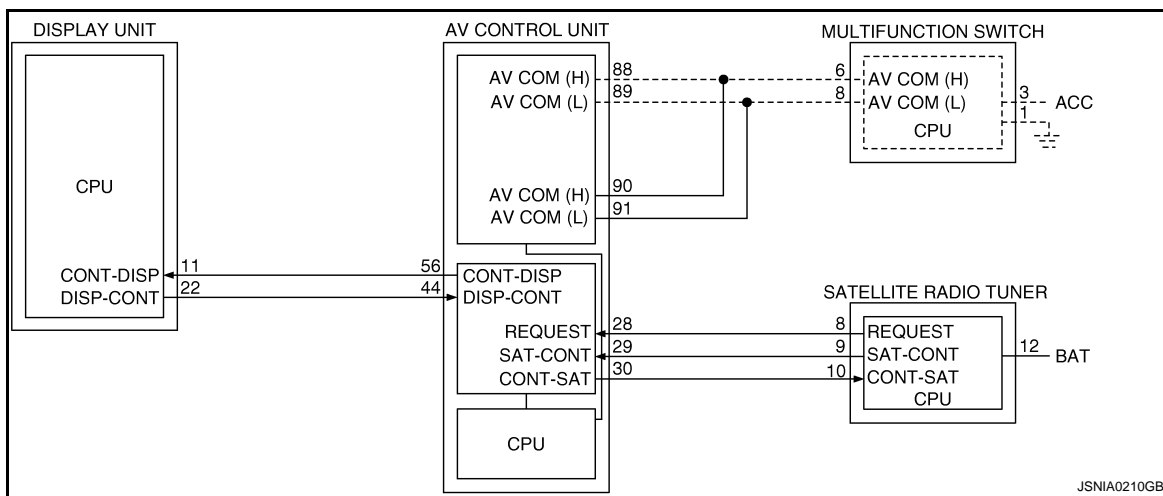
**NOTE:**

- Only the control unit (AV control unit) is displayed in red.
- Replace AV control unit if "Self-Diagnosis did not run because of a control unit malfunction" is indicated. The symptom is AV control unit internal error.
- If multiple errors occur at the same time for a single unit, the screen switch colors are determined according to the following order of priority: red > gray.
- The comments of the self-diagnosis results can be viewed with a component in the diagnosis result screen.



**Detection Range of Self-diagnosis Mode**

- The self-diagnosis mode allows the technician to diagnose the connection in the communication line between AV control unit and each unit and the internal operation of the AV control unit.
- Because the start condition of diagnosis function is a switch operation, the on board diagnosis function cannot be started up if any malfunction is detected in the communication circuit between AV control unit and multifunction switch.



**NOTE:**

On board self-diagnosis cannot be started when an error occurs on the dotted-line part above.

**SELF-DIAGNOSIS RESULTS**

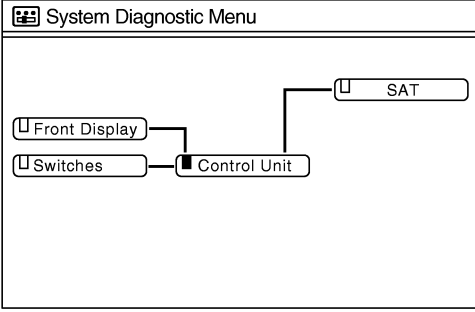
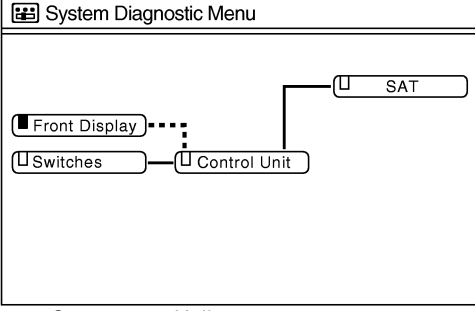
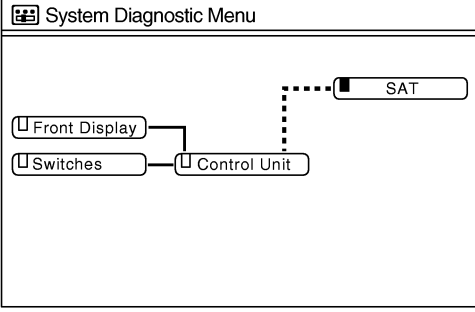
Check the applicable display at the following table, and then repair the malfunctioning parts.

Self-diagnosis Result Chart

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

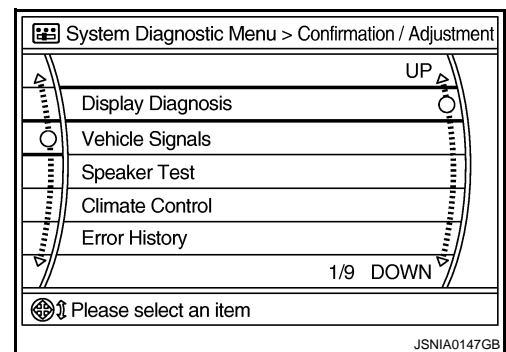
< SYSTEM DESCRIPTION >

[BASE AUDIO WITHOUT NAVIGATION]

| Area with yellow connection lines  | Description  | Possible malfunction location / Action to take  |
|--|--|---|
|  <p>■ : Red<br/>JSNIA0211GB</p>   | <p>AV control unit malfunction is detected.</p>  | <p>Replace the AV control unit.</p>   |
| <p>“Self-Diagnosis did not run because of a control unit malfunction”</p>  <p>■ : Gray    - - - - : Yellow<br/>JPNIA0464GB</p> | <ul style="list-style-type: none"> <li>• Malfunction is detected in communication circuit between AV control unit and display unit.</li> <li>• Malfunction is detected in communication signal between AV control unit and display unit.</li> </ul>  | <p>Communication circuit between AV control unit and display unit.</p>  |
|  <p>■ : Gray    - - - - : Yellow<br/>JSNIA0212GB</p>  | <ul style="list-style-type: none"> <li>• Satellite radio tuner power supply and ground circuit malfunction is detected.</li> <li>• Malfunction is detected in communication circuits between AV control unit and satellite radio tuner.</li> <li>• Malfunction is detected in communication signal between AV control unit and satellite radio tuner.</li> <li>• Malfunction is detected in request signal circuit between AV control unit and satellite radio tuner.</li> </ul> | <ul style="list-style-type: none"> <li>• Satellite radio tuner power supply and ground.</li> <li>• Communication circuit between AV control unit and satellite radio tuner.</li> <li>• Request signal circuit between AV control unit and satellite radio tuner.</li> </ul> |

## CONFIRMATION/ADJUSTMENT MODE

1. Start the diagnosis function and select “Confirmation/Adjustment”. The confirmation/adjustment mode indicates where each item can be checked or adjusted.
2. Select each switch on the “Inspection & Adjustment Mode” screen to display the relevant trouble diagnosis screen. Press the “RETURN” switch to return to the initial Inspection & Adjustment Mode screen.

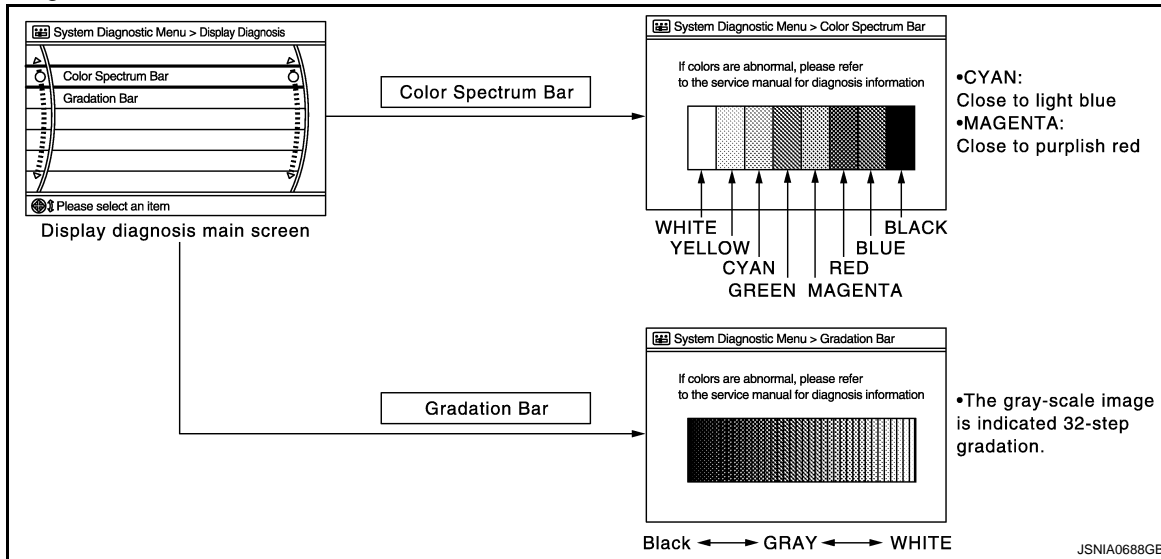


# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BASE AUDIO WITHOUT NAVIGATION]

## Display Diagnosis

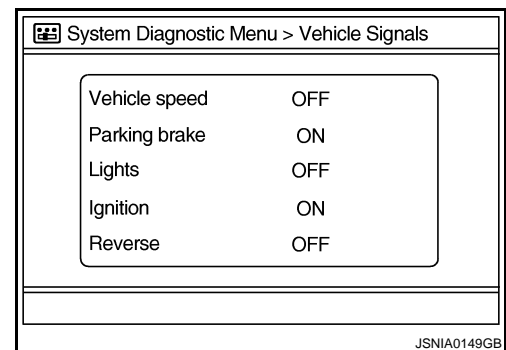


The tint of the color bar indication is as per the following list if RGB signal error is detected.

- R (red) signal error** : Light blue (Cyan) tint
- G (green) signal error** : Purple (Magenta) tint
- B (blue) signal error** : Yellow tint

## Vehicle Signals

A comparison check can be made of each actual vehicle signal and the signals recognized by the system.



| Diagnosis item | Display | Vehicle status                                   | Remarks   |
|----------------|---------|--|---|
| Vehicle speed  | ON      | Vehicle speed > 0 km/h (0 MPH)                   | Changes in indication may be delayed. This is normal. |
|                | OFF     | Vehicle speed = 0 km/h (0 MPH)                   |   |
| Parking brake  | ON      | Parking brake is applied.                        |   |
|                | OFF     | Parking brake is released.                       |   |
| Lights         | ON      | Light switch ON                                  | —   |
|                | OFF     | Light switch OFF                                 | —   |
| Ignition       | ON      | Ignition switch ON                               | —   |
|                | OFF     | Ignition switch in ACC position                  | —   |
| Reverse        | ON      | Shift the selector lever to "R" position         | Changes in indication may be delayed. This is normal. |
|                | OFF     | Shift the selector lever other than "R" position |   |

## Speaker Test

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BASE AUDIO WITHOUT NAVIGATION]

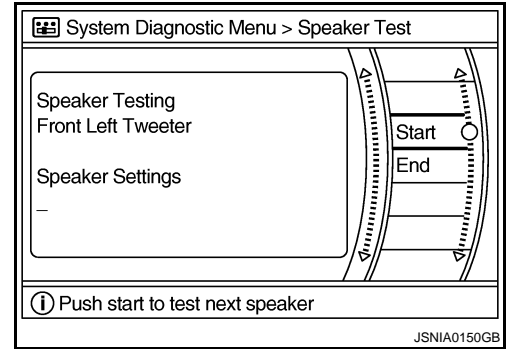
## < SYSTEM DESCRIPTION >

Select "SPEAKER DIAGNOSIS" to display the Speaker Diagnosis screen. Press "START and NEXT" to generate a test tone in a speaker. Press "Start" to generate a test tone in the next speaker. Press "End" to stop the test tones.

**NOTE:**

The frequency of test tone emitted from each speaker is as follows.

- Tweeter** : 3 kHz
- Front door speaker** : 300 Hz
- Rear door speaker** : 1 kHz



### Climate Control

Refer to "HEATER & AIR CONDITIONING CONTROL SYSTEM" for details.

### Error History

The self-diagnosis results are judged depending on whether any error occurs from when "Self-diagnosis" is selected until the self-diagnosis results are displayed.

However, the diagnosis results are judged normal if an error has occurred before the ignition SW is turned ON and then no error has occurred until the self-diagnosis start. Check the "Error Record" to detect any error that may have occurred before the self-diagnosis start because of this situation.

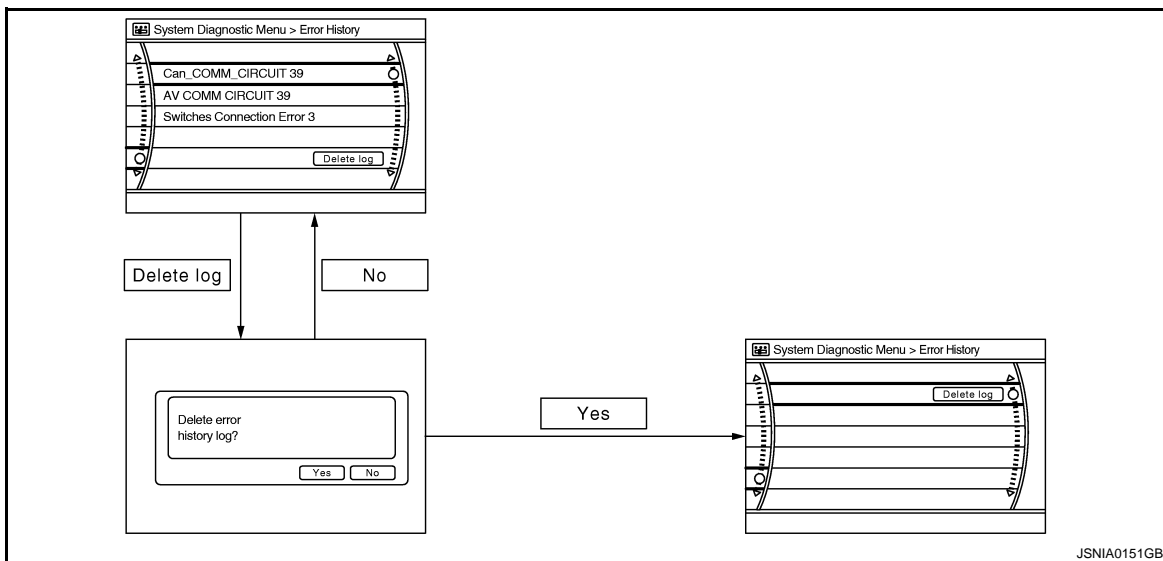
#### Count up method A

- The counter resets to 0 if an error occurs when IGN switch is turned ON. The counter increases by 1 if the condition is normal at a next IGN ON cycle.
- The counter upper limit is 39. Any counts exceeding 39 are ignored. The counter can be reset (no error record display) with the "Delete log" switch or CONSULT-III.

#### Count up method B

- The counter increases by 1 if an error occurs when IGN switch is ON. The counter will not decrease even if the condition is normal at the next IGN ON cycle.
- The counter upper limit is 50. Any counts exceeding 50 are ignored. The counter can be reset (no error record display) with the "Delete log" switch or CONSULT-III.

| Display type of occurrence frequency | Error history display item   |
|--------------------------------------|--|
| Count up method A                    | CAN communication line, control unit (CAN), AV communication line, control unit (AV communication) |
| Count up method B                    | Other than the above   |



### Error item

Some error items may be displayed simultaneously according to the cause. If some error items are displayed simultaneously, the detection of the cause can be performed by the combination of display items



# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

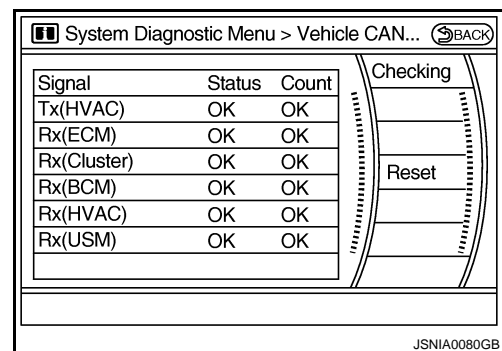
[BASE AUDIO WITHOUT NAVIGATION]

| Error item   | Description   | Possible malfunction factor/Action to take  |
|--|---|---|
| CAN COMM CIRCUIT   | CAN communication malfunction is detected.  | Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results.<br>Refer to <a href="#">AV-29, "Diagnosis Procedure"</a> .   |
| CONTROL UNIT (CAN)   | CAN initial diagnosis malfunction is detected.  | Replace the AV control unit.  |
| CONTROL UNIT (AV)  | AV communication circuit initial diagnosis malfunction is detected.   |   |
| FLASH-ROM Error Of Control Unit<br>CAN Controller Memory Error                                       | AV control unit malfunction is detected.  |   |
| Front Display Connection Error   | <ul style="list-style-type: none"> <li>Display unit power supply and ground circuit malfunction is detected.</li> <li>Malfunction is detected in communication circuit between AV control unit and display unit.</li> <li>Malfunction is detected in communication signal between AV control unit and display unit.</li> </ul>  | <ul style="list-style-type: none"> <li>Display unit power supply and ground circuit.</li> <li>Communication circuit between AV control unit and display unit.</li> </ul>  |
| SAT Connection Error   | <ul style="list-style-type: none"> <li>Satellite radio tuner power supply and ground circuit malfunction is detected.</li> <li>Malfunction is detected in communication circuit between AV control unit and satellite radio tuner.</li> <li>Malfunction is detected in communication signal between AV control unit and satellite radio tuner.</li> <li>Malfunction is detected in request signal circuit between AV control unit and satellite radio tuner.</li> </ul> | <ul style="list-style-type: none"> <li>Satellite radio tuner power supply and ground circuit.</li> <li>Communication circuit between AV control unit and satellite radio tuner.</li> <li>Request signal circuit between AV control unit and satellite radio tuner.</li> </ul> |
| <ul style="list-style-type: none"> <li>AV COMM CIRCUIT</li> <li>Switches Connection Error</li> </ul> | <ul style="list-style-type: none"> <li>Multifunction switch power supply and ground circuit malfunction is detected.</li> <li>Malfunction is detected in AV communication circuit between AV control unit and multifunction switch.</li> <li>Malfunction is detected in AV communication signal between AV control unit and multifunction switch.</li> </ul>  | <ul style="list-style-type: none"> <li>Multifunction switch power supply and ground circuits.</li> <li>AV communication circuit between AV control unit and multifunction switch.</li> </ul>  |

## Vehicle CAN Diagnosis

- CAN communication status and error counter is displayed.
- The error counter displays "OK" if any malfunction was not detected in the past and displays "0" if a malfunction is detected. It increases by 1 if the condition is normal at the next ignition switch ON cycle. The upper limit of the counter is 39.
- The error counter is erased if reset.

| Items        | Display (Current) | Malfunction counter (Past) |
|--------------|-------------------|----------------------------|
| Tx (HVAC)    | OK / UNKWN        | OK / 0 – 39                |
| Rx (ECM)     | OK / UNKWN        | OK / 0 – 39                |
| Rx (Cluster) | OK / UNKWN        | OK / 0 – 39                |
| Rx (BCM)     | OK / UNKWN        | OK / 0 – 39                |
| Rx (HVAC)    | OK / UNKWN        | OK / 0 – 39                |
| Rx (USM)     | OK / UNKWN        | OK / 0 – 39                |



## AV COMM Diagnosis

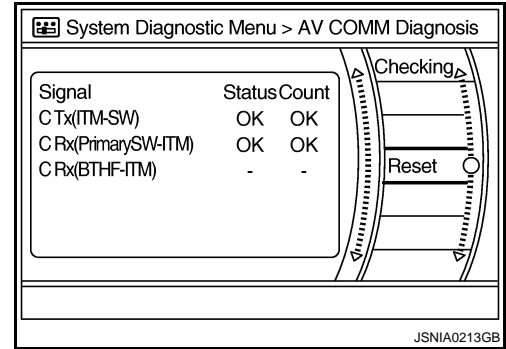
# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BASE AUDIO WITHOUT NAVIGATION]

## < SYSTEM DESCRIPTION >

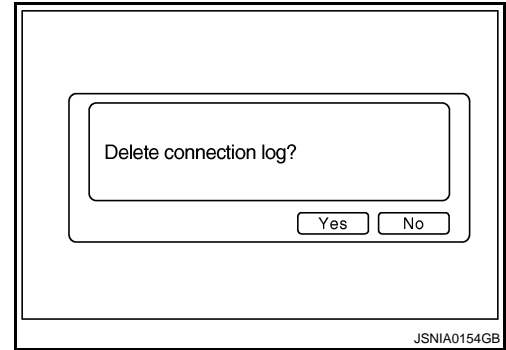
- Displays the communication status between AV control unit (master unit) and each unit.
- The error counter displays “OK” if any malfunction was not detected in the past and displays “0” if a malfunction is detected. It increases by 1 if the condition is normal at the next ignition switch ON cycle. The upper limit of the counter is 39.
- If it resets, the error counter is erased.

| Items                | Status (Current) | Counter (Past) |
|----------------------|------------------|----------------|
| C Tx (ITM-SW)        | OK / UNKWN       | OK / 0 - 39    |
| C Rx (PrimarySW-ITM) | OK / UNKWN       | OK / 0 - 39    |
| C Rx (XM-ITM)        | —                | —              |



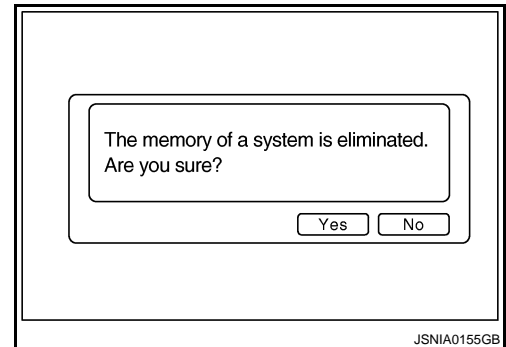
### Delete Unit Connection Log

Deletes any unit connection records and error records from the AV control unit memory. (Clear the records of the unit that has been removed)



### Initialize Settings

Initializes the AV control unit memory.



## CONSULT - III Function (MULTI AV)

INFOID:000000004238451

### CONSULT-III FUNCTIONS

CONSULT-III performs the following functions via the communication with the AV control unit.

| Diagnosis mode         | Description   |
|------------------------|---|
| Ecu Identification     | The part number of AV control unit can be checked.  |
| Self Diagnostic Result | Performs a diagnosis on the AV control unit and a connection diagnosis for the communication circuit of the Multi AV system, and displays the current and past malfunctions collectively. |
| Data Monitor           | The diagnosis of vehicle signal that is input to the AV control unit can be performed.  |

### AV COMMUNICATION

When “AV communication” of “CAN Diag Support Monitor” is selected, the following function will be performed.

|                  |             |   |
|------------------|-------------|---|
| AV communication | AV&NAVI C/U | Displays the communication status from AV control unit to each unit as well as the error counter. |
|                  | AUDIO       | Displays the AV control unit communication status and the error counter.                          |

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BASE AUDIO WITHOUT NAVIGATION]

< SYSTEM DESCRIPTION >

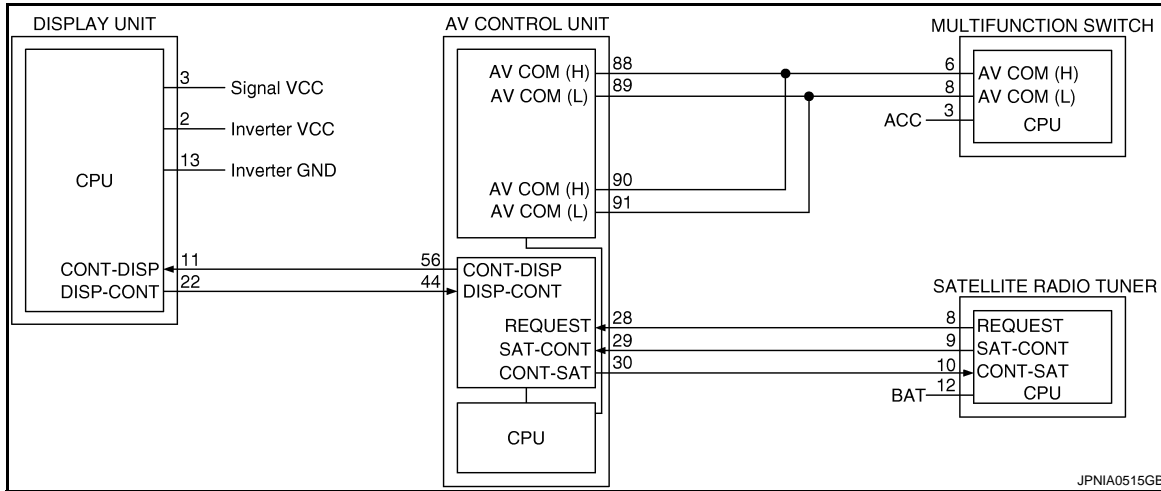
## ECU IDENTIFICATION

The part number of AV control unit is displayed.

## SELF DIAGNOSIS RESULT

- In CONSULT-III self-diagnosis, self-diagnosis results and error history are displayed collectively.
- The current malfunction indicates “CRNT”. The past malfunction indicates “PAST”.
- The timing is displayed as “0” if any of the error codes [U1000], [U1010], [U1300] and [U1310] is detected. The counter increases by 1 if the condition is normal at the next ignition switch ON cycle.

## Self-diagnosis Detection Range



## Self-diagnosis Results Display Item

| Error item                  | Description  | Possible malfunction factor/Action to take   |
|-----------------------------|--|--|
| CAN COMM CIRCUIT [U1000]    | CAN communication malfunction is detected.   | Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results.<br>Refer to <a href="#">AV-29, "Diagnosis Procedure"</a> .  |
| CONTROL UNIT (CAN) [U1010]  | CAN initial diagnosis malfunction is detected.   | Replace the AV control unit.   |
| CONTROL UNIT (AV) [U1310]   | AV communication circuit initial diagnosis malfunction is detected.  |  |
| Cont Unit FLASH-ROM [U1200] | AV control unit malfunction is detected.   |  |
| CAN CONT [U1216]            |  |  |
| FRONT DISP CONN [U1243]     | <ul style="list-style-type: none"> <li>• Display unit power supply and ground circuit malfunction is detected.</li> <li>• Malfunction is detected in communication circuit between AV control unit and display unit.</li> <li>• Malfunction is detected in communication signal between AV control unit and display unit.</li> </ul> | <ul style="list-style-type: none"> <li>• Display unit power supply and ground circuit.</li> <li>• Communication circuit between AV control unit and display unit.</li> </ul> |

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## DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BASE AUDIO WITHOUT NAVIGATION]

| Error item   | Description   | Possible malfunction factor/Action to take  |
|--|---|---|
| SAT CONN [U1255]   | <ul style="list-style-type: none"> <li>• Satellite radio tuner power supply and ground circuit malfunction is detected.</li> <li>• Malfunction is detected in communication circuit between AV control unit and satellite radio tuner.</li> <li>• Malfunction is detected in communication signal between AV control unit and satellite radio tuner.</li> <li>• Malfunction is detected in request signal circuit between AV control unit and satellite radio tuner.</li> </ul> | <ul style="list-style-type: none"> <li>• Satellite radio tuner power supply and ground circuit.</li> <li>• Communication circuit between AV control unit and satellite radio tuner.</li> <li>• Request signal circuit between AV control unit and satellite radio tuner.</li> </ul> |
| <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• SWITCH CONN [U1240]</li> </ul> | <ul style="list-style-type: none"> <li>• Multifunction switch power supply and ground circuit malfunction is detected.</li> <li>• Malfunction is detected in AV communication circuit between AV control unit and multifunction switch.</li> <li>• Malfunction is detected in AV communication signal between AV control unit and multifunction switch.</li> </ul>  | <ul style="list-style-type: none"> <li>• Multifunction switch power supply and ground circuits.</li> <li>• AV communication circuit between AV control unit and multifunction switch.</li> </ul>  |

### DATA MONITOR

#### ALL SIGNALS

- Displays the status of the following vehicle signals inputted into the AV control unit.
- For each signal, actual signal can be compared with the condition recognized on the system.

| Display Item | Display | Vehicle status                                   | Remarks   |   |
|--------------|---------|--|---|---|
| VHCL SPD SIG | On      | Vehicle speed >0 km/h (0 MPH)                    | Changes in indication may be delayed. This is normal. |   |
|              | Off     | Vehicle speed =0 km/h (0 MPH)                    |   |   |
| PKB SIG      | On      | Parking brake is applied.                        |   |   |
|              | Off     | Parking brake is released.                       |   |   |
| ILLUM SIG    | On      | Light switch ON                                  |   | — |
|              | Off     | Light switch OFF                                 |   |   |
| IGN SIG      | On      | Ignition switch ON                               |   |   |
|              | Off     | Ignition switch in ACC position                  |   |   |
| REV SIG      | On      | Shift the selector lever to "R" position         | Changes in indication may be delayed. This is normal. |   |
|              | Off     | Shift the selector lever other than "R" position |   |   |

#### SELECTION FROM MENU

Allows the technician to select which vehicle signals should be displayed and displays the status of the selected vehicle signals.

| Item to be selected | Description                                 |
|---------------------|---|
| VHCL SPD SIG        | The same as when "ALL SIGNALS" is selected. |
| PKB SIG             |   |
| ILLUM SIG           |   |
| IGN SIG             |   |
| REV SIG             |   |

## DTC/CIRCUIT DIAGNOSIS

### U1000 CAN COMM CIRCUIT

#### Description

INFOID:0000000004238452

CAN (Controller Area Network) is a serial communication line for real-time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independently). In CAN communication, control units are connected with 2 communication lines (CAN-H, CAN-L) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN Communication Signal Chart. Refer to [LAN-28, "CAN Communication Signal Chart"](#).

#### DTC Logic

INFOID:0000000004238453

#### DTC DETECTION LOGIC

| DTC   | Display contents of CONSULT-III | Diagnostic item is detected when ...   | Probable malfunction location |
|-------|---------------------------------|--|-------------------------------|
| U1000 | CAN COMM CIRCUIT                | AV control unit is not transmitting or receiving CAN communication signal for 2 seconds or more. | CAN communication system.     |

#### Diagnosis Procedure

INFOID:0000000004238454

#### 1. PERFORM SELF-DIAGNOSTIC

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Check "Self Diagnostic Result" of "MULTI AV".

Is "CAN COMM CIRCUIT" displayed?

- YES >> Refer to "LAN system". Refer to [LAN-19, "Trouble Diagnosis Flow Chart"](#).  
 NO >> Refer to GI section. Refer to [GI-41, "Intermittent Incident"](#).

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AV

# U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## U1010 CONTROL UNIT (CAN)

### Description

INFOID:000000004238455

Initial diagnosis of AV control unit.

### DTC Logic

INFOID:000000004238456

### DTC DETECTION LOGIC

| DTC   | Display contents of CONSULT-III | Diagnostic item is detected when ...           | Probable malfunction location |
|-------|---------------------------------|--|-------------------------------|
| U1010 | CONTROL UNIT (CAN)              | CAN initial diagnosis malfunction is detected. | AV control unit.              |

### Diagnosis Procedure

INFOID:000000004238457

#### 1. REPLACE AV CONTROL UNIT

When DTC U1010 is detected, replace AV control unit.

>> INSPECTION END

# U1310 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## U1310 AV CONTROL UNIT

### Description

INFOID:000000004238458

Replace the AV control unit if this DTC is displayed. Refer to [AV-114. "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"><li>• It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li><li>• AV control unit includes audio function and vehicle information function.</li><li>• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li><li>• It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li><li>• It inputs the illumination signals that are required for the display dimming control.</li><li>• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li><li>• Auxiliary image signal is input from the auxiliary input jacks.</li></ul> |

### DTC Logic

INFOID:000000004238459

| DTC   | Display contents of CONSULT-III | DTC Detection Condition   | Action to take           |
|-------|---------------------------------|---|--------------------------|
| U1310 | CONTROL UNIT (AV) [U1310]       | An initial diagnosis error is detected in AV communication circuit. | Replace AV control unit. |

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AV

# U1200 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## U1200 AV CONTROL UNIT

### Description

INFOID:000000004238460

Replace the AV control unit if this DTC is displayed. Refer to [AV-114. "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"><li>• It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li><li>• AV control unit includes audio function and vehicle information function.</li><li>• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li><li>• It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li><li>• It inputs the illumination signals that are required for the display dimming control.</li><li>• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li><li>• Auxiliary image signal is input from the auxiliary input jacks.</li></ul> |

### DTC Logic

INFOID:000000004238461

| DTC   | Display contents of CONSULT-III    | DTC Detection Condition   | Action to take           |
|-------|------------------------------------|---|--------------------------|
| U1200 | Cont Unit<br>FLASH- ROM<br>[U1200] | An internal malfunction is detected in AV control unit (FLASH-ROM). | Replace AV control unit. |



# U1216 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## U1216 AV CONTROL UNIT

### Description

INFOID:000000004238462

Replace the AV control unit if this DTC is displayed. Refer to [AV-114. "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"><li>• It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li><li>• AV control unit includes audio function and vehicle information function.</li><li>• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li><li>• It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li><li>• It inputs the illumination signals that are required for the display dimming control.</li><li>• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li><li>• Auxiliary image signal is input from the auxiliary input jacks.</li></ul> |

### DTC Logic

INFOID:000000004238463

| DTC   | Display contents of CONSULT-III | DTC Detection Condition   | Action to take           |
|-------|---------------------------------|---|--------------------------|
| U1216 | CAN CONT [U1216]                | Internal malfunction of AV control unit (CAN controller) is detected. | Replace AV control unit. |

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# U1243 DISPLAY UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## U1243 DISPLAY UNIT

### Description

INFOID:000000004238464

| Part name    | Description   |
|--------------|---|
| DISPLAY UNIT | <ul style="list-style-type: none"><li>• Display image is controlled by the serial communication from AV control unit.</li><li>• Inputs the RGB image signal (RGB, RGB area and RGB synchronizing) from AV control unit and the auxiliary image signal from the auxiliary input jacks.</li><li>• Outputs the synchronizing signals (HP and VP) to the AV control unit.</li></ul> |

### DTC Logic

INFOID:000000004238465

| DTC   | Display contents of CONSULT-III | DTC Detection Condition  | Possible causes   |
|-------|---------------------------------|--|---|
| U1243 | FRONT DISP CONN [U1243]         | <ul style="list-style-type: none"><li>• Display unit power supply and ground circuit malfunction is detected.</li><li>• Malfunction is detected in communication circuit between AV control unit and display unit.</li><li>• Malfunction is detected in communication signal between AV control unit and display unit.</li></ul> | <ul style="list-style-type: none"><li>• Display unit power supply and ground circuit.</li><li>• Communication circuit between AV control unit and display unit.</li></ul> |

### Diagnosis Procedure

INFOID:000000004460709

#### 1. CHECK DISPLAY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check display unit power supply and ground circuit. Refer to [AV-39, "DISPLAY UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

#### 2. CHECK CONTINUITY COMMUNICATION CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |           | AV control unit |           | Continuity |
|--------------|-----------|-----------------|-----------|------------|
| Connector    | Terminals | Connector       | Terminals |            |
| M71          | 11        | M83             | 56        | Existed    |
|              | 22        |                 | 44        |            |

4. Check continuity between display unit harness connector and ground.

| Display unit |           | Ground | Continuity  |
|--------------|-----------|--------|-------------|
| Connector    | Terminals |        |             |
| M71          | 11        |        | Not existed |
|              | 22        |        |             |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

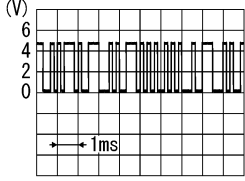
#### 3. CHECK COMMUNICATION SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

# U1243 DISPLAY UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

| (+)          |          | (-)    | Condition                          | Reference value  |
|--------------|----------|--------|------------------------------------|--|
| Display unit |          |        |                                    |  |
| Connector    | Terminal |        |                                    |  |
| M71          | 11       | Ground | When adjusting display brightness. |  <p>PKIB5039J</p> |

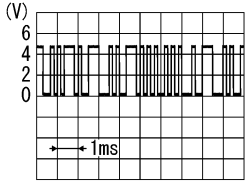
Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

## 4. CHECK COMMUNICATION SIGNAL

Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Condition                          | Reference value   |
|--------------|----------|--------|------------------------------------|---|
| Display unit |          |        |                                    |   |
| Connector    | Terminal |        |                                    |   |
| M71          | 22       | Ground | When adjusting display brightness. |  <p>PKIB5039J</p> |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace display unit.

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AV

# U1255 SATELLITE RADIO TUNER

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## U1255 SATELLITE RADIO TUNER

### Description

INFOID:000000004238467

| Part name             | Description  |
|-----------------------|--|
| SATELLITE RADIO TUNER | <ul style="list-style-type: none"><li>Inputs the satellite radio signal from satellite radio antenna and outputs it to the AV control unit.</li><li>It is controlled with the communication (communication signal, request signal) from AV control unit.</li></ul> |

### DTC Logic

INFOID:000000004238468

| DTC   | Display contents of CONSULT-III | DTC Detection Condition  | Possible causes   |
|-------|---------------------------------|--|---|
| U1255 | SAT CONN [U1255]                | <ul style="list-style-type: none"><li>Satellite radio tuner power supply and ground circuit malfunction is detected.</li><li>Malfunction is detected in communication circuit between AV control unit and satellite radio tuner.</li><li>Malfunction is detected in communication signal between AV control unit and satellite radio tuner.</li><li>Malfunction is detected in request signal circuit between AV control unit and satellite radio tuner.</li></ul> | <ul style="list-style-type: none"><li>Satellite radio tuner power supply and ground circuit.</li><li>Communication circuit between AV control unit and satellite radio tuner.</li><li>Request signal circuit between AV control unit and satellite radio tuner.</li></ul> |

### Diagnosis Procedure

INFOID:000000004460216

#### 1. CHECK SATELLITE RADIO TUNER POWER SUPPLY AND GROUND CIRCUIT

Check satellite radio tuner power supply and ground circuit. Refer to [AV-41, "SATELLITE RADIO TUNER : Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair malfunctioning parts.

#### 2. CHECK CONTINUITY COMMUNICATION CIRCUIT AND REQUEST SIGNAL CIRCUIT

- Turn ignition switch OFF.
- Disconnect AV control unit connector and satellite radio tuner connector.
- Check continuity between AV control unit harness connector and satellite radio tuner harness connector.

| AV control unit |           | Satellite radio tuner |           | Continuity |
|-----------------|-----------|-----------------------|-----------|------------|
| Connector       | Terminals | Connector             | Terminals |            |
| M82             | 28        | B236                  | 8         | Existed    |
|                 | 29        |                       | 9         |            |
|                 | 30        |                       | 10        |            |

- Check continuity between AV control unit harness connector and ground.

| AV control unit |           | Ground | Continuity  |
|-----------------|-----------|--------|-------------|
| Connector       | Terminals |        |             |
| M82             | 28        |        | Not existed |
|                 | 29        |        |             |
|                 | 30        |        |             |

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Repair harness or connector.

# U1255 SATELLITE RADIO TUNER

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## 3. CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between AV control unit harness connector and ground.

| (+)             |           | (-)    | Reference value<br>(Approx.) |
|-----------------|-----------|--------|------------------------------|
| AV control unit |           |        |                              |
| Connector       | Terminals |        |                              |
| M82             | 28        | Ground |                              |
|                 | 29        | Ground |                              |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

## 4. CHECK SATELLITE RADIO TUNER

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector.
3. Connect satellite radio tuner.
4. Turn ignition switch ON.
5. Check signal between satellite radio tuner harness connector and ground.

| (+)                   |          | (-)    | Reference value<br>(Approx.) |
|-----------------------|----------|--------|------------------------------|
| Satellite radio tuner |          |        |                              |
| Connector             | Terminal |        |                              |
| B236                  | 10       | Ground |                              |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace satellite radio tuner.

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AV

# U1300 AV COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## U1300 AV COMM CIRCUIT

### Description

INFOID:000000004238470

U1300 is indicated when malfunction occurs in communication signal of multi AV system. Indicated simultaneously, without fail, with the malfunction of control units connected to AV control unit with communication line. Determine the possible malfunction cause from the table below.

### SELF-DIAGNOSIS RESULTS DISPLAY ITEM

| DTC            | Display contents of CONSULT-III   | DTC Detection Condition  | Possible causes   |
|----------------|---|--|---|
| U1300<br>U1240 | <ul style="list-style-type: none"><li>• AV COMM CIRCUIT [U1300]</li><li>• SWITCH CONN [U1240]</li></ul> | <ul style="list-style-type: none"><li>• Multifunction switch power supply and ground circuit malfunction is detected.</li><li>• Malfunction is detected in AV communication circuit between AV control unit and multifunction switch.</li><li>• Malfunction is detected in AV communication signal between AV control unit and multifunction switch.</li></ul> | <ul style="list-style-type: none"><li>• Multifunction switch power supply and ground circuits.</li><li>• AV communication circuit between AV control unit and multifunction switch.</li></ul> |

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## POWER SUPPLY AND GROUND CIRCUIT

### AV CONTROL UNIT

#### AV CONTROL UNIT : Diagnosis Procedure

INFOID:000000004238471

#### 1.CHECK FUSE

Check for blown fuses.

| Power source                | Fuse No. |
|-----------------------------|----------|
| Battery                     | 34       |
| Ignition switch ACC or ON   | 19       |
| Ignition switch ON or START | 3        |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

#### 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between AV control unit harness connectors and ground.

| Signal name          | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|----------------------|---------------|--------------|--------------------------|-----------------|
| Battery power supply | M81           | 19           | OFF                      | Battery voltage |
| ACC power supply     | M81           | 7            | ACC                      | Battery voltage |
| Ignition signal      | M85           | 104          | ON                       | Battery voltage |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between AV control unit and fuse.

#### 3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect AV control unit connectors.
3. Check continuity between AV control unit harness connectors and ground.

| Signal name | Connector No. | Terminal No. | Ignition switch position | Continuity |
|-------------|---------------|--------------|--------------------------|------------|
| Ground      | M81           | 20           | OFF                      | Existed    |
|             | M85           | 85           |                          |            |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

## DISPLAY UNIT

#### DISPLAY UNIT : Diagnosis Procedure

INFOID:000000004238472

#### 1.CHECK POWER SUPPLY CIRCUIT (DISPLAY SIDE)

Check voltage between display unit harness connector and ground.

| Signal name  | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|--------------|---------------|--------------|--------------------------|-----------------|
| Inverter VCC | M71           | 2            | ACC                      | 9 V             |
| Signal VCC   |               | 3            |                          |                 |

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

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# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## 2.CHECK POWER SUPPLY CIRCUIT (CONTINUITY)

1. Turn ignition switch OFF.
2. Disconnect the harness connector between display unit and AV control unit.
3. Check continuity between display unit harness connector M71 and AV control unit harness connector M83.

| Signal name  | Display unit (M71) | AV control unit (M83) | Continuity |
|--------------|--------------------|-----------------------|------------|
| Inverter VCC | 2                  | 59                    | Existed    |
| Signal VCC   | 3                  | 47                    | Existed    |

4. Check continuity between display unit harness connector M71 and ground.

| Signal name  | Display unit (M71) | —      | Continuity  |
|--------------|--------------------|--------|-------------|
| Inverter VCC | 2                  | Ground | Not existed |
| Signal VCC   | 3                  | Ground | Not existed |

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Repair harness or connector.

## 3.CHECK POWER SUPPLY CIRCUIT (AV CONTROL UNIT SIDE)

1. Connect the AV control unit harness connector.
2. Turn ignition switch ACC.
3. Check voltage between AV control unit harness connector and ground.

| Signal name  | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|--------------|---------------|--------------|--------------------------|-----------------|
| Inverter VCC | M83           | 59           | ACC                      | 9 V             |
| Signal VCC   |               | 47           |                          |                 |

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replacement of AV control unit.

## 4.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector.
3. Check continuity between display unit harness connectors and ground.

| Signal name | Connector No. | Terminal No. | Ignition switch position | Continuity |
|-------------|---------------|--------------|--------------------------|------------|
| Ground      | M71           | 1            | OFF                      | Existed    |

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Repair harness or connector.

## MULTIFUNCTION SWITCH

### MULTIFUNCTION SWITCH : Diagnosis Procedure

INFOID:000000004238473

## 1.CHECK FUSE

Check for blown fuses.

| Power source              | Fuse No. |
|---------------------------|----------|
| Ignition switch ACC or ON | 19       |

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Be sure to eliminate cause of malfunction before installing new fuse.



# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between multifunction switch harness connector and ground.

| Signal name      | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|------------------|---------------|--------------|--------------------------|-----------------|
| ACC power supply | M72           | 3            | ACC                      | Battery voltage |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between multifunction switch and fuse.

## 3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect multifunction switch connector.
3. Check continuity between multifunction switch harness connector and ground.

| Signal name | Connector No. | Terminal No. | Ignition switch position | Continuity |
|-------------|---------------|--------------|--------------------------|------------|
| Ground      | M72           | 1            | OFF                      | Existed    |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

## SATELLITE RADIO TUNER

### SATELLITE RADIO TUNER : Diagnosis Procedure

INFOID:000000004238474

## 1.CHECK FUSE

Check for blown fuses.

| Power source              | Fuse No. |
|---------------------------|----------|
| Battery                   | 34       |
| Ignition switch ACC or ON | 19       |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

## 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between satellite radio tuner harness connector and ground.

| Signal name          | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|----------------------|---------------|--------------|--------------------------|-----------------|
| Battery power supply | B236          | 12           | OFF                      | Battery voltage |
| ACC power supply     | B236          | 16           | ACC                      | Battery voltage |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Check harness between satellite radio tuner and fuse.

# RGB (R: RED) SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## RGB (R: RED) SIGNAL CIRCUIT

### Description

INFOID:000000004238475

Transmit the image displayed with AV control unit with RGB signal to the display unit.

### Diagnosis Procedure

INFOID:000000004460197

#### 1. CHECK CONTINUITY RGB (R: RED) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M71          | 17       | M83             | 40       | Existed    |

4. Check continuity between display unit harness connector and ground.

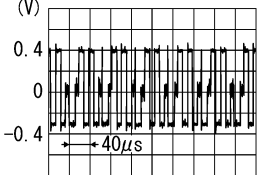
| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M71          | 17       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> Repair harness or connector.

#### 2. CHECK RGB (R: RED) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Condition   | Reference value  |
|--------------|----------|--------|---|--|
| Display unit |          |        |   |  |
| Connector    | Terminal |        |   |  |
| M71          | 17       | Ground | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen. |  <p>(V)</p> <p>0.4</p> <p>0</p> <p>-0.4</p> <p>40µs</p> <p>SKIB2238J</p> |

Is the inspection result normal?

- YES >> Replace display unit.  
 NO >> Replace AV control unit.

# RGB (G: GREEN) SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## RGB (G: GREEN) SIGNAL CIRCUIT

### Description

INFOID:000000004238477

Transmit the image displayed with AV control unit with RGB signal to the display unit.

### Diagnosis Procedure

INFOID:000000004460198

#### 1. CHECK CONTINUITY RGB (G: GREEN) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M71          | 6        | M83             | 39       | Existed    |

4. Check continuity between display unit harness connector and ground.

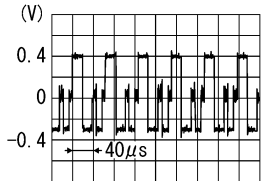
| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M71          | 6        |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> Repair harness or connector.

#### 2. CHECK RGB (G: GREEN) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Condition   | Reference value  |
|--------------|----------|--------|---|--|
| Display unit |          |        |   |  |
| Connector    | Terminal |        |   |  |
| M71          | 6        | Ground | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen. |  <p>(V)</p> <p>0.4</p> <p>0</p> <p>-0.4</p> <p>40µs</p> <p>SKIB2236J</p> |

Is the inspection result normal?

- YES >> Replace display unit.  
 NO >> Replace AV control unit.

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# RGB (B: BLUE) SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## RGB (B: BLUE) SIGNAL CIRCUIT

### Description

INFOID:000000004238479

Transmit the image displayed with AV control unit with RGB signal to the display unit.

### Diagnosis Procedure

INFOID:000000004460199

#### 1. CHECK CONTINUITY RGB (B: BLUE) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M71          | 18       | M83             | 38       | Existed    |

4. Check continuity between display unit harness connector and ground.

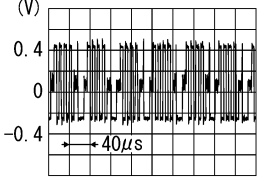
| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M71          | 18       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> Repair harness or connector.

#### 2. CHECK RGB (B: BLUE) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Condition   | Reference value  |
|--------------|----------|--------|---|--|
| Display unit |          |        |   |  |
| Connector    | Terminal |        |   |  |
| M71          | 18       | Ground | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen. |  <p>(V)</p> <p>0.4</p> <p>0</p> <p>-0.4</p> <p>40µs</p> <p>SKIB2237J</p> |

Is the inspection result normal?

- YES >> Replace display unit.  
 NO >> Replace AV control unit.

# RGB SYNCHRONIZING SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## RGB SYNCHRONIZING SIGNAL CIRCUIT

### Description

INFOID:000000004238481

Transmit the RGB synchronizing signal to the display unit so as to synchronize the RGB image displayed with AV control unit.

### Diagnosis Procedure

INFOID:000000004460200

#### 1. CHECK CONTINUITY RGB SYNCHRONIZING SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M71          | 19       | M83             | 41       | Existed    |

4. Check continuity between display unit harness connector and ground.

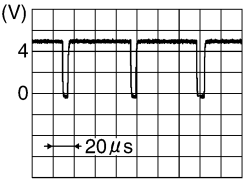
| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M71          | 19       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> Repair harness or connector.

#### 2. CHECK RGB SYNCHRONIZING SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Reference value   |
|--------------|----------|--------|---|
| Display unit |          |        |   |
| Connector    | Terminal |        |   |
| M71          | 19       | Ground |  <p style="text-align: right; font-size: small;">SKIB3603E</p> |

Is the inspection result normal?

- YES >> Replace display unit.  
 NO >> Replace AV control unit.

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# RGB AREA (YS) SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## RGB AREA (YS) SIGNAL CIRCUIT

### Description

INFOID:000000004238483

Transmits the display area of RGB image displayed by AV control unit with RGB area (YS) signal to display unit.

### Diagnosis Procedure

INFOID:000000004460201

#### 1. CHECK CONTINUITY RGB AREA (YS) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M71          | 9        | M83             | 43       | Existed    |

4. Check continuity between display unit harness connector and ground.

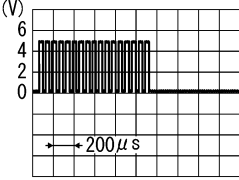
| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M71          | 9        |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> Repair harness or connector.

#### 2. CHECK RGB AREA (YS) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)       |          | (-)    | Condition                  | Reference value (Approx.)  |
|-----------|----------|--------|----------------------------|--|
| Connector | Terminal |        |                            |  |
| M71       | 9        | Ground | At RGB image displayed     | 5 V  |
|           |          |        | At AUX image is displayed. |  <p style="text-align: right; font-size: small;">PKIB4948J</p> |

Is the inspection result normal?

- YES >> Replace display unit.  
 NO >> Replace AV control unit.

# HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

### Description

INFOID:000000004238485

In composite image (AUX image, camera image), transmit the vertical synchronizing (VP) signal and horizontal synchronizing (HP) signal from display unit to AV control unit so as to synchronize the RGB images displayed with AV control unit such as the image quality adjusting menu, etc.

### Diagnosis Procedure

INFOID:000000004460202

#### 1. CHECK CONTINUITY HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M71          | 8        | M83             | 45       | Existed    |

4. Check continuity between display unit harness connector and ground.

| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M71          | 8        |        | Not existed |

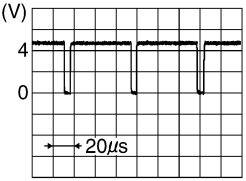
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2. CHECK HORIZONTAL SYNCHRONIZING (HP) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Reference value  |
|--------------|----------|--------|--|
| Display unit |          |        |  |
| Connector    | Terminal |        |  |
| M71          | 8        | Ground |  <p>SKIB3601E</p> |

Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace display unit.

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# VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

### Description

INFOID:000000004238487

In composite image (AUX image, camera image), transmit the vertical synchronizing (VP) signal and horizontal synchronizing (HP) signal from display unit to AV control unit so as to synchronize the RGB images displayed with AV control unit such as the image quality adjusting menu, etc.

### Diagnosis Procedure

INFOID:000000004460203

#### 1. CHECK CONTINUITY VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M71          | 20       | M83             | 57       | Existed    |

4. Check continuity between display unit harness connector and ground.

| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M71          | 20       |        | Not existed |

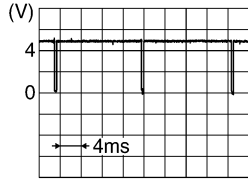
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2. CHECK VERTICAL SYNCHRONIZING (VP) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Reference value  |
|--------------|----------|--------|--|
| Display unit |          |        |  |
| Connector    | Terminal |        |  |
| M71          | 20       | Ground |  <p>SKIB3598E</p> |

Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace display unit.



# AUX IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## AUX IMAGE SIGNAL CIRCUIT

### Description

INFOID:000000004238489

- Transmits the image signal of AUX device from auxiliary input jacks to AV control unit.
- AV control unit transmits the image signal that is inputted to the display unit.

### Diagnosis Procedure

INFOID:000000004460764

#### 1. CHECK CONTINUITY AUX IMAGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect auxiliary input jacks connector and AV control unit connector.
3. Check continuity between auxiliary input jacks harness connector and AV control unit harness connector.

| Auxiliary input jacks |          | AV control unit |          | Continuity |
|-----------------------|----------|-----------------|----------|------------|
| Connector             | Terminal | Connector       | Terminal |            |
| M154 <sup>*1</sup>    | 7        | M84             | 66       | Existed    |
| M362 <sup>*2</sup>    |          |                 |          |            |

- \*1: A/T models
- \*2: M/T models

4. Check continuity between auxiliary input jacks harness connector and ground.

| Auxiliary input jacks |          | Ground | Continuity  |
|-----------------------|----------|--------|-------------|
| Connector             | Terminal |        |             |
| M154 <sup>*1</sup>    | 7        | Ground | Not existed |
| M362 <sup>*2</sup>    |          |        |             |

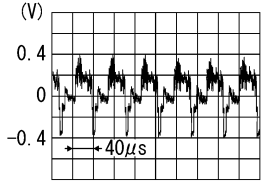
- \*1: A/T models
- \*2: M/T models

#### Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> Repair harness or connector.

#### 2. CHECK AUX IMAGE SIGNAL

1. Connect auxiliary input jacks connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between auxiliary input jacks harness connector and ground.

| (+)                |          | (-)    | Condition               | Reference value  |
|--------------------|----------|--------|-------------------------|--|
| Connector          | Terminal |        |                         |  |
| M154 <sup>*1</sup> | 7        | Ground | At AUX image displayed. |  <p>(V)</p> <p>0.4</p> <p>0</p> <p>-0.4</p> <p>40µs</p> <p>SKIB2251J</p> |
| M362 <sup>*2</sup> |          |        |                         |  |

- \*1: A/T models
- \*2: M/T models

#### Is the inspection result normal?

- YES >> GO TO 3.  
 NO >> Check that there is no malfunction in the external device.

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# AUX IMAGE SIGNAL CIRCUIT

[BASE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

## 3. CHECK CONTINUITY AUX IMAGE SIGNAL CIRCUIT (AV CONTROL UNIT AND DISPLAY UNIT)

1. Turn ignition switch OFF.
2. Disconnect auxiliary input jacks connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M71          | 15       | M83             | 36       | Existed    |

4. Check continuity between display unit harness connector and ground.

| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M71          | 15       |        | Not existed |

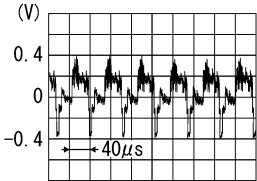
Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

## 4. CHECK AUX IMAGE SIGNAL

1. Connect AV control unit connector and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Condition               | Reference value  |
|--------------|----------|--------|-------------------------|--|
| Display unit |          |        |                         |  |
| Connector    | Terminal |        |                         |  |
| M71          | 15       | Ground | At AUX image displayed. |  <p style="text-align: right; font-size: small;">SKIB2251J</p> |

Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

# CD EJECT SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## CD EJECT SIGNAL CIRCUIT

### Description

INFOID:000000004238491

The eject signal is output to AV control unit when the eject switch of multifunction switch is pressed.

### Diagnosis Procedure

INFOID:000000004460205

#### 1. CHECK CONTINUITY CD EJECT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect multifunction switch connector and AV control unit connector.
3. Check continuity between multifunction switch harness connector and AV control unit harness connector.

| Multifunction switch |          | AV control unit |          | Continuity |
|----------------------|----------|-----------------|----------|------------|
| Connector            | Terminal | Connector       | Terminal |            |
| M72                  | 14       | M85             | 103      | Existed    |

4. Check continuity between multifunction switch harness connector and ground.

| Multifunction switch |          | Ground | Continuity  |
|----------------------|----------|--------|-------------|
| Connector            | Terminal |        |             |
| M72                  | 14       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair harness or connector.

#### 2. CHECK AV CONTROL UNIT VOLTAGE

1. Connect multifunction switch connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector and ground.

| (+)             |          | (-)    | Condition                 | Voltage (Approx.) |
|-----------------|----------|--------|---------------------------|-------------------|
| AV control unit |          |        |                           |                   |
| Connector       | Terminal |        |                           |                   |
| M85             | 103      | Ground | Pressing the eject switch | 0 V               |
|                 |          |        | Except for above          | 3.3 V             |

Is the inspection result normal?

- YES >> Replace preset switch.  
NO >> Replace AV control unit.

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# COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)

### Description

INFOID:000000004238493

Satellite radio tuner and AV control unit are connected with a serial communication. They transmit the operation signal from AV control unit to satellite radio tuner, and transmit the display signal from satellite radio tuner to AV control unit.

### Diagnosis Procedure

INFOID:000000004460206

#### 1. CHECK CONTINUITY COMMUNICATION SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect satellite radio tuner connector and AV control unit connector.
3. Check continuity between satellite radio tuner harness connector and AV control unit harness connector.

| Satellite radio tuner |           | AV control unit |           | Continuity |
|-----------------------|-----------|-----------------|-----------|------------|
| Connector             | Terminals | Connector       | Terminals |            |
| B236                  | 9         | M82             | 29        | Existed    |
|                       | 10        |                 | 30        |            |

4. Check continuity between satellite radio tuner harness connector and ground.

| Satellite radio tuner |           | Ground | Continuity  |
|-----------------------|-----------|--------|-------------|
| Connector             | Terminals |        |             |
| B236                  | 9         |        | Not existed |
|                       | 10        |        |             |

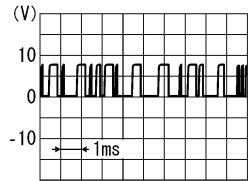
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2. CHECK COMMUNICATION SIGNAL

1. Connect satellite radio tuner connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between satellite radio tuner harness connector and ground.

| (+) Satellite radio tuner |          | (-)    | Condition                              | Reference value  |
|---------------------------|----------|--------|--|--|
| Connector                 | Terminal |        |  |  |
| B236                      | 9        | Ground | When satellite radio mode is selected. |  |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace satellite radio tuner.

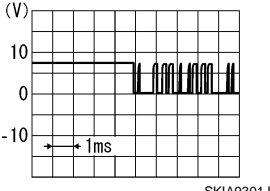
#### 3. CHECK COMMUNICATION SIGNAL

Check signal between satellite radio tuner harness connector and ground.

# COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

| (+)                   |          | (-)    | Condition                              | Reference value  |
|-----------------------|----------|--------|--|--|
| Satellite radio tuner |          |        |  |  |
| Connector             | Terminal |        |  |  |
| B236                  | 10       | Ground | When satellite radio mode is selected. |  |

Is the inspection result normal?

- YES >> Replace satellite radio tuner.
- NO >> Replace AV control unit.

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# REQUEST SIGNAL CIRCUIT (SAT→CONT)

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## REQUEST SIGNAL CIRCUIT (SAT→CONT)

### Description

INFOID:000000004238495

Request signal transmits the signal to recognize the connection of satellite radio tuner from satellite radio tuner to AV control unit.

### Diagnosis Procedure

INFOID:000000004460207

#### 1. CHECK CONTINUITY REQUEST SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect satellite radio tuner connector and AV control unit connector.
3. Check continuity between satellite radio tuner unit harness connector and AV control unit harness connector.

| Satellite radio tuner |          | AV control unit |          | Continuity |
|-----------------------|----------|-----------------|----------|------------|
| Connector             | Terminal | Connector       | Terminal |            |
| B236                  | 8        | M82             | 28       | Existed    |

4. Check continuity between satellite radio tuner harness connector and ground.

| Satellite radio tuner |          | Ground | Continuity  |
|-----------------------|----------|--------|-------------|
| Connector             | Terminal |        |             |
| B236                  | 8        |        | Not existed |

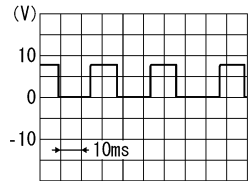
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2. CHECK COMMUNICATION SIGNAL

1. Connect satellite radio tuner connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between satellite radio tuner harness connector and ground.

| (+) Satellite radio tuner |          | (-)    | Condition                              | Reference value  |
|---------------------------|----------|--------|--|--|
| Connector                 | Terminal |        |  |  |
| B236                      | 8        | Ground | When satellite radio mode is selected. |  <p>(V)</p> <p>10</p> <p>0</p> <p>-10</p> <p>10ms</p> <p>SKIA9299J</p> |

Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace satellite radio tuner.

# STEERING SWITCH SIGNAL A CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## STEERING SWITCH SIGNAL A CIRCUIT

### Description

INFOID:000000004238497

Transmits the steering switch signal to AV control unit.

### Diagnosis Procedure

INFOID:000000004460208

#### 1. CHECK STEERING SWITCH SIGNAL A CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector and spiral cable harness connector.

| AV control unit |          | Spiral cable |          | Continuity |
|-----------------|----------|--------------|----------|------------|
| Connector       | Terminal | Connector    | Terminal |            |
| M81             | 6        | M36          | 24       | Existed    |

3. Check continuity between AV control unit harness connector and ground.

| AV control unit |          | Ground | Continuity  |
|-----------------|----------|--------|-------------|
| Connector       | Terminal |        |             |
| M81             | 6        |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> Repair harness or connector.

#### 2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

- YES >> GO TO 3.  
 NO >> Replace spiral cable.

#### 3. CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector and spiral cable connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector.

| (+)             |          | (-)             |          | Voltage (Approx.) |
|-----------------|----------|-----------------|----------|-------------------|
| AV control unit |          | AV control unit |          |                   |
| Connector       | Terminal | Connector       | Terminal |                   |
| M81             | 6        | M81             | 15       | 3.3 V             |

Is the inspection result normal?

- YES >> GO TO 4.  
 NO >> Replace AV control unit.

#### 4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-55, "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
 NO >> Replace steering switch.

### Component Inspection

INFOID:000000004238499

Measure the resistance between the steering switch connector terminals 14 to 17 and 15 to 17.

A  
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AV

# STEERING SWITCH SIGNAL A CIRCUIT

[BASE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

Standard

Between terminals 14 and 17

MENU DOWN switch ON : 318 – 324 Ω

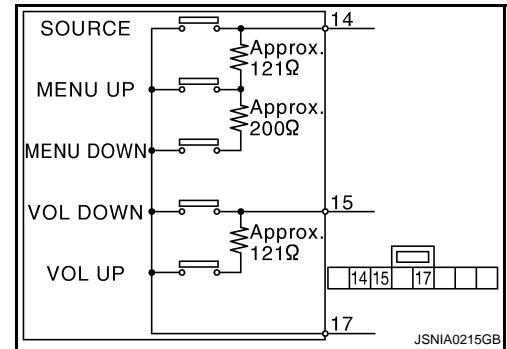
MENU UP switch ON : 120 – 122 Ω

SOURCE switch ON : 0 Ω

Between terminals 15 and 17

VOL UP switch ON : 120 – 122 Ω

VOL DOWN switch ON : 0 Ω





# STEERING SWITCH SIGNAL B CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## STEERING SWITCH SIGNAL B CIRCUIT

### Description

INFOID:000000004238500

Transmits the steering switch signal to AV control unit.

### Diagnosis Procedure

INFOID:000000004460209

#### 1. CHECK STEERING SWITCH SIGNAL B CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector and spiral cable harness connector.

| AV control unit |          | Spiral cable |          | Continuity |
|-----------------|----------|--------------|----------|------------|
| Connector       | Terminal | Connector    | Terminal |            |
| M81             | 16       | M36          | 31       | Existed    |

3. Check continuity between AV control unit harness connector and ground.

| AV control unit |          | Ground | Continuity  |
|-----------------|----------|--------|-------------|
| Connector       | Terminal |        |             |
| M81             | 16       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair harness or connector.

#### 2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Replace spiral cable.

#### 3. CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector and spiral cable connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector.

| (+)             |          | (-)             |          | Voltage (Approx.) |
|-----------------|----------|-----------------|----------|-------------------|
| AV control unit |          | AV control unit |          |                   |
| Connector       | Terminal | Connector       | Terminal |                   |
| M81             | 16       | M81             | 15       | 3.3 V             |

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Replace AV control unit.

#### 4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-57, "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace steering switch.

### Component Inspection

INFOID:000000004238502

Measure the resistance between the steering switch connector terminals 14 to 17 and 15 to 17.

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AV

# STEERING SWITCH SIGNAL B CIRCUIT

[BASE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

Standard

Between terminals 14 and 17

MENU DOWN switch ON : 318 – 324  $\Omega$

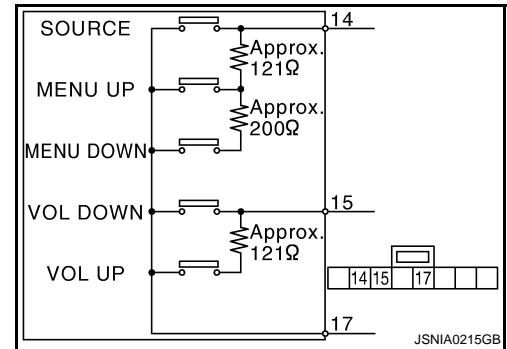
MENU UP switch ON : 120 – 122  $\Omega$

SOURCE switch ON : 0  $\Omega$

Between terminals 15 and 17

VOL UP switch ON : 120 – 122  $\Omega$

VOL DOWN switch ON : 0  $\Omega$



# STEERING SWITCH SIGNAL GND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## STEERING SWITCH SIGNAL GND CIRCUIT

### Description

INFOID:000000004238503

Transmits the steering switch signal to AV control unit.

### Diagnosis Procedure

INFOID:000000004460210

#### 1.CHECK STEERING SWITCH SIGNAL GND CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector and spiral cable harness connector.

| AV control unit |          | Spiral cable |          | Continuity |
|-----------------|----------|--------------|----------|------------|
| Connector       | Terminal | Connector    | Terminal |            |
| M81             | 15       | M36          | 33       | Existed    |

3. Connect AV control unit connector.

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair harness or connector.

#### 2.CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Replace spiral cable.

#### 3.CHECK GROUND CIRCUIT

1. Connect AV control unit connector.
2. Check continuity between AV control unit harness connector and ground.

| AV control unit |          | Ground | Continuity  |
|-----------------|----------|--------|-------------|
| Connector       | Terminal |        |             |
| M81             | 15       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Replace AV control unit.

#### 4.CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-59, "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace steering switch.

### Component Inspection

INFOID:000000004238505

Measure the resistance between the steering switch connector terminals 14 to 17 and 15 to 17.

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AV

# STEERING SWITCH SIGNAL GND CIRCUIT

[BASE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

Standard

Between terminals 14 and 17

MENU DOWN switch ON : 318 – 324  $\Omega$

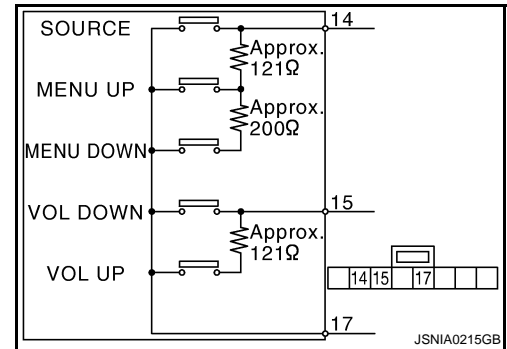
MENU UP switch ON : 120 – 122  $\Omega$

SOURCE switch ON : 0  $\Omega$

Between terminals 15 and 17

VOL UP switch ON : 120 – 122  $\Omega$

VOL DOWN switch ON : 0  $\Omega$



# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## ECU DIAGNOSIS INFORMATION

### AV CONTROL UNIT

#### Reference Value

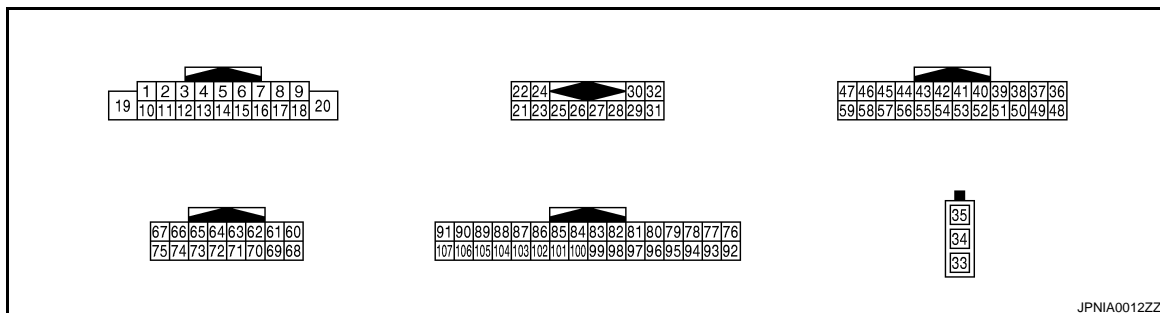
INFOID:000000004238506

#### VALUES ON THE DIAGNOSIS TOOL

##### CONSULT-III MONITOR ITEM

| Monitor Item | Condition           |   | Value/Status |
|--------------|---------------------|---|--------------|
| VHCL SPD SIG | Ignition switch ON  | Vehicle speed > 0 km/h (0 MPH)              | On           |
|              |                     | Vehicle speed = 0 km/h (0 MPH)              | Off          |
| PKB SIG      | Ignition switch ON  | Parking brake is applied.                   | On           |
|              |                     | Parking brake is released.                  | Off          |
| ILLUM SIG    | Ignition switch ON  | Light switch ON                             | On           |
|              |                     | Light switch OFF                            | Off          |
| IGN SIG      | Ignition switch ON  | —   | On           |
|              | Ignition switch ACC | —   | Off          |
| REV SIG      | Ignition switch ON  | Selector lever in R position                | On           |
|              |                     | Selector lever in any position other than R | Off          |

#### TERMINAL LAYOUT



#### PHYSICAL VALUES

| Terminal (Wire color) |        | Description                  |              | Condition          |              | Reference value (Approx.) |
|-----------------------|--------|------------------------------|--------------|--------------------|--------------|---------------------------|
| +                     | -      | Signal name                  | Input/Output |                    |              |                           |
| 2 (L)                 | 3 (W)  | Sound signal door speaker LH | Output       | Ignition switch ON | Voice output | <p>SKIB3609E</p>          |
| 4 (LG)                | 5 (SB) | Sound signal rear speaker LH | Output       | Ignition switch ON | Voice output | <p>SKIB3609E</p>          |

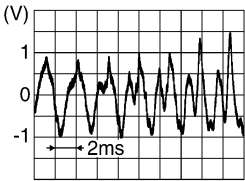
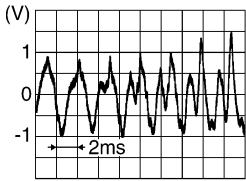
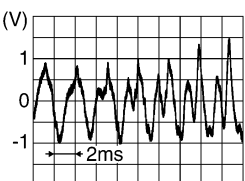
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AV

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

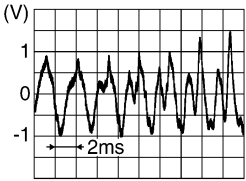
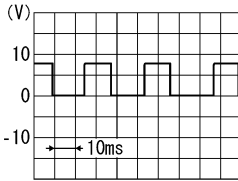
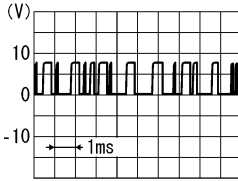
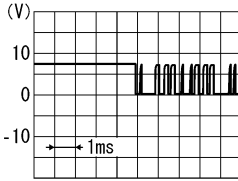
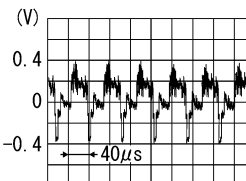
[BASE AUDIO WITHOUT NAVIGATION]

| Terminal<br>(Wire color) |           | Description                        |                  | Condition                 |  | Reference value<br>(Approx.)  |
|--------------------------|-----------|------------------------------------|------------------|---------------------------|--|---|
| +                        | -         | Signal name                        | Input/<br>Output |                           |  |   |
| 6<br>(P)                 | 15<br>(B) | Steering switch signal A           | Input            | Ignition<br>switch<br>ON  | Keep pressing SOURCE switch.             | 0 V   |
|                          |           |                                    |                  |                           | Keep pressing $\Delta$ switch.           | 0.7 V   |
|                          |           |                                    |                  |                           | Keep pressing $\nabla$ switch.           | 1.3 V   |
|                          |           |                                    |                  |                           | Except for above.                        | 3.3 V   |
| 7<br>(V)                 | Ground    | ACC power supply                   | Input            | Ignition<br>switch<br>ACC | —  | Battery voltage   |
| 9<br>(L)                 | Ground    | Illumination signal                | Input            | Ignition<br>switch<br>OFF | Lighting switch is OFF.                  | 0 V   |
|                          |           |                                    |                  |                           | Lighting switch is ON.                   | 12 V  |
| 11<br>(BR)               | 12<br>(R) | Sound signal door speaker<br>RH    | Output           | Ignition<br>switch<br>ON  | Voice output                             | <br><small>SKIB3609E</small>   |
| 13<br>(L)                | 14<br>(P) | Sound signal rear speaker<br>RH    | Output           | Ignition<br>switch<br>ON  | Voice output                             | <br><small>SKIB3609E</small>  |
| 15<br>(B)                | Ground    | Steering switch signal GND         | —                | Ignition<br>switch<br>ON  | —  | 0 V   |
| 16<br>(L)                | 15<br>(B) | Steering switch signal B           | Input            | Ignition<br>switch<br>ON  | Keep pressing VOL DOWN switch.           | 0 V   |
|                          |           |                                    |                  |                           | Keep pressing VOL UP switch.             | 0.7 V   |
|                          |           |                                    |                  |                           | Except for above.                        | 3.3 V   |
| 19<br>(Y)                | Ground    | Battery power supply               | Input            | Ignition<br>switch<br>OFF | —  | Battery voltage   |
| 20<br>(B)                | Ground    | GND                                | —                | Ignition<br>switch<br>ON  | —  | 0 V   |
| 22<br>(B)                | 21<br>(W) | Satellite radio sound signal<br>LH | Input            | Ignition<br>switch<br>ON  | When satellite radio mode<br>is selected | <br><small>SKIB3609E</small> |

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

| Terminal<br>(Wire color) |           | Description                        |                  | Condition                 |  | Reference value<br>(Approx.)  |
|--------------------------|-----------|------------------------------------|------------------|---------------------------|--|---|
| +                        | -         | Signal name                        | Input/<br>Output |                           |  |   |
| 24<br>(G)                | 23<br>(R) | Satellite radio sound signal<br>RH | Input            | Ignition<br>switch<br>ON  | When satellite radio mode<br>is selected |  <p style="text-align: right; font-size: small;">SKIB3609E</p>   |
| 25                       | —         | Shield                             | —                | —                         | —  | —   |
| 26                       | —         | Shield                             | —                | —                         | —  | —   |
| 28<br>(P)                | Ground    | Request signal<br>(SAT→CONT)       | Input            | Ignition<br>switch<br>ON  | When satellite radio mode<br>is selected |  <p style="text-align: right; font-size: small;">SKIA9299J</p>   |
| 29<br>(G)                | Ground    | Communication signal<br>(SAT→CONT) | Input            | Ignition<br>switch<br>ON  | When satellite radio mode<br>is selected |  <p style="text-align: right; font-size: small;">SKIA9300J</p>  |
| 30<br>(L)                | Ground    | Communication signal<br>(CONT→SAT) | Output           | Ignition<br>switch<br>ON  | When satellite radio mode<br>is selected |  <p style="text-align: right; font-size: small;">SKIA9301J</p> |
| 33                       | —         | FM sub                             | Input            | —                         | —  | —   |
| 34                       | —         | AM-FM main                         | Input            | —                         | —  | —   |
| 35                       | Ground    | Antenna amp. ON signal             | Output           | Ignition<br>switch<br>ACC | —  | 12 V  |
| 36<br>(SB)               | Ground    | AUX image signal                   | Output           | Ignition<br>switch<br>ON  | At AUX image is displayed                |  <p style="text-align: right; font-size: small;">SKIB2251J</p> |
| 37<br>(V)                | Ground    | AUX image GND                      | —                | Ignition<br>switch<br>ON  | —  | 0 V   |

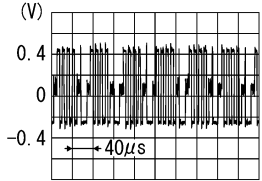
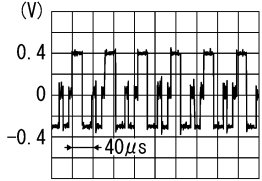
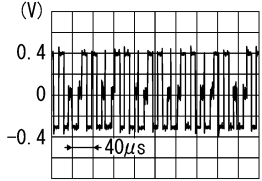
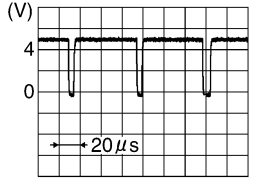
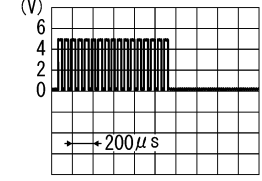
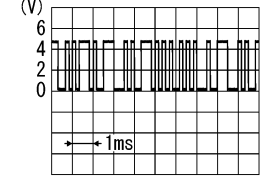
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AV

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

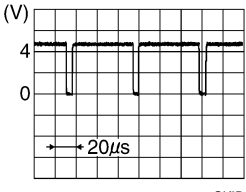
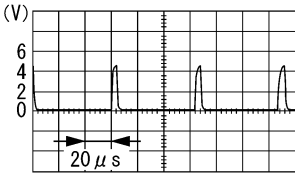
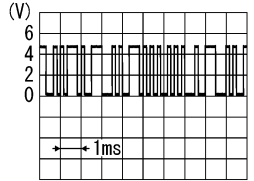
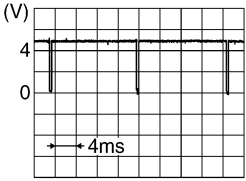
| Terminal<br>(Wire color) |        | Description                      |                  | Condition          | Reference value<br>(Approx.)  |   |
|--------------------------|--------|----------------------------------|------------------|--------------------|---|---|
| +                        | -      | Signal name                      | Input/<br>Output |                    |   |   |
| 38<br>(P)                | Ground | RGB signal (B: blue)             | Output           | Ignition switch ON | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.<br><br><br><small>SKIB2237J</small>  |   |
| 39<br>(L)                | Ground | RGB signal (G: green)            | Output           | Ignition switch ON | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.<br><br><br><small>SKIB2236J</small>  |   |
| 40<br>(G)                | Ground | RGB signal (R: red)              | Output           | Ignition switch ON | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.<br><br><br><small>SKIB2238J</small> |   |
| 41<br>(W)                | Ground | RGB synchronizing signal         | Output           | Ignition switch ON | —<br><br><br><small>SKIB3603E</small>  |   |
| 42                       | —      | Shield                           | —                | —                  | —   |   |
| 43<br>(V)                | Ground | RGB area (YS) signal             | Output           | Ignition switch ON | At RGB image is displayed   | 5 V   |
|                          |        |                                  |                  | Ignition switch ON | At AUX image is displayed   | <br><small>PKIB4948J</small> |
| 44<br>(BR)               | Ground | Communication signal (DISP→CONT) | Input            | Ignition switch ON | When adjusting display brightness.<br><br><br><small>PKIB5039J</small>   |   |



# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

| Terminal<br>(Wire color) |        | Description                             |                  | Condition                 |                                       | Reference value<br>(Approx.)  |
|--------------------------|--------|---|------------------|---------------------------|---------------------------------------|---|
| +                        | -      | Signal name                             | Input/<br>Output |                           |                                       |   |
| 45<br>(R)                | Ground | Horizontal synchronizing<br>(HP) signal | Input            | Ignition<br>switch<br>ON  | —                                     | <br><small>SKIB3601E</small>   |
| 46<br>(LG)               | Ground | Signal GND                              | —                | Ignition<br>switch<br>ON  | —                                     | 0 V   |
| 47<br>(O)                | Ground | Signal VCC                              | Output           | Ignition<br>switch<br>ACC | —                                     | 9 V   |
| 48<br>(BR)               | Ground | Composite synchronizing<br>signal       | Output           | Ignition<br>switch<br>ON  | —                                     | <br><small>SKIA0187E</small>   |
| 49                       | —      | Shield                                  | —                | —                         | —                                     | —   |
| 50                       | —      | Shield                                  | —                | —                         | —                                     | —   |
| 55                       | —      | Shield                                  | —                | —                         | —                                     | —   |
| 56<br>(Y)                | Ground | Communication signal<br>(CONT→DISP)     | Output           | Ignition<br>switch<br>ON  | When adjusting display<br>brightness. | <br><small>PKIB5039J</small> |
| 57<br>(G)                | Ground | Vertical synchronizing (VP)<br>signal   | Input            | Ignition<br>switch<br>ON  | —                                     | <br><small>SKIB3598E</small> |
| 58<br>(BR)               | Ground | Inverter GND                            | —                | Ignition<br>switch<br>ON  | —                                     | 0 V   |
| 59<br>(Y)                | Ground | Inverter VCC                            | Output           | Ignition<br>switch<br>ACC | —                                     | 9 V   |

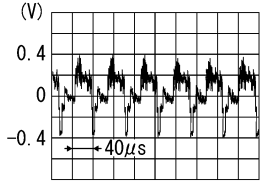
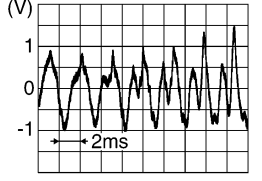
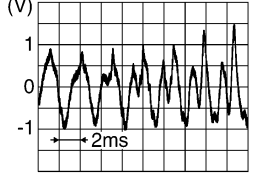
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AV

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

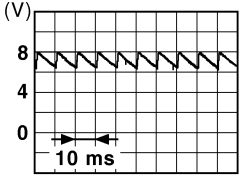
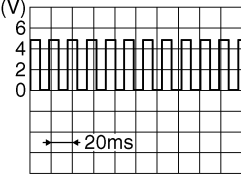
[BASE AUDIO WITHOUT NAVIGATION]

| Terminal<br>(Wire color) |        | Description                    |                  | Condition                |                                | Reference value<br>(Approx.)  |
|--------------------------|--------|--------------------------------|------------------|--------------------------|--------------------------------|---|
| +                        | -      | Signal name                    | Input/<br>Output |                          |                                |   |
| 66<br>(G)                | Ground | AUX image signal               | Input            | Ignition<br>switch<br>ON | When AUX mode is select-<br>ed |  <p style="text-align: right; font-size: small;">SKIB2251J</p>   |
| 73                       | —      | Shield                         | —                | —                        | —                              | —   |
| 74<br>(R)                | Ground | AUX image signal GND           | —                | Ignition<br>switch<br>ON | —                              | 0 V   |
| 84                       | —      | Shield                         | —                | —                        | —                              | —   |
| 85<br>(B)                | Ground | GND                            | —                | Ignition<br>switch<br>ON | —                              | 0 V   |
| 86<br>(L)                | —      | CAN-H                          | Input/<br>Output | —                        | —                              | —   |
| 87<br>(P)                | —      | CAN-L                          | Input/<br>Output | —                        | —                              | —   |
| 88<br>(V)                | —      | AV communication signal<br>(H) | Input/<br>Output | —                        | —                              | —   |
| 89<br>(LG)               | —      | AV communication signal<br>(L) | Input/<br>Output | —                        | —                              | —   |
| 90<br>(SB)               | —      | AV communication signal<br>(H) | Input/<br>Output | —                        | —                              | —   |
| 91<br>(Y)                | —      | AV communication signal<br>(L) | Input/<br>Output | —                        | —                              | —   |
| 95<br>(R)                | Ground | AUX sound signal RH            | Input            | Ignition<br>switch<br>ON | When AUX mode is select-<br>ed |  <p style="text-align: right; font-size: small;">SKIB3609E</p> |
| 96<br>(W)                | Ground | AUX sound signal LH            | Input            | Ignition<br>switch<br>ON | When AUX mode is select-<br>ed |  <p style="text-align: right; font-size: small;">SKIB3609E</p> |
| 97                       | —      | Shield                         | —                | —                        | —                              | —   |
| 101<br>(BR)              | Ground | SW GND                         | —                | Ignition<br>switch<br>ON | —                              | 0 V   |
| 103<br>(SB)              | Ground | Eject signal                   | Input            | —                        | Pressing the eject switch      | 0 V   |
|                          |        |                                |                  |                          | Except for above               | 3.3 V   |

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

| Terminal<br>(Wire color) |        | Description                       |                  | Condition                |  | Reference value<br>(Approx.)  |
|--------------------------|--------|-----------------------------------|------------------|--------------------------|--|---|
| +                        | -      | Signal name                       | Input/<br>Output |                          |  |   |
| 104<br>(G)               | Ground | Ignition signal                   | Input            | Ignition<br>switch<br>ON | —  | Battery voltage   |
| 105<br>(O)               | Ground | Reverse signal                    | Input            | Ignition<br>switch<br>ON | R position   | 12 V  |
|                          |        |                                   |                  |                          | Other than R position                              | 0 V   |
| 106<br>(SB)              | Ground | Parking brake signal              | Input            | Ignition<br>switch<br>ON | Parking brake ON                                   | 0 V   |
|                          |        |                                   |                  |                          | Parking brake OFF                                  |  <p style="text-align: right; font-size: small;">JSNIA0007GB</p>   |
| 107<br>(GR)              | Ground | Vehicle speed signal<br>(8-pulse) | Input            | Ignition<br>switch<br>ON | When vehicle speed is ap-<br>prox. 40 km/h (25MPH) | <p><b>NOTE:</b><br/>Maximum voltage may be 12 V<br/>due to specifications (connected<br/>units).</p>  <p style="text-align: right; font-size: small;">SKIA6649J</p> |

## Wiring Diagram - BASE AUDIO -

INFOID:000000004238507

**NOTE:**

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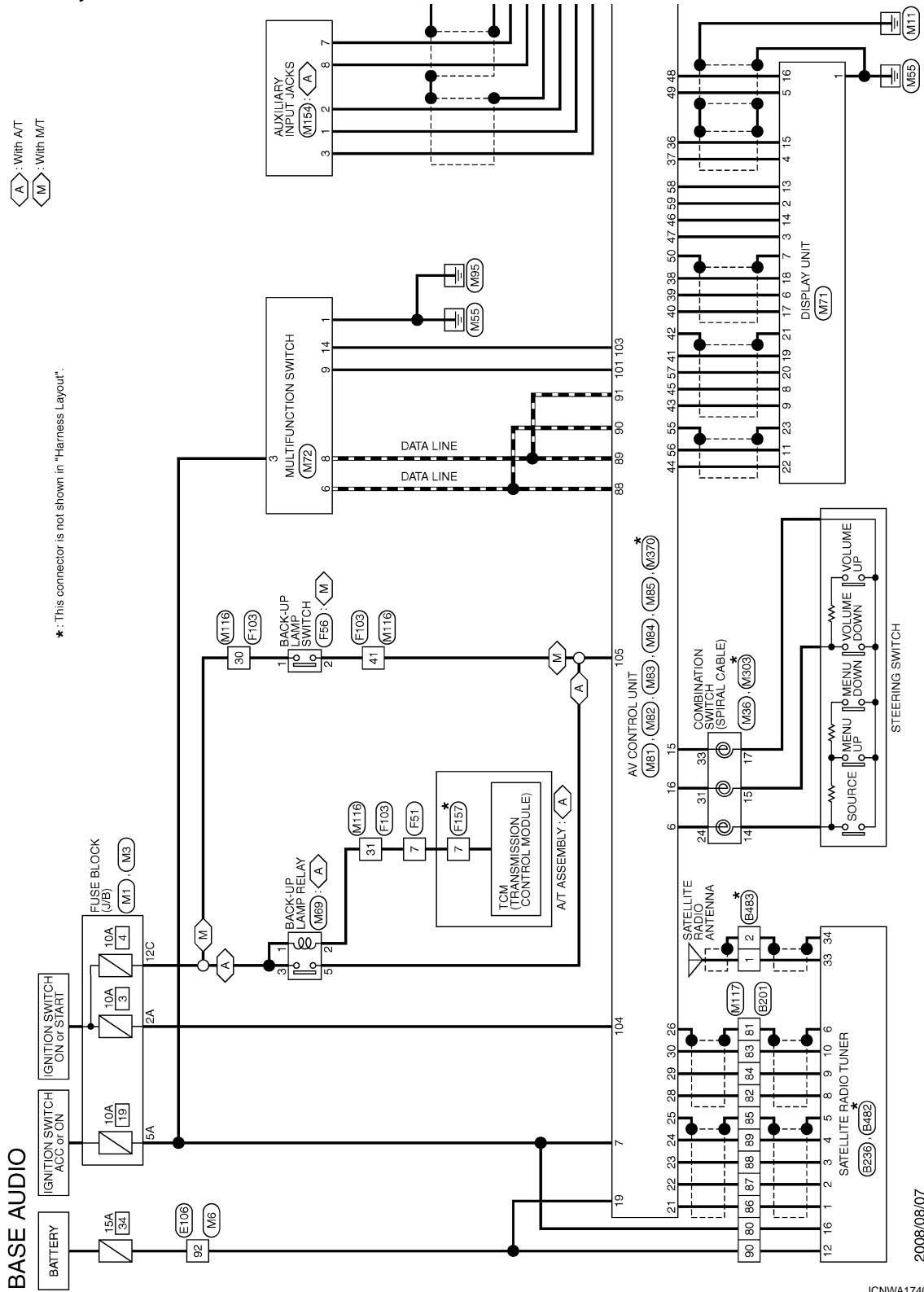
AV

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.



\*: This connector is not shown in "Harness Layout".

A: With A/T  
M: With M/T

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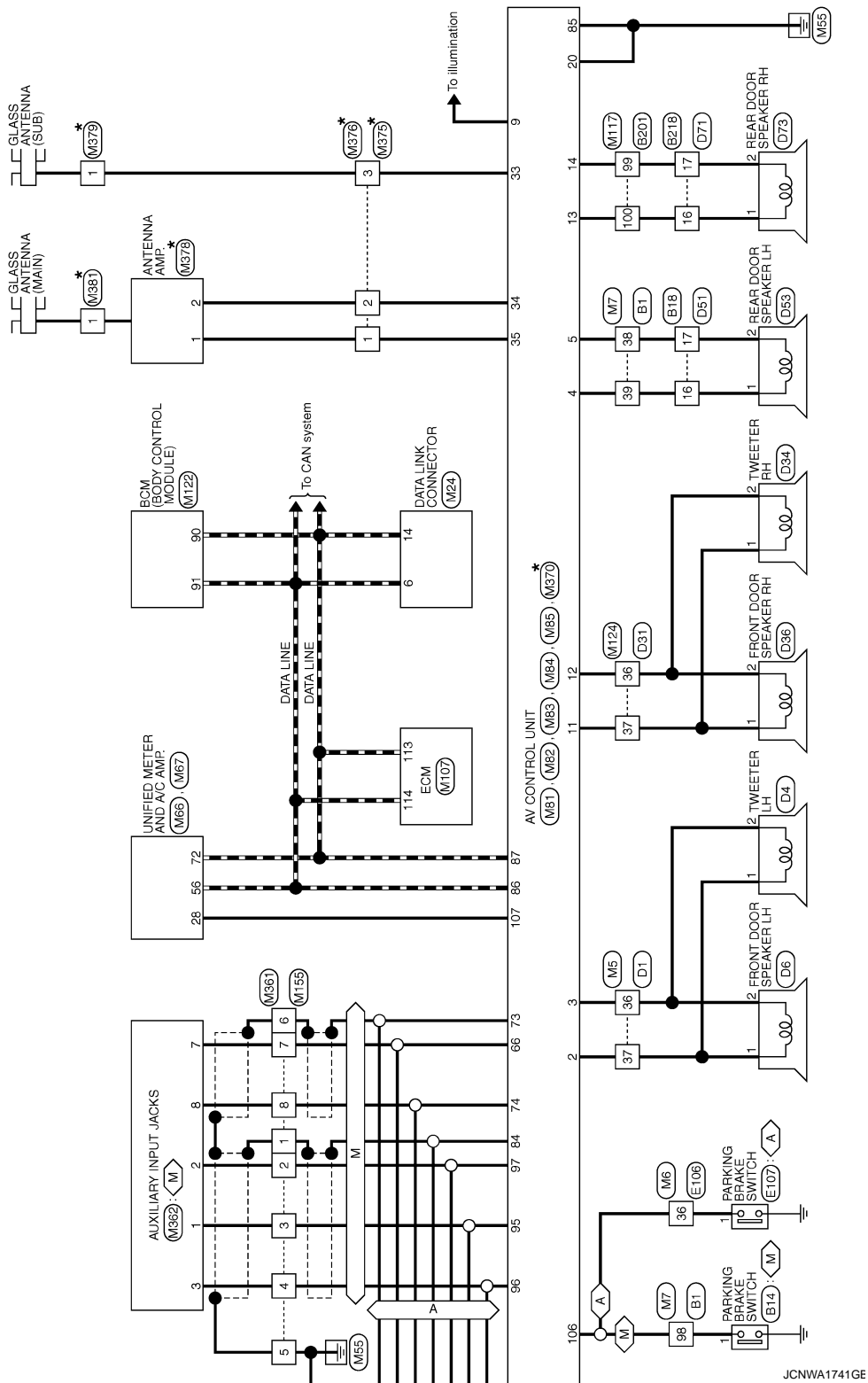
# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

A : With A/T  
M : With M/T

\*: This connector is not shown in "Harness Layout".



JCNWA1741GE

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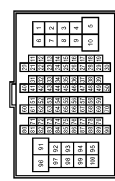
# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]


## BASE AUDIO

|                |                 |
|----------------|-----------------|
| Connector No.  | B1              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH80FW-CS16-TM4 |




|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 38           | Y             | -                           |
| 39           | LG            | -                           |
| 98           | V             | -                           |

|                |                                 |
|----------------|---------------------------------|
| Connector No.  | B14                             |
| Connector Name | PARKING BRAKE SWITCH (WITH M/T) |
| Connector Type | P01EB-A                         |



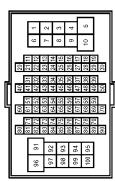
|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | V             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | B18          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NSS   |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 16           | LG            | - [Without BOSE system]     |
| 17           | Y             | - [Without BOSE system]     |


|                |                 |
|----------------|-----------------|
| Connector No.  | B201            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH80FW-CS16-TM4 |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 80           | O             | -                           |
| 81           | SHIELD        | -                           |
| 82           | G             | -                           |
| 83           | P             | -                           |
| 84           | L             | -                           |
| 85           | SHIELD        | -                           |
| 86           | G             | -                           |
| 87           | R             | -                           |
| 88           | W             | -                           |
| 89           | B             | -                           |
| 90           | Y             | -                           |


|     |   |   |
|-----|---|---|
| 99  | P | - |
| 100 | L | - |

|                |              |
|----------------|--------------|
| Connector No.  | B218         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NSS   |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 16           | L             | -                           |
| 17           | P             | -                           |

|                |                       |
|----------------|-----------------------|
| Connector No.  | B238                  |
| Connector Name | SATELLITE RADIO TUNER |
| Connector Type | A16FW                 |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | G             | SOUND SIGNAL LH (-)         |
| 2            | R             | SOUND SIGNAL LH (+)         |
| 3            | W             | SOUND SIGNAL RH (-)         |
| 4            | B             | SOUND SIGNAL RH (+)         |
| 5            | SHIELD        | SHIELD                      |
| 6            | SHIELD        | SHIELD                      |
| 8            | G             | REQUEST (SAT->CONT)         |
| 9            | L             | COMM (SAT->CONT)            |
| 10           | P             | COMM (CONT->SAT)            |
| 12           | Y             | BATTERY                     |
| 18           | O             | ACC                         |

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## BASE AUDIO

|                |                       |
|----------------|-----------------------|
| Connector No.  | B482                  |
| Connector Name | SATELLITE RADIO TUNER |
| Connector Type | -                     |



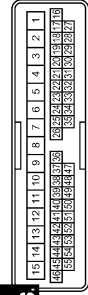
|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 33           | -             | SATELLITE ANTENNA           |
| 34           | SHIELD        | SHIELD                      |

|                |                         |
|----------------|-------------------------|
| Connector No.  | B483                    |
| Connector Name | SATELLITE RADIO ANTENNA |
| Connector Type | GT16-1PP-HU             |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-CS15  |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 36           | W             | -                           |
| 37           | L             | -                           |

|                |            |
|----------------|------------|
| Connector No.  | D4         |
| Connector Name | TWEETER LH |
| Connector Type | TK02FBR    |



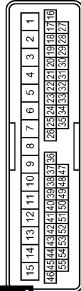
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |                       |
|----------------|-----------------------|
| Connector No.  | D6                    |
| Connector Name | FRONT DOOR SPEAKER LH |
| Connector Type | NS02FW-CS             |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D31          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-CS15  |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 36           | W             | -                           |
| 37           | L             | -                           |

|                |            |
|----------------|------------|
| Connector No.  | D24        |
| Connector Name | TWEETER RH |
| Connector Type | TK02FBR    |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |                       |
|----------------|-----------------------|
| Connector No.  | D36                   |
| Connector Name | FRONT DOOR SPEAKER RH |
| Connector Type | NS02FW-CS             |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | L             | -                           |
| 2            | W             | -                           |









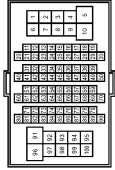



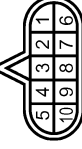



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# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## BASE AUDIO

|   |                                 |                 |   |              |               |                             |
|---|---------------------------------|-----------------|---|--------------|---------------|-----------------------------|
| Connector No.<br>D51  | WIRE TO WIRE                    | TK10MW-NS8      |  | Terminal No. | Color of Wire | Signal Name [Specification] |
| Connector Name  |                                 |                 |   | 16           | LG            |                             |
| Connector Type  |                                 |                 |   | 17           | Y             |                             |
|  |                                 |                 |   |              |               |                             |
| Connector No.<br>D53  | REAR DOOR SPEAKER LH            | NS02FW-CS       |  | Terminal No. | Color of Wire | Signal Name [Specification] |
| Connector Name  |                                 |                 |   | 1            | LG            |                             |
| Connector Type  |                                 |                 |   | 2            | Y             |                             |
|  |                                 |                 |   |              |               |                             |
| Connector No.<br>D71  | WIRE TO WIRE                    | TK10MW-NS8      |    | Terminal No. | Color of Wire | Signal Name [Specification] |
| Connector Name  |                                 |                 |   | 16           | L             |                             |
| Connector Type  |                                 |                 |   | 17           | P             |                             |
|    |                                 |                 |   |              |               |                             |
| Connector No.<br>D73  | REAR DOOR SPEAKER RH            | NS02FW-CS       |    | Terminal No. | Color of Wire | Signal Name [Specification] |
| Connector Name  |                                 |                 |   | 1            | L             |                             |
| Connector Type  |                                 |                 |   | 2            | P             |                             |
|    |                                 |                 |   |              |               |                             |
| Connector No.<br>E106   | WIRE TO WIRE                    | TH00FW-CS16-TM4 |  | Terminal No. | Color of Wire | Signal Name [Specification] |
| Connector Name  |                                 |                 |   | 36           | O             |                             |
| Connector Type  |                                 |                 |   | 92           | LG            |                             |
|  |                                 |                 |   |              |               |                             |
| Connector No.<br>E107   | PARKING BRAKE SWITCH (WITH A/T) | TB01FW          |  | Terminal No. | Color of Wire | Signal Name [Specification] |
| Connector Name  |                                 |                 |   | 1            | O             |                             |
| Connector Type  |                                 |                 |   |              |               |                             |
|  |                                 |                 |   |              |               |                             |
| Connector No.<br>E151   | A/T ASSEMBLY                    | RK10FG-DGY      |    | Terminal No. | Color of Wire | Signal Name [Specification] |
| Connector Name  |                                 |                 |   | 7            | R             |                             |
| Connector Type  |                                 |                 |   |              |               |                             |
|    |                                 |                 |   |              |               |                             |
| Connector No.<br>F55  | BACK-UP LAMP SWITCH             | RK02FB          |    | Terminal No. | Color of Wire | Signal Name [Specification] |
| Connector Name  |                                 |                 |   | 1            | R             |                             |
| Connector Type  |                                 |                 |   | 2            | O             |                             |
|    |                                 |                 |   |              |               |                             |

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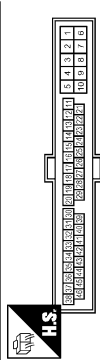
# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## BASE AUDIO

|                |              |
|----------------|--------------|
| Connector No.  | F103         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK36FW-RS10  |



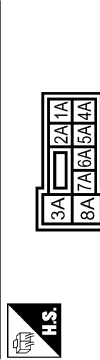
|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 30           | R             | -                           |
| 31           | R             | -                           |
| 41           | O             | -                           |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | F157                              |
| Connector Name | TOM (TRANSMISSION CONTROL MODULE) |
| Connector Type | SPT0FG                            |



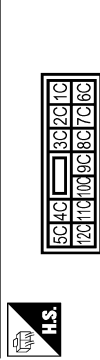
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 7            | L             | REV LAMP RLY                |

|                |                  |
|----------------|------------------|
| Connector No.  | M1               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS36FW-M2        |



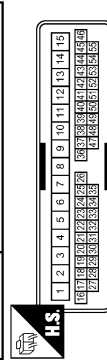
|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 2A           | G             | -                           |
| 5A           | L             | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | M3               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS        |



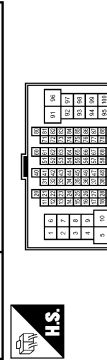
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 12C          | R             | -                           |

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| Connector No.  | M5           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH00MW-CS15  |



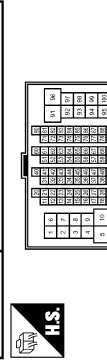
|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 37           | L             | -                           |
| 36           | W             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | M6              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH60MW-CS16-TM4 |



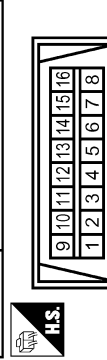
|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 36           | O             | -                           |
| 92           | Y             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | M7              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH60MW-CS16-TM4 |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 38           | SS            | -                           |
| 39           | LG            | -                           |
| 98           | O             | -                           |

|                |                     |
|----------------|---------------------|
| Connector No.  | M24                 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FY-P            |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 6            | L             | -                           |
| 14           | P             | -                           |

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## AV

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## BASE AUDIO

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M36                               |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TKGBGY-IV                         |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24           | P             | -                           |
| 31           | L             | -                           |
| 33           | B             | -                           |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M66                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH                  |



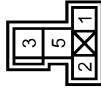
| Terminal No. | Color of Wire | Signal Name [Specification]    |
|--------------|---------------|--------------------------------|
| 28           | R             | VEHICLE SPEED SIGNAL (3-PULSE) |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M67                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH43FW-NH                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56           | L             | GAIN-H                      |
| 72           | P             | GAIN-L                      |

|                |                    |
|----------------|--------------------|
| Connector No.  | M69                |
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | MS2BEL-M2-LC       |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | W             | -                           |
| 3            | LG            | -                           |
| 5            | O             | -                           |

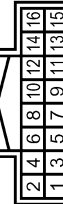
|                |                             |
|----------------|-----------------------------|
| Connector No.  | M71                         |
| Connector Name | DISPLAY UNIT (WITHOUT NAVI) |
| Connector Type | TH44FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 2            | Y             | INVERTER VCC                |
| 3            | O             | SIGNAL VCC                  |
| 4            | V             | AUX IMAGE GND               |
| 5            | Y             | SHIELD                      |
| 6            | L             | RGB (G.GREEN) SIGNAL        |
| 7            | SHIELD        | SHIELD                      |
| 8            | R             | HP                          |
| 9            | B             | RGB AREA (YS) SIGNAL        |
| 11           | V             | COMM (CONT->DISP)           |
| 13           | BR            | INVERTER GND                |

|    |        |                     |
|----|--------|---------------------|
| 14 | LG     | SIGNAL GND          |
| 15 | SB     | AUX IMAGE SIGNAL    |
| 16 | BR     | COMP SYNC           |
| 17 | G      | RGB (R.RED)         |
| 18 | P      | RGB (B.BLUE) SIGNAL |
| 19 | W      | RGB SYNC            |
| 20 | G      | VP                  |
| 21 | SHIELD | SHIELD              |
| 22 | BR     | COMM (DISP->CONT)   |
| 23 | SHIELD | SHIELD              |

|                |                      |
|----------------|----------------------|
| Connector No.  | M72                  |
| Connector Name | MULTIFUNCTION SWITCH |
| Connector Type | TH16FW-NH            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 3            | L             | ACC                         |
| 6            | G             | AV COMM (H)                 |
| 8            | R             | AV COMM (L)                 |
| 9            | BR            | SW GND                      |
| 14           | SB            | EJECT SIGNAL                |

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## BASE AUDIO

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M81                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH16FW-GSZ                     |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2            | L             | FRONT DOOR SPEAKER LH (+)   |
| 3            | W             | FRONT DOOR SPEAKER LH (-)   |
| 4            | LG            | REAR DOOR SPEAKER LH (+)    |
| 5            | SB            | REAR DOOR SPEAKER LH (-)    |
| 6            | P             | STRG SW A                   |
| 7            | V             | ACC                         |
| 9            | L             | ILLUMINATION                |
| 11           | BR            | FRONT DOOR SPEAKER RH (+)   |
| 12           | R             | FRONT DOOR SPEAKER RH (-)   |
| 13           | L             | REAR DOOR SPEAKER RH (+)    |
| 14           | P             | REAR DOOR SPEAKER RH (-)    |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M83                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | SB            | AUX IMAGE SIGNAL            |
| 37           | V             | AUX IMAGE GND               |
| 38           | P             | RGB (EBLUE) SIGNAL          |
| 39           | L             | RGB (GBLUE) SIGNAL          |
| 40           | G             | RGB (GBLUE) SIGNAL          |
| 41           | W             | RGB SYNC                    |
| 42           | SHIELD        | SHIELD                      |
| 43           | B             | RGB AREA (YS) SIGNAL        |
| 44           | B             | RGB AREA (YS) SIGNAL        |
| 45           | BR            | COMM (DISP->CONT)           |
| 46           | R             | HP                          |
| 46           | LG            | SIGNAL GND                  |

|    |   |             |
|----|---|-------------|
| 15 | B | STRG SW GND |
| 16 | L | STRG SW B   |
| 18 | Y | BATTERY     |
| 20 | B | GND         |

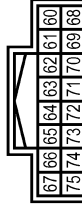
|                |                                |
|----------------|--------------------------------|
| Connector No.  | M82                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | A12FW                          |



| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 21           | W             | SATELLITE SOUND SIGNAL LH (-) |
| 22           | B             | SATELLITE SOUND SIGNAL LH (+) |
| 23           | R             | SATELLITE SOUND SIGNAL RH (-) |
| 24           | G             | SATELLITE SOUND SIGNAL RH (+) |
| 25           | SHIELD        | SHIELD                        |
| 26           | SHIELD        | SHIELD                        |
| 28           | P             | REQUEST (SAT->CONT)           |
| 29           | G             | COMM (SAT->CONT)              |
| 30           | L             | COMM (CONT->SAT)              |

|    |        |                   |
|----|--------|-------------------|
| 47 | O      | SIGNAL VCC        |
| 48 | BR     | COMP SYNC         |
| 49 | Y      | SHIELD            |
| 50 | SHIELD | SHIELD            |
| 55 | SHIELD | SHIELD            |
| 56 | Y      | COMM (CONT->DISP) |
| 57 | G      | VP                |
| 58 | BR     | INVERTER GND      |
| 59 | Y      | INVERTER VCC      |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M84                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH16FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 66           | G             | AUX IMAGE SIGNAL            |
| 73           | SHIELD        | SHIELD                      |
| 74           | R             | AUX IMAGE GND               |

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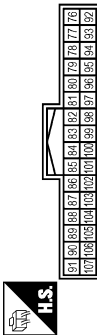
# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## BASE AUDIO

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M85                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH32FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification]       |
|--------------|---------------|-----------------------------------|
| 84           | SHIELD        | SHIELD                            |
| 85           | B             | GND                               |
| 86           | L             | CAN-H                             |
| 87           | P             | CAN-L                             |
| 88           | G             | AV COMM (H) [Without BOSE system] |
| 89           | R             | AV COMM (L) [Without BOSE system] |
| 90           | SB            | AV COMM (H)                       |
| 91           | Y             | AV COMM (L)                       |
| 95           | R             | AUX SOUND SIGNAL RH (+)           |
| 96           | W             | AUX SOUND SIGNAL LH (+)           |
| 97           | B             | SHIELD                            |

|                |                 |
|----------------|-----------------|
| Connector No.  | M117            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH32MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 80           | W             | -                           |
| 81           | SHIELD        | -                           |
| 82           | P             | -                           |
| 83           | L             | -                           |
| 84           | G             | -                           |
| 85           | SHIELD        | -                           |
| 86           | W             | -                           |
| 87           | B             | -                           |
| 88           | R             | -                           |
| 89           | G             | -                           |
| 90           | Y             | -                           |

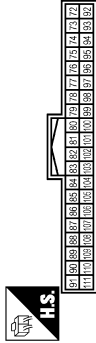
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| 101 | BR | SW GND                  |
| 103 | SR | EJECT SIGNAL            |
| 104 | G  | IGNITION                |
| 105 | O  | REVERSE                 |
| 106 | SR | PARKING BRAKE           |
| 107 | GR | VEHICLE SPEED (8-PULSE) |

|                |                   |
|----------------|-------------------|
| Connector No.  | M107              |
| Connector Name | ECM               |
| Connector Type | RH24FY-EZ2-R-LH-Z |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 113          | P             | VEHCAN-LI                   |
| 114          | L             | VEHCAN-HI                   |

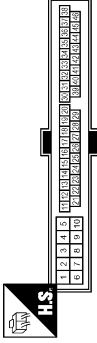
|                |                           |
|----------------|---------------------------|
| Connector No.  | M122                      |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH                 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 90           | P             | CAN-L                       |
| 91           | L             | CAN-H                       |

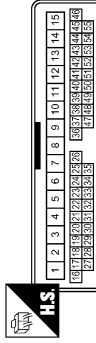
|     |   |   |
|-----|---|---|
| 99  | P | - |
| 100 | L | - |

|                |              |
|----------------|--------------|
| Connector No.  | M116         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK38MW-NS10  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 30           | LG            | -                           |
| 31           | W             | -                           |
| 41           | O             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M124         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | R             | -                           |
| 37           | BR            | -                           |

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## BASE AUDIO

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M184                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH A/T) |
| Connector Type | A08FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | SOUND SIGNAL RH (+)         |
| 2            | B             | SOUND SIGNAL GND            |
| 3            | W             | SOUND SIGNAL LH (-)         |
| 7            | G             | AUX IMAGE SIGNAL            |
| 8            | R             | AUX IMAGE GND               |

|                |              |
|----------------|--------------|
| Connector No.  | M155         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | R             | -                           |
| 4            | W             | -                           |
| 5            | B             | -                           |
| 6            | B             | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M303                              |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY                           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 14           | W             | -                           |
| 15           | L             | -                           |
| 17           | BR            | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M381         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08MF-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | BR            | - [Without NAV]             |
| 4            | Y             | - [Without NAV]             |
| 5            | SHIELD        | -                           |
| 6            | SHIELD        | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M382                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH M/T) |
| Connector Type | A08FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | BR            | - [Without NAV]             |
| 2            | B             | -                           |
| 3            | Y             | - [Without NAV]             |
| 7            | G             | -                           |
| 8            | R             | -                           |

|                |                               |
|----------------|-------------------------------|
| Connector No.  | M370                          |
| Connector Name | AV CONTROL UNIT (WITHOUT NAV) |
| Connector Type | GT13SH-2/IS-HU                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | FM SUB                      |
| 34           | -             | AM-FM MAIN                  |
| 35           | -             | ANTENNA AMP. ON SIGNAL      |

|                |                |
|----------------|----------------|
| Connector No.  | M375           |
| Connector Name | WIRE TO WIRE   |
| Connector Type | GT13SC-2/IS-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | M376             |
| Connector Name | WIRE TO WIRE     |
| Connector Type | GT13SCN-2/IPP-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

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
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# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >



[BASE AUDIO WITHOUT NAVIGATION]

| BASE AUDIO  |                |                             |
|---|----------------|-----------------------------|
| Connector No.   | M378           |                             |
| Connector Name  | ANTENNA AMP.   |                             |
| Connector Type  | GTJ3SC-1/1S-HU |                             |
|   |                |                             |
| Terminal No.  | Color of Wire  | Signal Name [Specification] |
| 1   | —              | ANTENNA AMP. ON SIGNAL      |
| 2   | —              | AM-FM MAIN                  |

|   |                     |                             |
|---|---------------------|-----------------------------|
| Connector No.   | M379                |                             |
| Connector Name  | GLASS ANTENNA (SUB) |                             |
| Connector Type  | P01FB-A             |                             |
|   |                     |                             |
| Terminal No.  | Color of Wire       | Signal Name [Specification] |
| 1   | —                   | —                           |

|   |                      |                             |
|---|----------------------|-----------------------------|
| Connector No.   | M381                 |                             |
| Connector Name  | GLASS ANTENNA (MAIN) |                             |
| Connector Type  | P01FB-A              |                             |
|   |                      |                             |
| Terminal No.  | Color of Wire        | Signal Name [Specification] |
| 1   | —                    | —                           |

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INFOID:000000004238508

DTC Index

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

| DTC            | Display item  | Refer to                                     |
|----------------|---|--|
| U1000          | CAN COMM CIRCUIT [U1000]  | <a href="#">AV-29, "Diagnosis Procedure"</a> |
| U1010          | CONTROL UNIT (CAN) [U1010]  | <a href="#">AV-30, "Diagnosis Procedure"</a> |
| U1310          | CONTROL UNIT (AV) [U1310]   | <a href="#">AV-31, "DTC Logic"</a>           |
| U1200          | Cont Unit FLASH-ROM [U1200]   | <a href="#">AV-32, "DTC Logic"</a>           |
| U1216          | CAN CONT [U1216]  | <a href="#">AV-33, "DTC Logic"</a>           |
| U1243          | FRONT DISP CONN [U1243]   | <a href="#">AV-34, "Diagnosis Procedure"</a> |
| U1255          | SAT CONN [U1255]  | <a href="#">AV-36, "Diagnosis Procedure"</a> |
| U1300<br>U1240 | <ul style="list-style-type: none"><li>• AV COMM CIRCUIT [U1300]</li><li>• SWITCH CONN [U1240]</li></ul> | <a href="#">AV-38, "Description"</a>         |

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# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

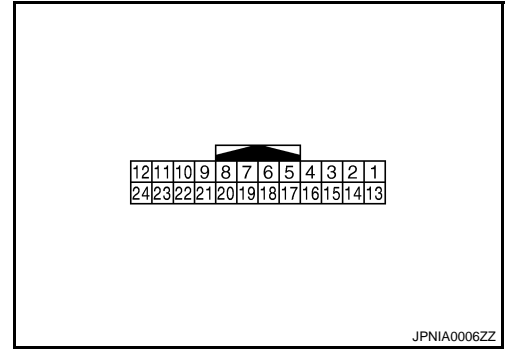
[BASE AUDIO WITHOUT NAVIGATION]

## DISPLAY UNIT

Reference Value

INFOID:000000004238509

TERMINAL LAYOUT



PHYSICAL VALUES

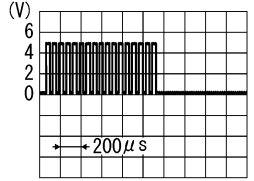
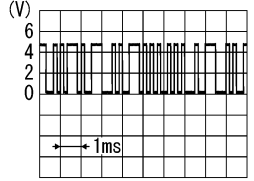
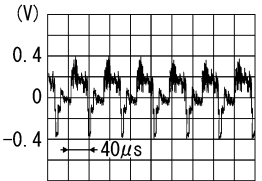
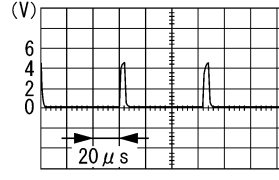
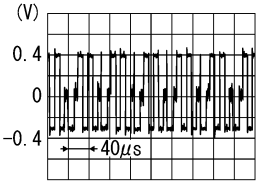
| Terminal<br>(Wire color) |        | Description                             |                  | Condition                 |  | Reference value<br>(Approx.)                |
|--------------------------|--------|---|------------------|---------------------------|--|---|
| +                        | -      | Signal name                             | Input/<br>Output |                           |  |   |
| 1<br>(B)                 | Ground | GND                                     | —                | Ignition<br>switch<br>ON  | —  | 0 V   |
| 2<br>(Y)                 | Ground | Inverter VCC                            | Input            | Ignition<br>switch<br>ACC | —  | 9 V   |
| 3<br>(O)                 | Ground | Signal VCC                              | Input            | Ignition<br>switch<br>ACC | —  | 9 V   |
| 4<br>(V)                 | Ground | AUX image GND                           | —                | Ignition<br>switch<br>ON  | —  | 0 V   |
| 5                        | —      | Shield                                  | —                | —                         | —  | —   |
| 6<br>(L)                 | Ground | RGB signal (G: green)                   | Input            | Ignition<br>switch<br>ON  | Start confirmation/adjust-<br>ment mode, and then dis-<br>play color bar by selecting<br>“Color Spectrum Bar” on<br>DISPLAY DIAGNOSIS<br>screen. | <p style="text-align: right;">SKIB2236J</p> |
| 7                        | —      | Shield                                  | —                | —                         | —  | —   |
| 8<br>(R)                 | Ground | Horizontal synchronizing<br>(HP) signal | Output           | Ignition<br>switch<br>ON  | —  | <p style="text-align: right;">SKIB3601E</p> |



# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

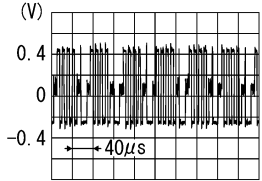
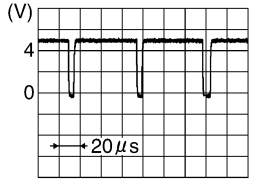
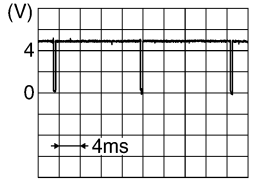
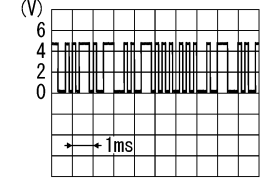
| Terminal<br>(Wire color) |        | Description                         |                  | Condition          | Reference value<br>(Approx.)   |
|--------------------------|--------|-------------------------------------|------------------|--------------------|--|
| +                        | -      | Signal name                         | Input/<br>Output |                    |  |
| 9<br>(B)                 | Ground | RGB area (YS) signal                | Input            | Ignition switch ON | At RGB image is displayed<br>5 V   |
|                          |        |                                     |                  | Ignition switch ON | At AUX image is displayed<br>   |
| 11<br>(Y)                | Ground | Communication signal<br>(CONT→DISP) | Input            | Ignition switch ON | When adjusting display brightness.<br>  |
| 13<br>(BR)               | Ground | Inverter GND                        | —                | Ignition switch ON | —<br>0 V   |
| 14<br>(LG)               | Ground | Signal GND                          | —                | Ignition switch ON | —<br>0 V   |
| 15<br>(SB)               | Ground | AUX image signal                    | Input            | Ignition switch ON | At AUX image is displayed<br>   |
| 16<br>(BR)               | Ground | Composite synchronizing signal      | Input            | Ignition switch ON | —<br>   |
| 17<br>(G)                | Ground | RGB signal (R: red)                 | Input            | Ignition switch ON | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.<br> |

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# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

| Terminal<br>(Wire color) |        | Description                           |                  | Condition                |  | Reference value<br>(Approx.)   |
|--------------------------|--------|---------------------------------------|------------------|--------------------------|--|--|
| +                        | -      | Signal name                           | Input/<br>Output |                          |  |  |
| 18<br>(P)                | Ground | RGB signal (B: blue)                  | Input            | Ignition<br>switch<br>ON | Start confirmation/adjust-<br>ment mode, and then dis-<br>play color bar by selecting<br>"Color Spectrum Bar" on<br>DISPLAY DIAGNOSIS<br>screen. |  <p>SKIB2237J</p>   |
| 19<br>(W)                | Ground | RGB synchronizing signal              | Input            | Ignition<br>switch<br>ON | —  |  <p>SKIB3603E</p>   |
| 20<br>(G)                | Ground | Vertical synchronizing (VP)<br>signal | Output           | Ignition<br>switch<br>ON | —  |  <p>SKIB3598E</p>  |
| 21                       | —      | Shield                                | —                | —                        | —  | —  |
| 22<br>(BR)               | Ground | Communication signal<br>(DISP→CONT)   | Output           | Ignition<br>switch<br>ON | When adjusting display<br>brightness.  |  <p>PKIB5039J</p> |
| 23                       | —      | Shield                                | —                | —                        | —  | —  |

## Wiring Diagram - BASE AUDIO -

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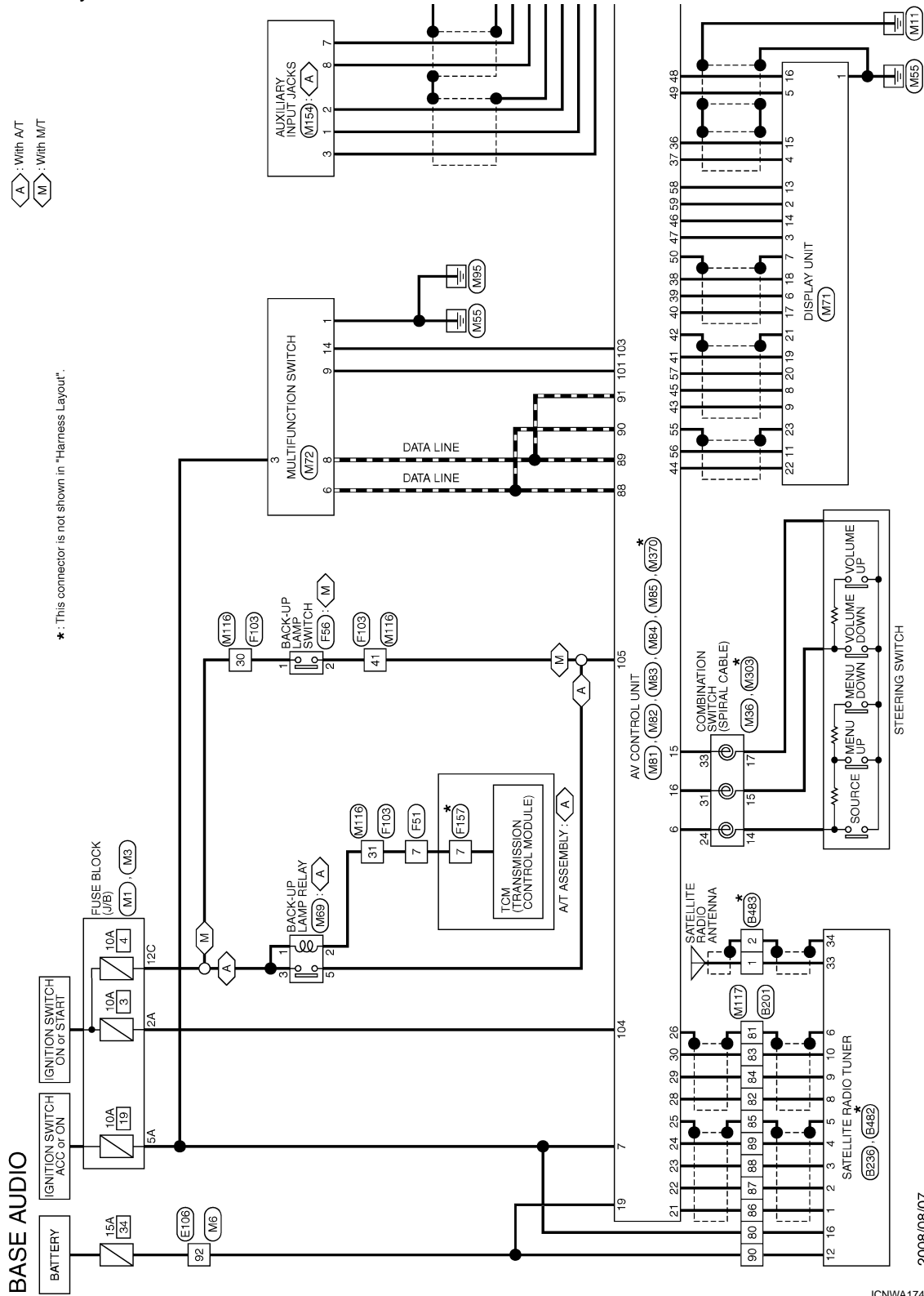
### NOTE:

# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.



2008/08/07

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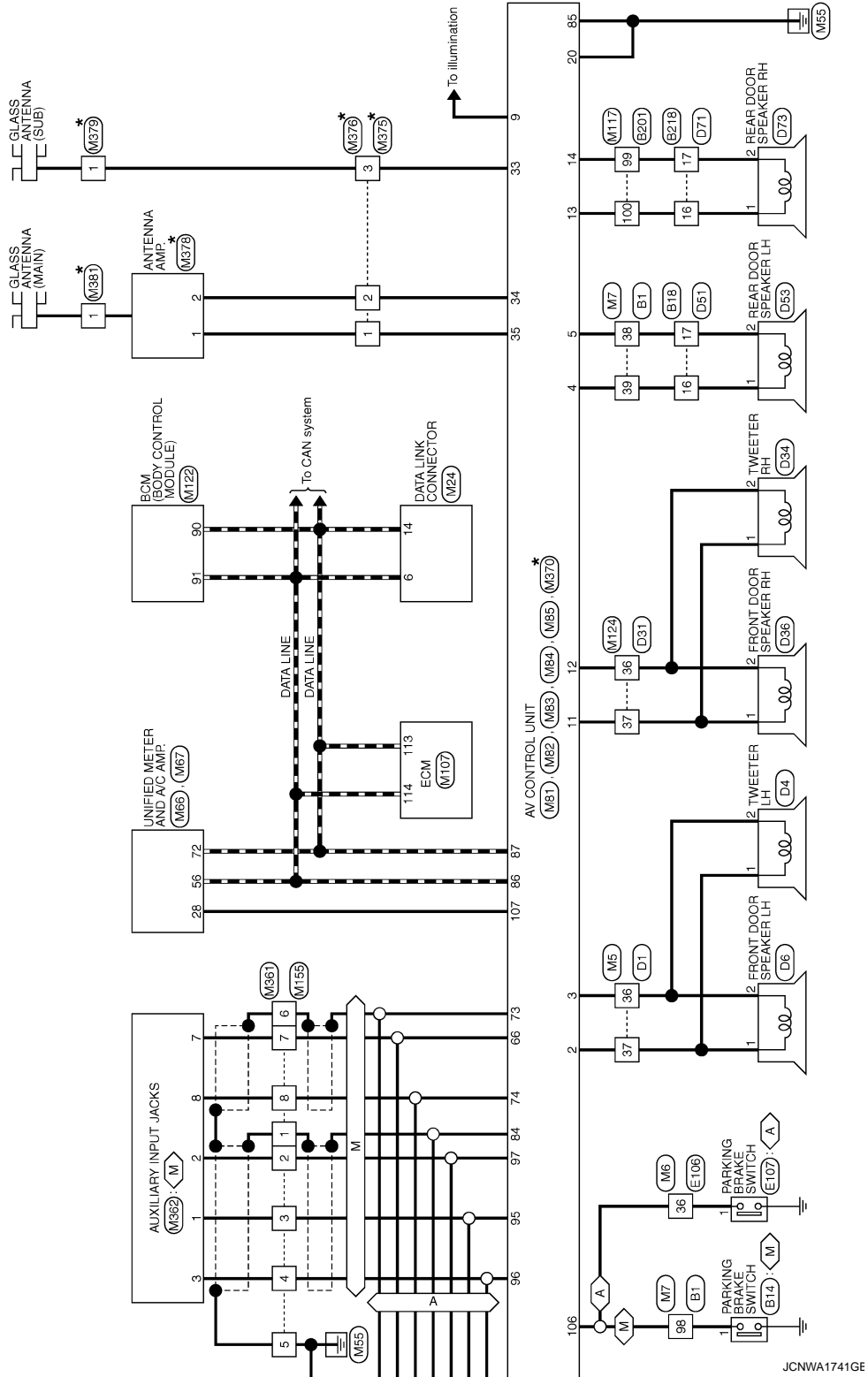
# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

A : With A/T  
M : With M/T

\* : This connector is not shown in "Harness Layout".



JCNWA1741GE

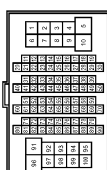
# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]


## BASE AUDIO

|                |                 |
|----------------|-----------------|
| Connector No.  | B1              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH00FW-CS16-TM4 |




|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 38           | Y             | -                           |
| 39           | LG            | -                           |
| 88           | V             | -                           |

|                |                                 |
|----------------|---------------------------------|
| Connector No.  | B14                             |
| Connector Name | PARKING BRAKE SWITCH (WITH M/T) |
| Connector Type | P01EB-A                         |



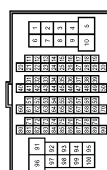
|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | V             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | B18          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NS8   |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 16           | LG            | - [Without BOSE system]     |
| 17           | Y             | - [Without BOSE system]     |


|                |                 |
|----------------|-----------------|
| Connector No.  | B201            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH00FW-CS16-TM4 |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 80           | O             | -                           |
| 81           | SHIELD        | -                           |
| 82           | G             | -                           |
| 83           | P             | -                           |
| 84           | L             | -                           |
| 85           | SHIELD        | -                           |
| 86           | G             | -                           |
| 87           | R             | -                           |
| 88           | W             | -                           |
| 89           | B             | -                           |
| 90           | Y             | -                           |


|     |   |   |
|-----|---|---|
| 99  | P | - |
| 100 | L | - |

|                |              |
|----------------|--------------|
| Connector No.  | B218         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NS8   |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 16           | L             | -                           |
| 17           | P             | -                           |

|                |                       |
|----------------|-----------------------|
| Connector No.  | B238                  |
| Connector Name | SATELLITE RADIO TUNER |
| Connector Type | AI6FW                 |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | G             | SOUND SIGNAL LH (-)         |
| 2            | R             | SOUND SIGNAL LH (+)         |
| 3            | W             | SOUND SIGNAL RH (-)         |
| 4            | B             | SOUND SIGNAL RH (+)         |
| 5            | SHIELD        | SHIELD                      |
| 6            | SHIELD        | SHIELD                      |
| 8            | G             | REQUEST (SAT->CONT)         |
| 9            | L             | COMM (SAT->CONT)            |
| 10           | P             | COMM (CONT->SAT)            |
| 12           | Y             | BATTERY                     |
| 16           | O             | ACC                         |

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# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## BASE AUDIO

|                |                       |
|----------------|-----------------------|
| Connector No.  | B482                  |
| Connector Name | SATELLITE RADIO TUNER |
| Connector Type | -                     |



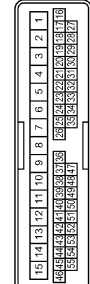
|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 33           | -             | SATELLITE ANTENNA           |
| 34           | SHIELD        | SHIELD                      |

|                |                         |
|----------------|-------------------------|
| Connector No.  | B483                    |
| Connector Name | SATELLITE RADIO ANTENNA |
| Connector Type | GT16-1PP-TU             |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-CS15  |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 36           | W             | -                           |
| 37           | L             | -                           |

|                |            |
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| Connector No.  | D4         |
| Connector Name | TWEETER LH |
| Connector Type | TK02FBR    |



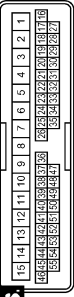
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |                       |
|----------------|-----------------------|
| Connector No.  | D6                    |
| Connector Name | FRONT DOOR SPEAKER LH |
| Connector Type | NS02PW-CS             |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D31          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-CS15  |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 36           | W             | -                           |
| 37           | L             | -                           |

|                |            |
|----------------|------------|
| Connector No.  | D24        |
| Connector Name | TWEETER RH |
| Connector Type | TK02FBR    |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |                       |
|----------------|-----------------------|
| Connector No.  | D38                   |
| Connector Name | FRONT DOOR SPEAKER RH |
| Connector Type | NS02PW-CS             |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | L             | -                           |
| 2            | W             | -                           |

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# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## BASE AUDIO

|                |              |
|----------------|--------------|
| Connector No.  | D51          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK,0MW-NSB   |



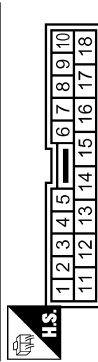
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | LG            | -                           |
| 17           | Y             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | D53                  |
| Connector Name | REAR DOOR SPEAKER LH |
| Connector Type | NS02FW-CS            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | LG            | -                           |
| 2            | Y             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D71          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK,10MW-NSB  |



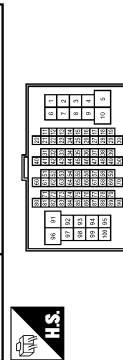
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | L             | -                           |
| 17           | P             | -                           |

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|----------------|----------------------|
| Connector No.  | D73                  |
| Connector Name | REAR DOOR SPEAKER RH |
| Connector Type | NS02FW-CS            |



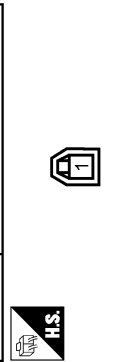
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | P             | -                           |

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|----------------|-----------------|
| Connector No.  | E108            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH0UFW-CS16-TM4 |



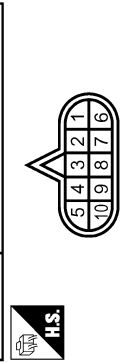
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | O             | -                           |
| 92           | LG            | -                           |

|                |                                 |
|----------------|---------------------------------|
| Connector No.  | E107                            |
| Connector Name | PARKING BRAKE SWITCH (WITH A/T) |
| Connector Type | TB01FW                          |



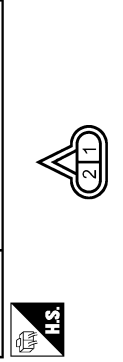
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | O             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | F51          |
| Connector Name | A/T ASSEMBLY |
| Connector Type | FR,0FG-DGY   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 7            | R             | -                           |

|                |                     |
|----------------|---------------------|
| Connector No.  | F56                 |
| Connector Name | BACK-UP LAMP SWITCH |
| Connector Type | FR,02FB             |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | O             | -                           |

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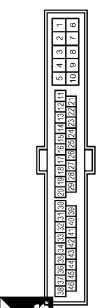
# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

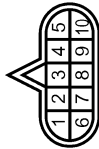
## BASE AUDIO

|                |              |
|----------------|--------------|
| Connector No.  | F103         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK36FW-RS10  |




|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 30           | R             | -                           |
| 31           | R             | -                           |
| 41           | O             | -                           |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | F157                              |
| Connector Name | TOM (TRANSMISSION CONTROL MODULE) |
| Connector Type | SPT0FG                            |




|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 7            | L             | REV LAMP RLY                |

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|----------------|------------------|
| Connector No.  | M1               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS30FW-M2        |



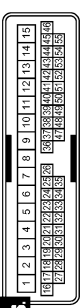
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 2A           | G             | -                           |
| 5A           | L             | -                           |

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|----------------|------------------|
| Connector No.  | M3               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS        |



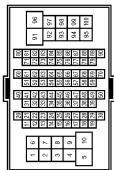
|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 12C          | R             | -                           |

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|----------------|--------------|
| Connector No.  | M5           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH60MW-CS15  |



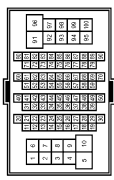
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 36           | W             | -                           |
| 37           | L             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | M6              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH60MW-CS16-TM4 |



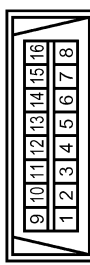
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 36           | O             | -                           |
| 92           | Y             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | M7              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH60MW-CS16-TM4 |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 38           | SS            | -                           |
| 39           | LG            | -                           |
| 98           | O             | -                           |

|                |                     |
|----------------|---------------------|
| Connector No.  | M24                 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FY-P            |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 6            | L             | -                           |
| 14           | P             | -                           |

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# DISPLAY UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

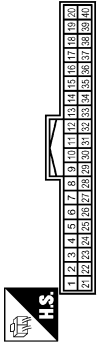
## BASE AUDIO

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M36                               |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TKGBGY-IV                         |



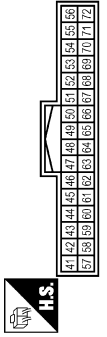
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24           | P             | -                           |
| 31           | L             | -                           |
| 33           | B             | -                           |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M66                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH                  |



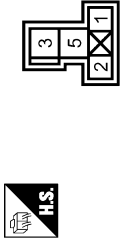
| Terminal No. | Color of Wire | Signal Name [Specification]    |
|--------------|---------------|--------------------------------|
| 28           | R             | VEHICLE SPEED SIGNAL (8-PULSE) |

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|----------------|----------------------------|
| Connector No.  | M67                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH62FW-NH                  |



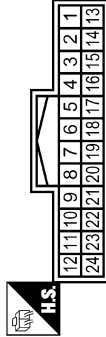
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56           | L             | CAN-H                       |
| 72           | P             | CAN-L                       |

|                |                    |
|----------------|--------------------|
| Connector No.  | M69                |
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | MS02LE-M2-LC       |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | W             | -                           |
| 3            | LG            | -                           |
| 5            | O             | -                           |

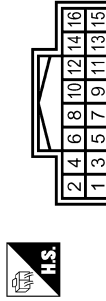
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| Connector No.  | M71                         |
| Connector Name | DISPLAY UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 2            | Y             | INVERTER VCC                |
| 3            | O             | SIGNAL VCC                  |
| 4            | V             | AUX IMAGE GND               |
| 5            | Y             | SHIELD                      |
| 6            | L             | RGB (G.GREEN) SIGNAL        |
| 7            | SHIELD        | SHIELD                      |
| 8            | R             | HP                          |
| 9            | B             | RGB AREA (VS) SIGNAL        |
| 11           | T             | COMM (CONT->DISP)           |
| 13           | BR            | INVERTER GND                |

|    |        |                   |
|----|--------|-------------------|
| 14 | LG     | SIGNAL GND        |
| 15 | SB     | AUX IMAGE SIGNAL  |
| 16 | BR     | COMP SYNC         |
| 17 | G      | RGB (RED) SIGNAL  |
| 18 | P      | RGB (BLUE) SIGNAL |
| 19 | W      | RGB SYNC          |
| 20 | G      | VP                |
| 21 | SHIELD | SHIELD            |
| 22 | BR     | COMM (DISP->CONT) |
| 23 | SHIELD | SHIELD            |

|                |                      |
|----------------|----------------------|
| Connector No.  | M72                  |
| Connector Name | MULTIFUNCTION SWITCH |
| Connector Type | TH16FW-NH            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 3            | L             | ACC                         |
| 6            | G             | AV COMM (H)                 |
| 8            | R             | AV COMM (L)                 |
| 9            | BR            | SW GND                      |
| 14           | SB            | EJECT SIGNAL                |

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# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## BASE AUDIO

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M83                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH18FW-GSZ                     |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2            | L             | FRONT DOOR SPEAKER LH (+)   |
| 3            | W             | FRONT DOOR SPEAKER LH (-)   |
| 4            | LG            | REAR DOOR SPEAKER LH (+)    |
| 5            | SB            | REAR DOOR SPEAKER LH (-)    |
| 6            | P             | STRG SW A                   |
| 7            | V             | ACC                         |
| 9            | L             | ILLUMINATION                |
| 11           | BR            | FRONT DOOR SPEAKER RH (+)   |
| 12           | R             | FRONT DOOR SPEAKER RH (-)   |
| 13           | L             | REAR DOOR SPEAKER RH (+)    |
| 14           | P             | REAR DOOR SPEAKER RH (-)    |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M83                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH18FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | SB            | AUX IMAGE SIGNAL            |
| 37           | V             | AUX IMAGE GND               |
| 38           | P             | RGB (BLUE) SIGNAL           |
| 39           | L             | RGB (GREEN) SIGNAL          |
| 40           | G             | RGB (RED) SIGNAL            |
| 41           | W             | RGB SYNC                    |
| 42           | SHIELD        | SHIELD                      |
| 43           | B             | RGB AREA (YS) SIGNAL        |
| 44           | BR            | COMM (DISP->CONT)           |
| 45           | R             | HP                          |
| 46           | LG            | SIGNAL GND                  |

|    |   |             |
|----|---|-------------|
| 15 | B | STRG SW GND |
| 16 | L | STRG SW B   |
| 19 | Y | BATTERY GND |
| 20 | B | GND         |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M82                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH12FW                         |



| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 21           | W             | SATELLITE SOUND SIGNAL LH (-) |
| 22           | B             | SATELLITE SOUND SIGNAL LH (+) |
| 23           | R             | SATELLITE SOUND SIGNAL RH (-) |
| 24           | G             | SATELLITE SOUND SIGNAL RH (+) |
| 25           | SHIELD        | SHIELD                        |
| 26           | SHIELD        | SHIELD                        |
| 28           | P             | REQUEST (SAT->CONT)           |
| 29           | G             | COMM (SAT->CONT)              |
| 30           | L             | COMM (CONT->SAT)              |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M84                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH18FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 66           | G             | AUX IMAGE SIGNAL            |
| 73           | SHIELD        | SHIELD                      |
| 74           | R             | AUX IMAGE GND               |

|    |        |                   |
|----|--------|-------------------|
| 47 | O      | SIGNAL VCC        |
| 48 | BR     | COMP SYNC         |
| 49 | Y      | SHIELD            |
| 50 | SHIELD | SHIELD            |
| 55 | SHIELD | SHIELD            |
| 56 | Y      | COMM (CONT->DISP) |
| 57 | G      | VP                |
| 58 | BR     | INVERTER GND      |
| 59 | Y      | INVERTER VCC      |

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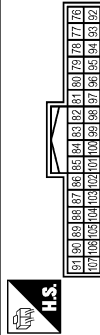
# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

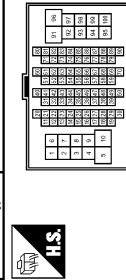
## BASE AUDIO

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M85                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH22FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification]       |
|--------------|---------------|-----------------------------------|
| 84           | SHIELD        | SHIELD                            |
| 85           | B             | GND                               |
| 86           | L             | CAN-H                             |
| 87           | P             | CAN-L                             |
| 88           | G             | AV COMM (H) [Without BOSE system] |
| 89           | R             | AV COMM (L) [Without BOSE system] |
| 90           | SB            | AV COMM (H)                       |
| 91           | Y             | AV COMM (L)                       |
| 95           | R             | AUX SOUND SIGNAL RH (+)           |
| 96           | W             | AUX SOUND SIGNAL LH (+)           |
| 97           | B             | SHIELD                            |

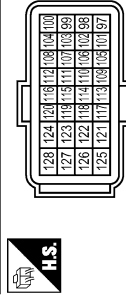
|                |                 |
|----------------|-----------------|
| Connector No.  | M117            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH22MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 81           | SHIELD        |                             |
| 80           | W             |                             |
| 82           | P             |                             |
| 83           | L             |                             |
| 84           | G             |                             |
| 85           | SHIELD        |                             |
| 86           | W             |                             |
| 83           | B             |                             |
| 88           | R             |                             |
| 89           | G             |                             |
| 90           | Y             |                             |

|     |    |                       |
|-----|----|-----------------------|
| 101 | BR | SW GND                |
| 103 | SR | EJECT SIGNAL          |
| 104 | G  | IGNITION              |
| 105 | O  | REVERSE               |
| 106 | SB | PARKING BRAKE         |
| 107 | GR | VEHICLE SPEED (PULSE) |

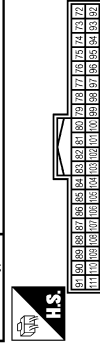
|                |                    |
|----------------|--------------------|
| Connector No.  | M107               |
| Connector Name | ECM                |
| Connector Type | RH24FGY-T2Z-R-LH-Z |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 113          | P             | VEHCAN-LI                   |
| 114          | L             | VEHCAN-HI                   |

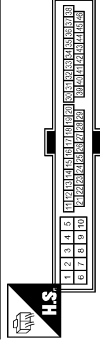
|     |   |  |
|-----|---|--|
| 99  | P |  |
| 100 | L |  |

|                |                           |
|----------------|---------------------------|
| Connector No.  | M122                      |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH                 |



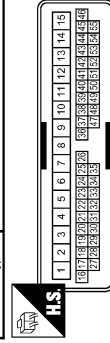
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 90           | P             | CAN-L                       |
| 91           | L             | CAN-H                       |

|                |              |
|----------------|--------------|
| Connector No.  | M116         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH38MW-NS10  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 30           | LG            |                             |
| 31           | W             |                             |
| 41           | O             |                             |

|                |              |
|----------------|--------------|
| Connector No.  | M124         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | R             |                             |
| 37           | BR            |                             |

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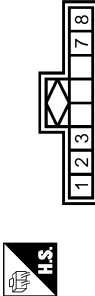
# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## BASE AUDIO

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M154                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH A/T) |
| Connector Type | A08FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | SOUND SIGNAL RH (+)         |
| 2            | B             | SOUND SIGNAL GND            |
| 3            | W             | SOUND SIGNAL LH (+)         |
| 7            | G             | AUX IMAGE SIGNAL            |
| 8            | R             | AUX IMAGE GND               |

|                |              |
|----------------|--------------|
| Connector No.  | M155         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | R             | -                           |
| 4            | W             | -                           |
| 5            | B             | -                           |
| 6            | B             | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M303                              |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY                           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 14           | W             | -                           |
| 15           | L             | -                           |
| 17           | BR            | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M361         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | BR            | - [Without NAV]             |
| 4            | Y             | - [Without NAV]             |
| 5            | SHIELD        | -                           |
| 6            | SHIELD        | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M382                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH M/T) |
| Connector Type | A08FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | BR            | - [Without NAV]             |
| 2            | B             | -                           |
| 3            | Y             | - [Without NAV]             |
| 7            | G             | -                           |
| 8            | R             | -                           |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M370                           |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | GT13SH-2/1S-HU                 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | FM SUB                      |
| 34           | -             | AM-FM MAIN                  |
| 35           | -             | ANTENNA AMP. ON SIGNAL      |

|                |                |
|----------------|----------------|
| Connector No.  | M275           |
| Connector Name | WIRE TO WIRE   |
| Connector Type | GT13SC-2/1S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | M376             |
| Connector Name | WIRE TO WIRE     |
| Connector Type | GT13SCN-2/1PP-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

JCNWA1749GE



# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]



## BASE AUDIO

|                |                |
|----------------|----------------|
| Connector No.  | M378           |
| Connector Name | ANTENNA AMP.   |
| Connector Type | GT13SC-1/1S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | ANTENNA AMP. ON SIGNAL      |
| 2            | -             | AM-FM MAIN                  |

|                |                     |
|----------------|---------------------|
| Connector No.  | M379                |
| Connector Name | GLASS ANTENNA (SUB) |
| Connector Type | P01FB-A             |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | M381                 |
| Connector Name | GLASS ANTENNA (MAIN) |
| Connector Type | P01FB-A              |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

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# SATELLITE RADIO TUNER

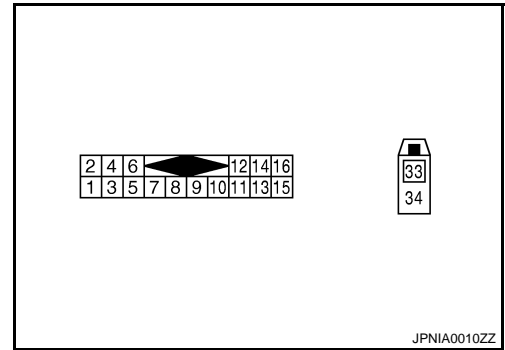
< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## SATELLITE RADIO TUNER

### Reference Value

INFOID:000000004238511



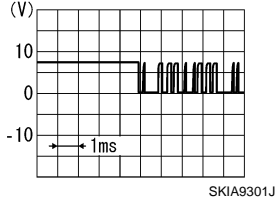
### PHYSICAL VALUES

| Terminal |        | Description                     |              | Condition          |                                       | Reference value (Approx.) |
|----------|--------|---------------------------------|--------------|--------------------|---------------------------------------|---------------------------|
| +        | -      | Signal name                     | Input/Output |                    |                                       |                           |
| 2 (R)    | 1 (G)  | Satellite radio sound signal LH | Output       | Ignition switch ON | When satellite radio mode is selected | <p>SKIB3609E</p>          |
| 4 (B)    | 3 (W)  | Satellite radio sound signal RH | Output       | Ignition switch ON | When satellite radio mode is selected | <p>SKIB3609E</p>          |
| 5        | —      | Shield                          | —            | —                  | —                                     | —                         |
| 6        | —      | Shield                          | —            | —                  | —                                     | —                         |
| 8 (G)    | Ground | Request signal (SAT→CONT)       | Output       | Ignition switch ON | When satellite radio mode is selected | <p>SKIA9299J</p>          |
| 9 (L)    | Ground | Communication signal (SAT→CONT) | Output       | Ignition switch ON | When satellite radio mode is selected | <p>SKIA9300J</p>          |

# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

| Terminal |        | Description                     |              | Condition           |                                       | Reference value (Approx.)   |
|----------|--------|---------------------------------|--------------|---------------------|---------------------------------------|---|
| +        | -      | Signal name                     | Input/Output |                     |                                       |   |
| 10 (P)   | Ground | Communication signal (CONT→SAT) | Input        | Ignition switch ON  | When satellite radio mode is selected |  |
| 12 (Y)   | Ground | Battery power supply            | Input        | Ignition switch OFF | —                                     | Battery voltage   |
| 16 (O)   | Ground | ACC power supply                | Input        | Ignition switch ACC | —                                     | Battery voltage   |
| 33       | —      | Satellite antenna               | Input        | —                   | —                                     | —   |
| 34       | —      | Shield                          | —            | —                   | —                                     | —   |

Wiring Diagram - BASE AUDIO -

INFOID:000000004501718

**NOTE:**

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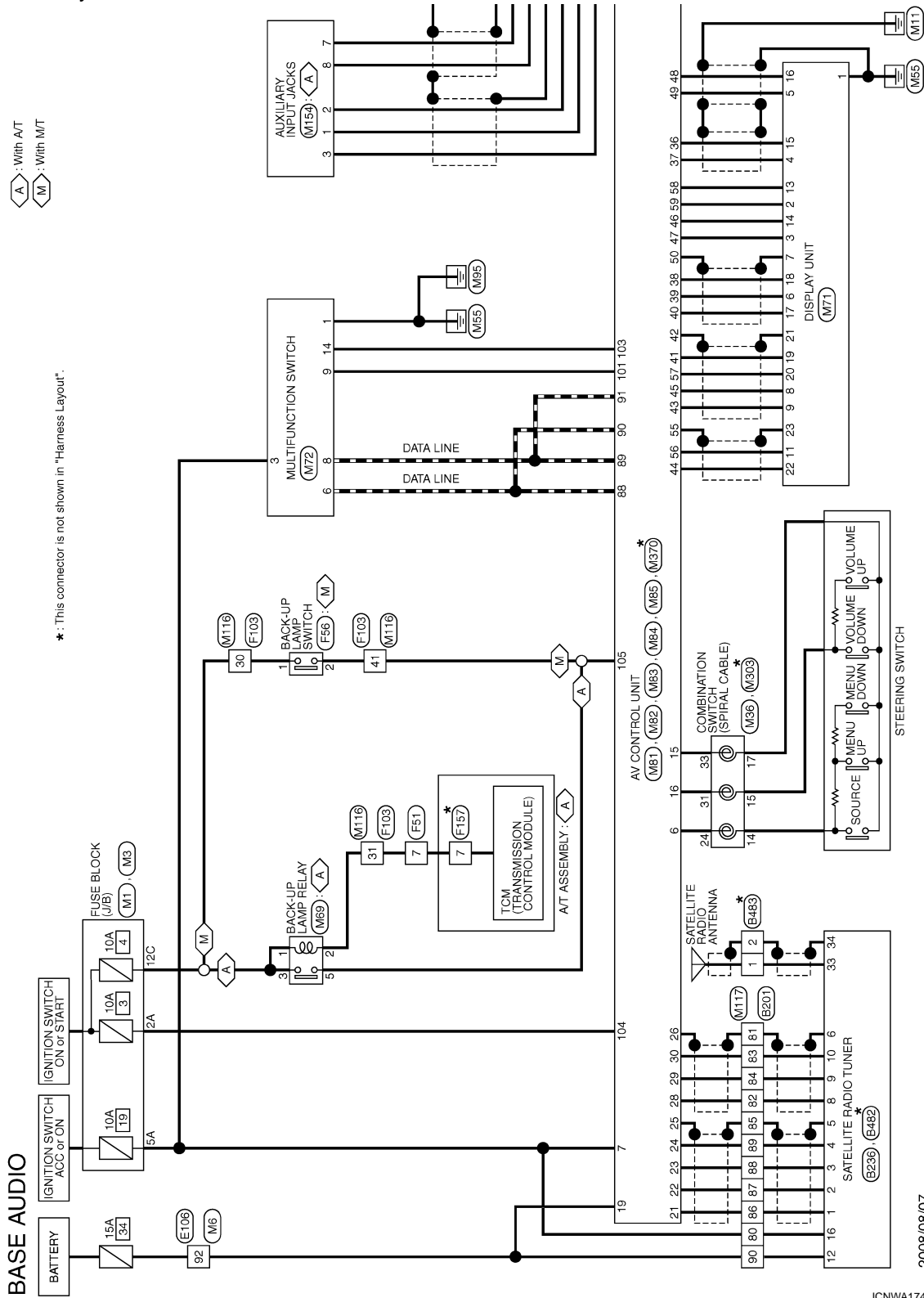


# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.





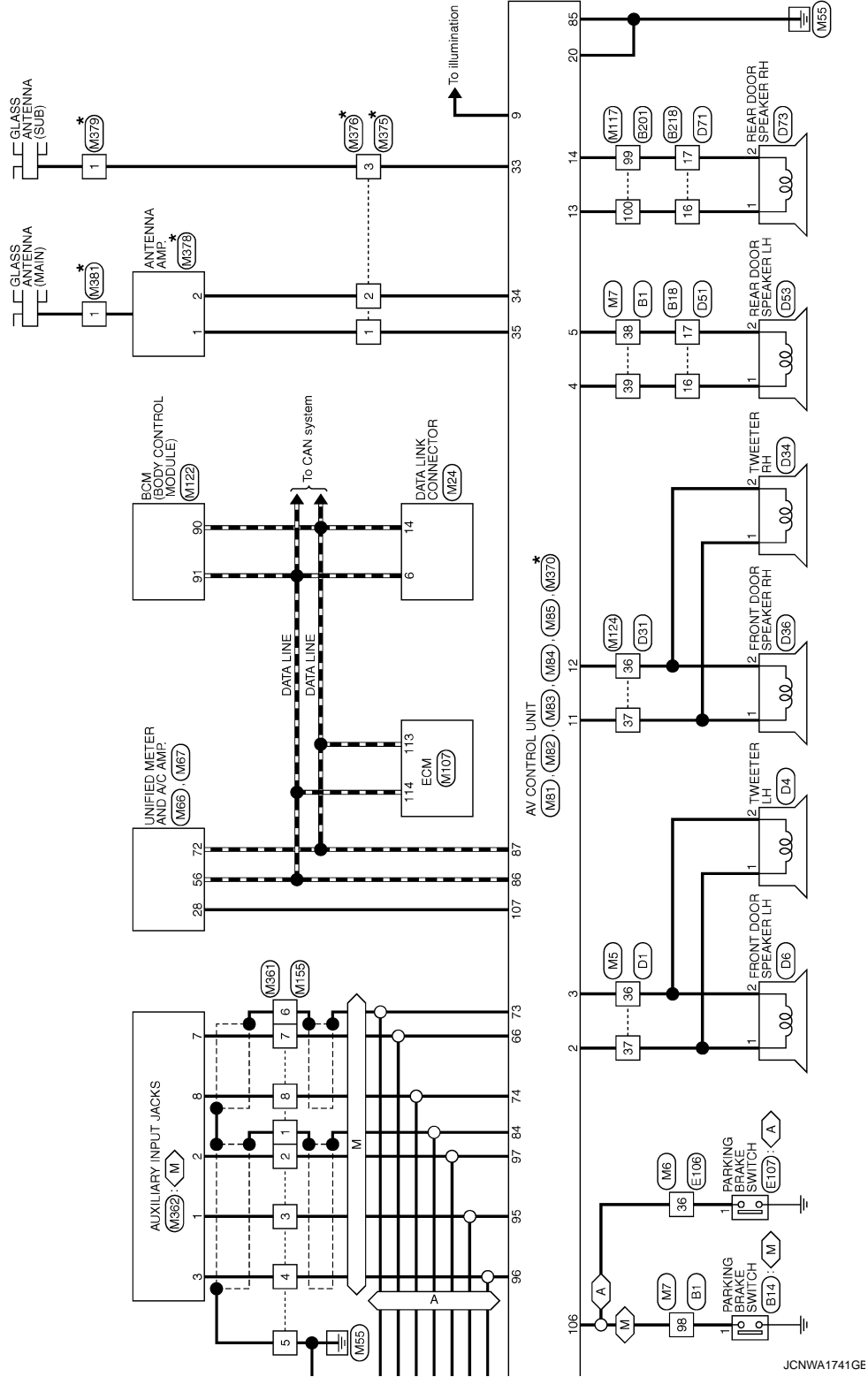
# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

A : With A/T  
M : With M/T

\*: This connector is not shown in "Harness Layout".



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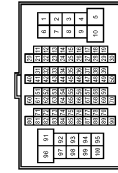
# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## BASE AUDIO

|                |                 |
|----------------|-----------------|
| Connector No.  | B1              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH80FW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 38           | Y             | -                           |
| 39           | LG            | -                           |
| 98           | V             | -                           |

|                |                                 |
|----------------|---------------------------------|
| Connector No.  | B14                             |
| Connector Name | PARKING BRAKE SWITCH (WITH M/T) |
| Connector Type | P01EB-A                         |



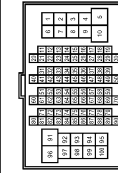
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | V             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | B18          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NSS   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | LG            | - [Without BOSE system]     |
| 17           | Y             | - [Without BOSE system]     |

|                |                 |
|----------------|-----------------|
| Connector No.  | B201            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH80FW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 80           | O             | -                           |
| 81           | SHIELD        | -                           |
| 82           | G             | -                           |
| 83           | P             | -                           |
| 84           | L             | -                           |
| 85           | SHIELD        | -                           |
| 86           | G             | -                           |
| 87           | R             | -                           |
| 88           | W             | -                           |
| 89           | B             | -                           |
| 90           | Y             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | B218         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NSS   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | L             | -                           |
| 17           | P             | -                           |

|                |                       |
|----------------|-----------------------|
| Connector No.  | B238                  |
| Connector Name | SATELLITE RADIO TUNER |
| Connector Type | A16FW                 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | G             | SOUND SIGNAL LH (-)         |
| 2            | R             | SOUND SIGNAL LH (+)         |
| 3            | W             | SOUND SIGNAL RH (-)         |
| 4            | B             | SOUND SIGNAL RH (+)         |
| 5            | SHIELD        | SHIELD                      |
| 6            | SHIELD        | SHIELD                      |
| 8            | G             | REQUEST (SAT->CONT)         |
| 9            | L             | COMM (SAT->CONT)            |
| 10           | P             | COMM (CONT->SAT)            |
| 12           | Y             | BATTERY                     |
| 18           | O             | ACC                         |

# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## BASE AUDIO

|                |                       |
|----------------|-----------------------|
| Connector No.  | B482                  |
| Connector Name | SATELLITE RADIO TUNER |
| Connector Type | -                     |



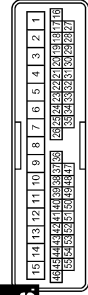
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | SATELLITE ANTENNA           |
| 34           | SHIELD        | SHIELD                      |

|                |                         |
|----------------|-------------------------|
| Connector No.  | B483                    |
| Connector Name | SATELLITE RADIO ANTENNA |
| Connector Type | GT16-1PP-HU             |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | W             | -                           |
| 37           | L             | -                           |

|                |            |
|----------------|------------|
| Connector No.  | D4         |
| Connector Name | TWEETER LH |
| Connector Type | TK02FBR    |



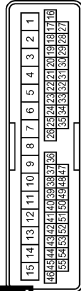
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |                       |
|----------------|-----------------------|
| Connector No.  | D6                    |
| Connector Name | FRONT DOOR SPEAKER LH |
| Connector Type | MS02PW-CS             |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D31          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | W             | -                           |
| 37           | L             | -                           |

|                |            |
|----------------|------------|
| Connector No.  | D24        |
| Connector Name | TWEETER RH |
| Connector Type | TK02FBR    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |                       |
|----------------|-----------------------|
| Connector No.  | D36                   |
| Connector Name | FRONT DOOR SPEAKER RH |
| Connector Type | MS02PW-CS             |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

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# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## BASE AUDIO

|                       |                                 |                 |  |                                |                             |                          |                          |                             |
|-----------------------|---------------------------------|-----------------|--|--------------------------------|-----------------------------|--------------------------|--------------------------|-----------------------------|
| Connector No.<br>D51  | WIRE TO WIRE                    | TK10MW-NS8      |  | Color of Wire<br>16 LG<br>17 Y | Signal Name [Specification] | Terminal No.<br>16<br>17 | Color of Wire<br>LG<br>Y | Signal Name [Specification] |
| Connector No.<br>D53  | REAR DOOR SPEAKER LH            | NS02FW-CS       |  | Color of Wire<br>1 LG<br>2 Y   | Signal Name [Specification] | Terminal No.<br>1<br>2   | Color of Wire<br>LG<br>Y | Signal Name [Specification] |
| Connector No.<br>D71  | WIRE TO WIRE                    | TK10MW-NS8      |  | Color of Wire<br>16 L<br>17 P  | Signal Name [Specification] | Terminal No.<br>16<br>17 | Color of Wire<br>L<br>P  | Signal Name [Specification] |
| Connector No.<br>D73  | REAR DOOR SPEAKER RH            | NS02FW-CS       |  | Color of Wire<br>1 L<br>2 P    | Signal Name [Specification] | Terminal No.<br>1<br>2   | Color of Wire<br>L<br>P  | Signal Name [Specification] |
| Connector No.<br>E106 | WIRE TO WIRE                    | TH00FW-CS16-TM4 |  | Color of Wire<br>36 O<br>92 LG | Signal Name [Specification] | Terminal No.<br>36<br>92 | Color of Wire<br>O<br>LG | Signal Name [Specification] |
| Connector No.<br>E107 | PARKING BRAKE SWITCH (WITH A/T) | TB01FW          |  | Color of Wire<br>1 O           | Signal Name [Specification] | Terminal No.<br>1        | Color of Wire<br>O       | Signal Name [Specification] |
| Connector No.<br>F51  | A/T ASSEMBLY                    | RK10FG-DG1      |  | Color of Wire<br>7 R           | Signal Name [Specification] | Terminal No.<br>7        | Color of Wire<br>R       | Signal Name [Specification] |
| Connector No.<br>F55  | BACK-UP LAMP SWITCH             | RK02FB          |  | Color of Wire<br>1 R<br>2 O    | Signal Name [Specification] | Terminal No.<br>1<br>2   | Color of Wire<br>R<br>O  | Signal Name [Specification] |

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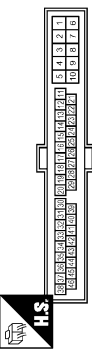
# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## BASE AUDIO

|                |              |
|----------------|--------------|
| Connector No.  | F103         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK36FW-RS10  |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 30           | R             | -                           |
| 31           | R             | -                           |
| 41           | O             | -                           |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | F157                              |
| Connector Name | TOM (TRANSMISSION CONTROL MODULE) |
| Connector Type | SPT0FG                            |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 7            | L             | REV LAMP RLY                |

|                |                  |
|----------------|------------------|
| Connector No.  | M1               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS36FW-M2        |



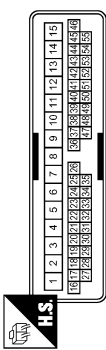
|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 2A           | G             | -                           |
| 5A           | L             | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | M3               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS        |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 12C          | R             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M5           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH00MW-CS15  |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 37           | L             | -                           |
| 36           | W             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | M6              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH00MW-CS16-TM4 |



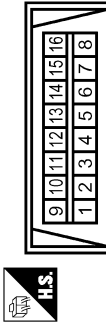
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 36           | O             | -                           |
| 92           | Y             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | M7              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH00MW-CS16-TM4 |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 38           | SS            | -                           |
| 39           | LG            | -                           |
| 98           | O             | -                           |

|                |                     |
|----------------|---------------------|
| Connector No.  | M24                 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FY-P            |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 6            | L             | -                           |
| 14           | P             | -                           |

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# SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

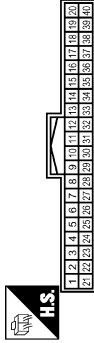
## BASE AUDIO

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M36                               |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK8BEGY-IV                        |



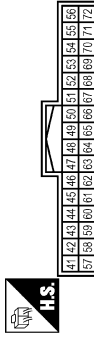
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24           | P             | -                           |
| 31           | L             | -                           |
| 33           | B             | -                           |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M66                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH                  |



| Terminal No. | Color of Wire | Signal Name [Specification]    |
|--------------|---------------|--------------------------------|
| 28           | R             | VEHICLE SPEED SIGNAL (3-PULSE) |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M67                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH43FW-NH                  |



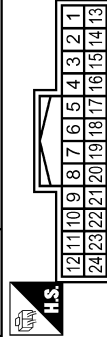
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56           | L             | GAIN-H                      |
| 72           | P             | GAIN-L                      |

|                |                    |
|----------------|--------------------|
| Connector No.  | M69                |
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | MS2BEL-M2-LC       |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | W             | -                           |
| 3            | LG            | -                           |
| 5            | O             | -                           |

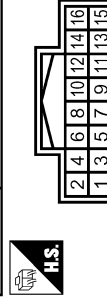
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|----------------|-----------------------------|
| Connector No.  | M71                         |
| Connector Name | DISPLAY UNIT (WITHOUT NAVI) |
| Connector Type | TH44FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 2            | Y             | INVERTER VCC                |
| 3            | O             | SIGNAL VCC                  |
| 4            | V             | AUX IMAGE GND               |
| 5            | Y             | SHIELD                      |
| 6            | L             | RGB (G.GREEN) SIGNAL        |
| 7            | SHIELD        | SHIELD                      |
| 8            | R             | HP                          |
| 9            | B             | RGB AREA (YS) SIGNAL        |
| 11           | V             | COMM (CONT->DISP)           |
| 13           | BR            | INVERTER GND                |

|    |        |                     |
|----|--------|---------------------|
| 14 | LG     | SIGNAL GND          |
| 15 | SB     | AUX IMAGE SIGNAL    |
| 16 | BR     | COMP SYNC           |
| 17 | G      | RGB (R.RED)         |
| 18 | P      | RGB (B.BLUE) SIGNAL |
| 19 | W      | RGB SYNC            |
| 20 | G      | VP                  |
| 21 | SHIELD | SHIELD              |
| 22 | BR     | COMM (DISP->CONT)   |
| 23 | SHIELD | SHIELD              |

|                |                      |
|----------------|----------------------|
| Connector No.  | M72                  |
| Connector Name | MULTIFUNCTION SWITCH |
| Connector Type | TH16FW-NH            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 3            | L             | ACC                         |
| 6            | G             | AV COMM (H)                 |
| 8            | R             | AV COMM (L)                 |
| 9            | BR            | SW GND                      |
| 14           | SB            | EJECT SIGNAL                |

JCNWA1746GE

# SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

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## BASE AUDIO

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|----------------|--------------------------------|
| Connector No.  | M81                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH16FW-GSZ                     |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2            | L             | FRONT DOOR SPEAKER LH (+)   |
| 3            | W             | FRONT DOOR SPEAKER LH (-)   |
| 4            | LG            | REAR DOOR SPEAKER LH (+)    |
| 5            | SB            | REAR DOOR SPEAKER LH (-)    |
| 6            | P             | STRG SW A                   |
| 7            | V             | ACC                         |
| 9            | L             | ILLUMINATION                |
| 11           | BR            | FRONT DOOR SPEAKER RH (+)   |
| 12           | R             | FRONT DOOR SPEAKER RH (-)   |
| 13           | L             | REAR DOOR SPEAKER RH (+)    |
| 14           | P             | REAR DOOR SPEAKER RH (-)    |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M83                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | SB            | AUX IMAGE SIGNAL            |
| 37           | V             | AUX IMAGE GND               |
| 38           | P             | RGB (EBLUE) SIGNAL          |
| 39           | L             | RGB (GGREEN) SIGNAL         |
| 40           | G             | RGB (RRRED) SIGNAL          |
| 41           | W             | RGB SYNC                    |
| 42           | SHIELD        | SHIELD                      |
| 43           | B             | RGB AREA (YS) SIGNAL        |
| 44           | B             | RGB AREA (YS) SIGNAL        |
| 45           | BR            | COMM (DISP->CONT)           |
| 46           | R             | HP                          |
| 46           | LG            | SIGNAL GND                  |

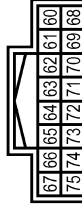
|    |   |             |
|----|---|-------------|
| 15 | B | STRG SW GND |
| 16 | L | STRG SW B   |
| 18 | Y | BATTERY     |
| 20 | B | GND         |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M82                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH25W                          |



| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 21           | W             | SATELLITE SOUND SIGNAL LH (-) |
| 22           | B             | SATELLITE SOUND SIGNAL LH (+) |
| 23           | R             | SATELLITE SOUND SIGNAL RH (-) |
| 24           | G             | SATELLITE SOUND SIGNAL RH (+) |
| 25           | SHIELD        | SHIELD                        |
| 26           | SHIELD        | SHIELD                        |
| 28           | P             | REQUEST (SAT->CONT)           |
| 29           | G             | COMM (SAT->CONT)              |
| 30           | L             | COMM (CONT->SAT)              |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M84                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH16FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 66           | G             | AUX IMAGE SIGNAL            |
| 73           | SHIELD        | SHIELD                      |
| 74           | R             | AUX IMAGE GND               |

|    |        |                   |
|----|--------|-------------------|
| 47 | O      | SIGNAL VCC        |
| 48 | BR     | COMP SYNC         |
| 49 | Y      | SHIELD            |
| 50 | SHIELD | SHIELD            |
| 55 | SHIELD | SHIELD            |
| 56 | Y      | COMM (CONT->DISP) |
| 57 | G      | VP                |
| 58 | BR     | INVERTER GND      |
| 59 | Y      | INVERTER VCC      |

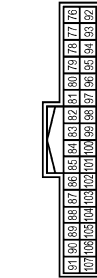
# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## BASE AUDIO

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M85                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH32FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification]       |
|--------------|---------------|-----------------------------------|
| 84           | SHIELD        | SHIELD                            |
| 85           | B             | GND                               |
| 86           | L             | CAN-H                             |
| 87           | P             | CAN-L                             |
| 88           | G             | AV COMM (H) [Without BOSE system] |
| 89           | R             | AV COMM (L) [Without BOSE system] |
| 90           | SB            | AV COMM (H)                       |
| 91           | Y             | AV COMM (L)                       |
| 95           | R             | AUX SOUND SIGNAL RH (+)           |
| 96           | W             | AUX SOUND SIGNAL LH (+)           |
| 97           | B             | SHIELD                            |

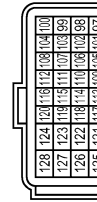
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|----------------|-----------------|
| Connector No.  | M117            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH32MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 80           | W             | -                           |
| 81           | SHIELD        | -                           |
| 82           | P             | -                           |
| 83           | L             | -                           |
| 84           | G             | -                           |
| 85           | SHIELD        | -                           |
| 86           | W             | -                           |
| 87           | B             | -                           |
| 88           | R             | -                           |
| 89           | G             | -                           |
| 90           | Y             | -                           |

|     |    |                         |
|-----|----|-------------------------|
| 101 | BR | SW GND                  |
| 103 | SR | EJECT SIGNAL            |
| 104 | G  | IGNITION                |
| 105 | O  | REVERSE                 |
| 106 | SR | PARKING BRAKE           |
| 107 | GR | VEHICLE SPEED (8-PULSE) |

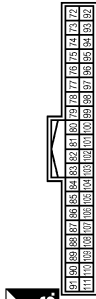
|                |                   |
|----------------|-------------------|
| Connector No.  | M107              |
| Connector Name | ECM               |
| Connector Type | RH24FY-EZ2-R-LH-Z |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 113          | P             | VEHCAN-LI                   |
| 114          | L             | VEHCAN-HI                   |

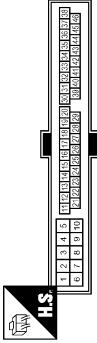
|     |   |   |
|-----|---|---|
| 99  | P | - |
| 100 | L | - |

|                |                           |
|----------------|---------------------------|
| Connector No.  | M122                      |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH                 |



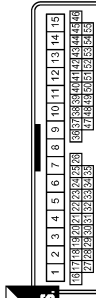
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 90           | P             | CAN-L                       |
| 91           | L             | CAN-H                       |

|                |              |
|----------------|--------------|
| Connector No.  | M116         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK38MW-NS10  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 30           | LG            | -                           |
| 31           | W             | -                           |
| 41           | O             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M124         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | R             | -                           |
| 37           | BR            | -                           |

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# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

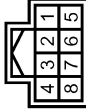
## BASE AUDIO

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|----------------|----------------------------------|
| Connector No.  | M184                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH A/T) |
| Connector Type | A08FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | SOUND SIGNAL RH (+)         |
| 2            | B             | SOUND SIGNAL GND            |
| 3            | W             | SOUND SIGNAL LH (+)         |
| 7            | G             | AUX IMAGE SIGNAL            |
| 8            | R             | AUX IMAGE GND               |

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| Connector No.  | M155         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



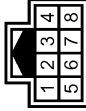
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | R             | -                           |
| 4            | W             | -                           |
| 5            | B             | -                           |
| 6            | B             | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M303                              |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY                           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 14           | W             | -                           |
| 15           | L             | -                           |
| 17           | BR            | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M381         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08MF-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | BR            | - [Without NAV]             |
| 4            | Y             | - [Without NAV]             |
| 5            | SHIELD        | -                           |
| 6            | SHIELD        | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

|                |                                  |
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| Connector No.  | M382                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH M/T) |
| Connector Type | A08FW                            |



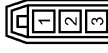
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | BR            | - [Without NAV]             |
| 2            | B             | -                           |
| 3            | Y             | - [Without NAV]             |
| 7            | G             | -                           |
| 8            | R             | -                           |

|                |                               |
|----------------|-------------------------------|
| Connector No.  | M370                          |
| Connector Name | AV CONTROL UNIT (WITHOUT NAV) |
| Connector Type | GT13SH-2/IS-HU                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | FM SUB                      |
| 34           | -             | AM-FM MAIN                  |
| 35           | -             | ANTENNA AMP. ON SIGNAL      |

|                |                |
|----------------|----------------|
| Connector No.  | M375           |
| Connector Name | WIRE TO WIRE   |
| Connector Type | GT13SC-2/IS-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | M376             |
| Connector Name | WIRE TO WIRE     |
| Connector Type | GT13SCN-2/IPP-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

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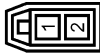
# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO WITHOUT NAVIGATION]

## BASE AUDIO

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|----------------|----------------|
| Connector No.  | M378           |
| Connector Name | ANTENNA AMP.   |
| Connector Type | GTJ3SC-1/1S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | —             | ANTENNA AMP. ON SIGNAL      |
| 2            | —             | AM-FM MAIN                  |

|                |                     |
|----------------|---------------------|
| Connector No.  | M379                |
| Connector Name | GLASS ANTENNA (SUB) |
| Connector Type | P01FB-A             |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | —             | —                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | M381                 |
| Connector Name | GLASS ANTENNA (MAIN) |
| Connector Type | P01FB-A              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | —             | —                           |

JCNWA1750GE

# MULTI AV SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## SYMPTOM DIAGNOSIS

### MULTI AV SYSTEM SYMPTOMS

#### Symptom Table

INFOID:000000004238513

#### OPERATION

| Symptoms  | Check items  | Possible malfunction location / Action to take   |
|---|--|--|
| Multifunction switch and preset switch operation does not work. | <ul style="list-style-type: none"> <li>All switches cannot be operated.</li> <li>"MULTI AV" is displayed with CONSULT-III.</li> </ul>  | Perform CONSULT-III self-diagnosis. Refer to <a href="#">AV-26, "CONSULT - III Function (MULTI AV)"</a> .  |
|   | <ul style="list-style-type: none"> <li>All switches cannot be operated.</li> <li>"MULTI AV" is not displayed on system selection screen the CONSULT-III is initialized.</li> </ul> | AV control unit power supply and ground circuit malfunction. Refer to <a href="#">AV-39, "AV CONTROL UNIT : Diagnosis Procedure"</a> .   |
|   | Only specified switch cannot be operated.  | Multifunction switch or preset switch malfunction. Perform multifunction switch and preset switch self-diagnosis function. Refer to <a href="#">AV-19, "Diagnosis Description"</a> . |

#### RELATED TO RGB IMAGE

Trouble diagnosis chart by symptom

| Symptoms                                | Check items  | Possible malfunction location / Action to take   |
|---|--|--|
| RGB image is not shown.                 | There is malfunction in the CONSULT-III self-diagnosis result. | Perform CONSULT-III self-diagnosis. Refer to <a href="#">AV-26, "CONSULT - III Function (MULTI AV)"</a> .  |
|   | There is no malfunction in CONSULT-III self-diagnosis results. | <ul style="list-style-type: none"> <li>Display unit power supply circuit. Refer to <a href="#">AV-39, "DISPLAY UNIT : Diagnosis Procedure"</a>.</li> <li>Vertical synchronizing (VP) signal circuit. Refer to <a href="#">AV-48, "Diagnosis Procedure"</a>.</li> </ul> |
| Color of RGB image is not proper.       | Light blue (Cyan) tint.  | RGB signal (R: red) circuit. Refer to <a href="#">AV-42, "Diagnosis Procedure"</a> .   |
|   | Purple (Magenta) tint.   | RGB signal (G: green) circuit. Refer to <a href="#">AV-43, "Diagnosis Procedure"</a> .   |
|   | Screen looks yellowish.  | RGB signal (B: blue) circuit. Refer to <a href="#">AV-44, "Diagnosis Procedure"</a> .  |
| RGB screen is rolling.                  | —  | RGB synchronizing signal circuit. Refer to <a href="#">AV-45, "Diagnosis Procedure"</a> .  |
| Fuel economy display is malfunctioning. | There is malfunction in the CONSULT-III self-diagnosis result. | Perform CONSULT-III self-diagnosis. Refer to <a href="#">AV-26, "CONSULT - III Function (MULTI AV)"</a> .  |
|   | There is no malfunction in CONSULT-III self-diagnosis results. | Ignition signal circuit malfunction. Refer to <a href="#">AV-39, "AV CONTROL UNIT : Diagnosis Procedure"</a> .   |

#### RELATED TO AUDIO

Trouble diagnosis chart by symptom

| Symptoms                  | Check items   | Possible malfunction location / Action to take                                   |
|---------------------------|---|--|
| The CD cannot be removed. | —   | CD eject signal circuit. Refer to <a href="#">AV-51, "Diagnosis Procedure"</a> . |
| Audio sound is not heard. | No sound from all speakers.   | AV control unit. Refer to <a href="#">AV-114, "Exploded View"</a> .              |
|                           | Sound is not heard only from the specific places (RH front, RH rear, LH front and LH rear). | Sound signal circuit of malfunctioning system.                                   |

## MULTI AV SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

| Symptoms                                    | Check items  | Possible malfunction location / Action to take   |
|---|--|--|
| Satellite radio is not received.            | "ANTENNA" is not displayed even when the channel is turned to 0 in Satellite radio mode. | Perform the following inspection procedure.<br>1. Check satellite radio antenna mounting nut for looseness.<br><b>NOTE:</b><br>Tightening torque: 6.5 N·m (0.66 kg·m, 58 in·lb.)<br>2. Visually check for satellite radio antenna feeder.<br>3. Replace the satellite radio antenna.<br>Refer to <a href="#">AV-121, "Exploded View"</a> .<br>4. Replace the satellite radio tuner.<br>Refer to <a href="#">AV-120, "Exploded View"</a> .            |
|   | "ANTENNA" is displayed when the channel is turned to 0 in Satellite radio mode.          | Perform the following inspection procedure.<br>1. Check the connection between Satellite radio tuner and antenna feeder.<br>2. Check the connection between Satellite radio antenna and antenna feeder.<br>3. Check Antenna feeder for open circuit.<br>4. Replace the satellite radio antenna.<br>Refer to <a href="#">AV-121, "Exploded View"</a> .<br>5. Replace the satellite radio tuner.<br>Refer to <a href="#">AV-120, "Exploded View"</a> . |
| The sound of Satellite radio is not heard.  | Other audio sounds are normal.   | Satellite radio sound signal circuit malfunction between satellite radio tuner and AV control unit.  |
| It does not change to Satellite radio mode. | There is malfunction in the CONSULT-III self-diagnosis result.                           | Perform CONSULT-III self-diagnosis.<br>Refer to <a href="#">AV-26, "CONSULT - III Function (MULTI AV)"</a> .   |
| AM/FM radio is not received.                | Other audio sounds are normal.   | <ul style="list-style-type: none"> <li>• Antenna amp. ON signal circuit.</li> <li>• Antenna feeder.</li> </ul>   |

### RELATED TO STEERING SWITCH

Trouble diagnosis chart by symptom

| Symptoms   | Inspection location / Probable malfunction location  |
|--|--|
| None of the steering switch operations work.                                   | Steering switch signal GND circuit.<br>Refer to <a href="#">AV-59, "Diagnosis Procedure"</a> . |
| Only specified switch cannot be operated.                                      | Steering switch. Refer to <a href="#">AV-124, "Exploded View"</a> .                            |
| "SOURCE", "MENU UP", "MENU DOWN" switches of steering switch are not operated. | Steering switch signal A circuit.<br>Refer to <a href="#">AV-55, "Diagnosis Procedure"</a> .   |
| "VOL UP", "VOL DOWN" switches of steering switch are not operated.             | Steering switch signal B circuit.<br>Refer to <a href="#">AV-57, "Diagnosis Procedure"</a> .   |

### RELATED TO AUXILIARY INPUT

**NOTE:**

Check that there is no malfunction of AUX equipment main body before performing a diagnosis.

Trouble diagnosis chart by symptom

| Symptoms   | Check items   | Probable malfunction location   |
|--|---|---|
| No voice sound is heard when AUX mode is selected. | Voice sound is heard when other modes are selected. | AUX sound signal circuits malfunction between auxiliary input jacks and AV control unit.  |
| Image is not displayed when AUX mode is selected.  | —   | <ul style="list-style-type: none"> <li>• AUX image signal circuit malfunction between auxiliary input jacks and AV control unit.<br/>                             Refer to <a href="#">AV-49, "Diagnosis Procedure"</a>.</li> <li>• Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and display unit.<br/>                             Refer to <a href="#">AV-47, "Diagnosis Procedure"</a>.</li> <li>• RGB area (YS) signal circuit malfunction between AV control unit and display unit.<br/>                             Refer to <a href="#">AV-46, "Diagnosis Procedure"</a>.</li> </ul> |
| It does not change from AUX mode to other modes.   | —   | Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit.<br>Refer to <a href="#">AV-48, "Diagnosis Procedure"</a> .   |

# NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

## NORMAL OPERATING CONDITION

### Description

INFOID:000000004238514

### BASIC OPERATIONS

| Symptom  | Possible cause   | Possible solution  |
|--|--|--|
| No image is displayed.   | The brightness is at the lowest setting.                                 | Adjust the brightness of the display.                                      |
|  | The system in the video mode.  | Press <b>&lt;DISC&gt;</b> to change the mode.                              |
|  | The display is turned off.   | Press <b>&lt;Day/Night&gt;</b> to turn on the display.                     |
| The screen is too dim. The movement is slow.                   | The temperature in the interior of the vehicle is low.                   | Wait until the interior of the vehicle has warmed up.                      |
| Some pixels in the display are darker or brighter than others. | This condition is an inherent characteristic of liquid crystal displays. | This is not a malfunction.   |
| Some menu items cannot be selected.                            | Some menu items become unavailable while the vehicle is driven.          | Park the vehicle in a safe location, and then operate the multi AV system. |

### RELATED TO AUDIO

- The majority of the audio malfunctions are the result of outside causes (bad CD/cassette, electromagnetic interference, etc.). Check the symptoms below to diagnose the malfunction.
- The vehicle itself can be a source of noise if noise prevention parts or electrical equipment is malfunctioning. Check if noise is caused and/or changed by engine speed, ignition switch turned to each position, and operation of each piece of electrical equipment, and then determine the cause.

**NOTE:**

- CD-R is not guaranteed to play because they can contain compressed audio (MP3, WMA) or could be incorrectly mastered by the customer on a computer.
- Check if the CDs carry the Compact Disc Logo. If not, the disc is not mastered to the "red book" Compact Disc Standard and may not play.

| Symptom  | Cause and Counter measure   |
|--|---|
| Cannot play  | Check if the CD was inserted correctly.   |
|  | Check if the CD is scratched or dirty.  |
|  | Check if there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.  |
|  | If there is a temperature increase error, the player will play correctly after it returns to the normal temperature.  |
|  | If there is a mixture of music CD files (CD-DA data) and MP3/WMA files on a CD, only the music CD files (CD-DA data) will be played.  |
|  | Files with extensions other than ".MP3", ".WMA", ".mp3", or ".wma" cannot be played. In addition, the character codes and number of characters for folder names and file names should be in compliance with the specifications. |
|  | Check if the disc or the file is generated in an irregular format. This may occur depending on the variation or the setting of MP3/WMA writing applications or other text editing applications.                                 |
|  | Check if the finalization process, such as session close and disc close, is done for the disc.  |
| Poor sound quality   | Check if the CD is scratched or dirty.  |
|  | Check if the CD is protected by copyright.  |
| It takes a relatively long time before the music starts playing. | Check if the CD is scratched or dirty.  |
| Music cuts off or skips  | If there are many folder or file levels on the MP3/WMA CD, or if it is a multisession disc, some time may be required before the music starts playing.  |
| Skipping with high bit rate files                                | The writing software and hardware combination might not match, or the writing speed, writing depth, writing width might not match the specifications. Try using the slowest writing speed.                                      |
|  | Skipping may occur with large quantities if data such as for high bit rate data.  |

## NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

| Symptom  | Cause and Counter measure  |
|--|--|
| Move immediately to the next song when playing   | When a non-MP3/WMA file has been given an extension of ".MP3", ".WMA", ".mp3", or ".wma", or when play is prohibited by copyright protection, the player will skip to the next song. |
| The songs do not play back in the desired order. | The playback order is the order in which the files were written by the software, so the files might not play in the desired order.   |

Noise resulting from variations in field strength, such as fading noise and multi-path noise, or external noise from trains and other sources, is not a malfunction.

**NOTE:**

- Fading noise: This noise occurs because of variations in the field strength in a narrow range due to mountains or buildings blocking the signal.
- Multi-path noise: This noise results from a time difference between the broadcast waves directly from the station arriving at the antenna and the waves reflected by mountains or buildings.

# PRECAUTIONS

< PRECAUTION >

[BASE AUDIO WITHOUT NAVIGATION]

## PRECAUTION

### PRECAUTIONS

#### Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000004238515

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

#### **WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

#### PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

#### **WARNING:**

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

#### Precaution for Trouble Diagnosis

INFOID:000000004238516

#### AV COMMUNICATION SYSTEM

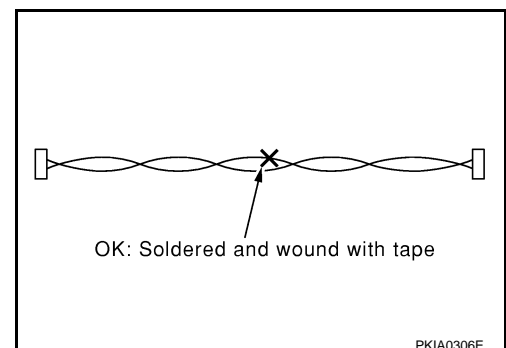
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

#### Precaution for Harness Repair

INFOID:000000004238517

#### AV COMMUNICATION SYSTEM

- Solder the repaired parts, and wrap with tape. [Frays of twisted line must be within 110 mm (4.33 in).]

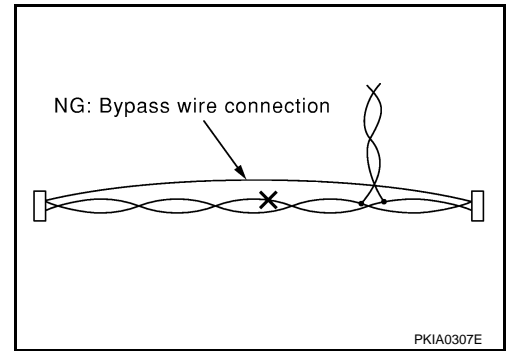


## PRECAUTIONS

< PRECAUTION >

[BASE AUDIO WITHOUT NAVIGATION]

- Do not perform bypass wire connections for the repair parts. (The spliced wire will become separated and the characteristics of twisted line will be lost.)





# PREPARATION

< PREPARATION >

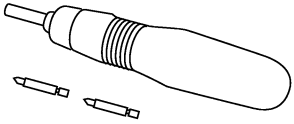
[BASE AUDIO WITHOUT NAVIGATION]

## PREPARATION

### PREPARATION

#### Commercial Service Tools

INFOID:000000004238518

| Tool name  | Description                     |
|--|---------------------------------|
| <p>Power tool</p>  <p>PBIC0191E</p> | <p>Loosening bolts and nuts</p> |

A  
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AV  
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P

AV

## AV CONTROL UNIT

< REMOVAL AND INSTALLATION >

[BASE AUDIO WITHOUT NAVIGATION]

# REMOVAL AND INSTALLATION

## AV CONTROL UNIT

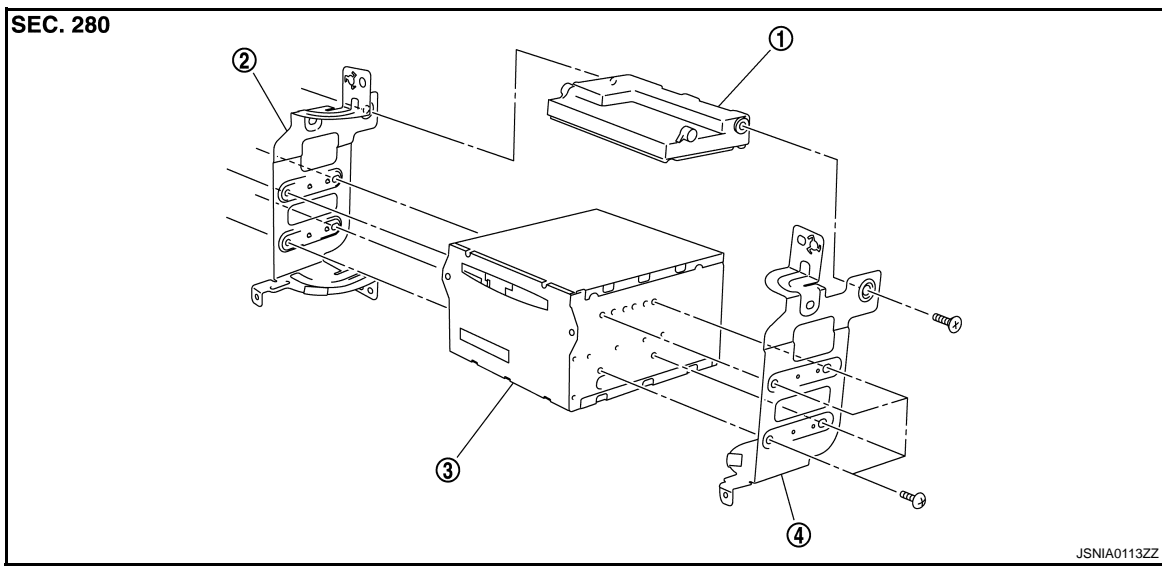
### Exploded View

INFOID:000000004238519

#### REMOVAL

Refer to [IP-11. "Exploded View"](#).

#### DISASSEMBLY



1. Unified meter and A/C amp.
2. Bracket LH
3. AV control unit
4. Bracket RH

### Removal and Installation

INFOID:000000004238520

#### REMOVAL

1. Remove display unit.
2. Remove AV control unit with a unified meter and A/C amp. as a single unit from the body.
3. Remove bracket screws, and then remove AV control unit.

#### INSTALLATION

Installation is the reverse order of removal.

#### **CAUTION:**

Since AV control unit connector and unified meter and A/C amp. connector have the same form, be careful not to insert them wrongly.

DISPLAY UNIT

Exploded View

INFOID:000000004238521

Refer to [IP-11, "Exploded View"](#).

Removal and Installation

INFOID:000000004238522

REMOVAL

1. Remove cluster lid D. Refer to [IP-11, "Exploded View"](#).
2. Remove display unit with bracket as a single unit.

INSTALLATION

Installation is the reverse order of removal.

A  
B  
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AV

# FRONT DOOR SPEAKER

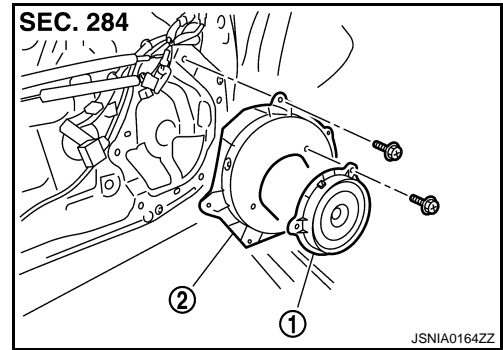
< REMOVAL AND INSTALLATION >

[BASE AUDIO WITHOUT NAVIGATION]

## FRONT DOOR SPEAKER

### Exploded View

INFOID:000000004238523



1. Front door speaker
2. Speaker bracket

### Removal and Installation

INFOID:000000004238524

#### REMOVAL

1. Remove front door finisher. Refer to [INT-11, "Exploded View"](#).
2. Remove the front door speaker from speaker bracket.

#### INSTALLATION

Installation is the reverse order of removal.

# REAR DOOR SPEAKER

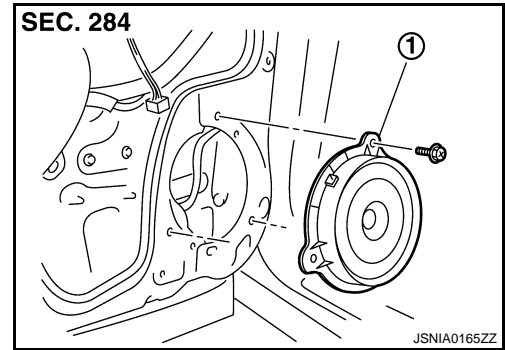
< REMOVAL AND INSTALLATION >

[BASE AUDIO WITHOUT NAVIGATION]

## REAR DOOR SPEAKER

### Exploded View

INFOID:000000004238525



1. Rear door speaker

### Removal and Installation

INFOID:000000004238526

#### REMOVAL

1. Remove rear door finisher. Refer to [INT-11. "Exploded View"](#).
2. Remove rear door speaker from rear door.

#### INSTALLATION

Installation is the reverse order of removal.

A  
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AV

# TWEETER

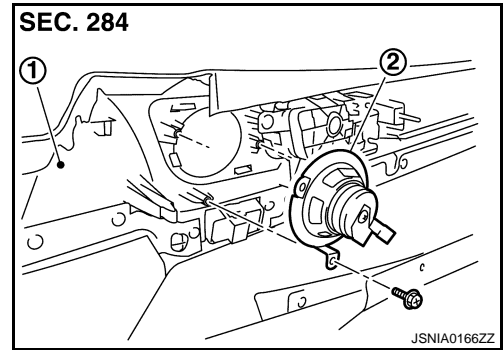
< REMOVAL AND INSTALLATION >

[BASE AUDIO WITHOUT NAVIGATION]

## TWEETER

### Exploded View

INFOID:000000004238527



1. Door finisher
2. Tweeter

### Removal and Installation

INFOID:000000004238528

#### REMOVAL

1. Remove front door finisher. Refer to [INT-11, "Exploded View"](#).
2. Remove the tweeter from the front door finisher.

#### INSTALLATION

Installation is the reverse order of removal.

# ANTENNA AMP.

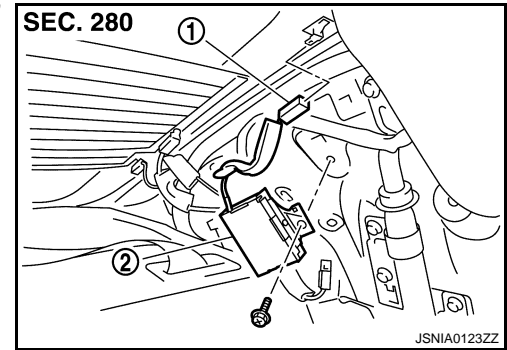
< REMOVAL AND INSTALLATION >

[BASE AUDIO WITHOUT NAVIGATION]

## ANTENNA AMP.

### Exploded View

INFOID:000000004238529



1. AM-FM main connector
2. Antenna amp.

### Removal and Installation

INFOID:000000004238530

#### REMOVAL

1. Remove rear pillar finisher LH. Refer to [INT-14, "Exploded View"](#).
2. Remove antenna amp. from rear pillar LH.

#### INSTALLATION

Installation is the reverse order of removal.

A  
B  
C  
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AV  
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# SATELLITE RADIO TUNER

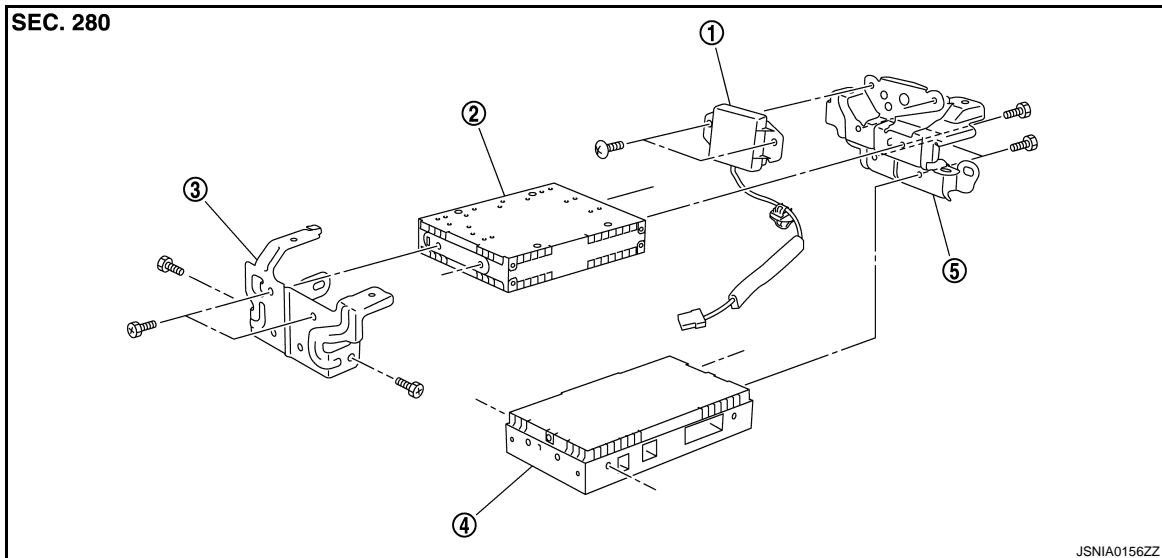
< REMOVAL AND INSTALLATION >

[BASE AUDIO WITHOUT NAVIGATION]

## SATELLITE RADIO TUNER

### Exploded View

INFOID:000000004238531



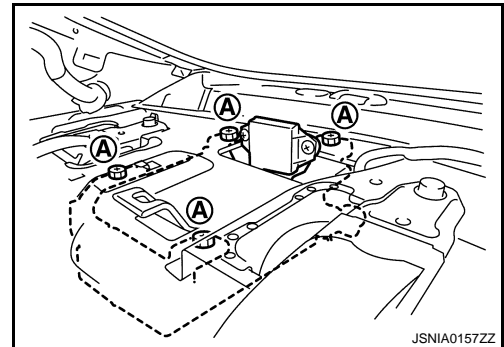
- |                     |                          |                    |
|---------------------|--------------------------|--------------------|
| 1. TEL antenna      | 2. Satellite radio tuner | 3. Bracket (front) |
| 4. TEL adapter unit | 5. Bracket (rear)        |                    |

### Removal and Installation

INFOID:000000004238532

#### REMOVAL

1. Remove trunk front finisher. Refer to [INT-28, "Exploded View"](#).
2. Remove rear parcel shelf finisher. Refer to [INT-18, "Exploded View"](#).
3. Remove screws (A) from inside the cabin, and remove TEL adapter unit and TEL antenna as a single unit from trunk room side.
4. Remove bracket screws and remove TEL adapter unit and satellite radio tuner.



#### INSTALLATION

Installation is the reverse order of removal.



# SATELLITE RADIO ANTENNA

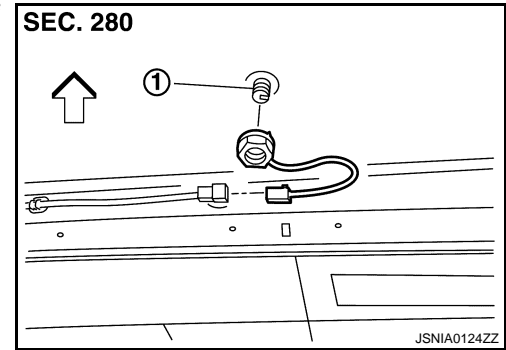
< REMOVAL AND INSTALLATION >

[BASE AUDIO WITHOUT NAVIGATION]

## SATELLITE RADIO ANTENNA

### Exploded View

INFOID:000000004468213



1. Satellite radio antenna

←: Vehicle front

### Removal and Installation

INFOID:000000004468214

#### REMOVAL

1. Remove head lining assembly (rear) to secure work space between vehicle and headlining. Refer to [INT-22. "NORMAL ROOF : Exploded View"](#) (normal roof models) or [INT-25. "SUNROOF : Exploded View"](#) (sunroof models).
2. Remove nut, and then remove satellite radio antenna from roof panel.

#### INSTALLATION

Installation is the reverse order of removal.

**Satellite radio antenna mounting nut**  : 6.5 N-m (0.66 kg-m, 58 in-lb)

#### **CAUTION:**

**Be careful about tightening torque. Antenna sensitivity becomes poor, and when it is excessive, roof panel may be deformed, when satellite radio antenna mounting nut tightening torque is loose.**

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P

AV

# MULTIFUNCTION SWITCH

< REMOVAL AND INSTALLATION >

[BASE AUDIO WITHOUT NAVIGATION]

## MULTIFUNCTION SWITCH

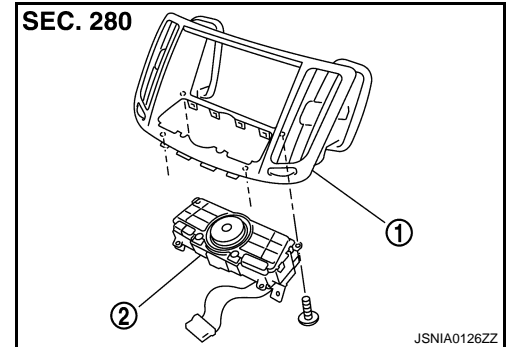
### Exploded View

INFOID:000000004238535

#### REMOVAL

Refer to [IP-11, "Exploded View"](#).

#### DISASSEMBLY



1. Center ventilator grille
2. Multifunction switch

### Removal and Installation

INFOID:000000004238536

#### REMOVAL

1. Remove cluster lid D. Refer to [IP-11, "Exploded View"](#).
2. Remove multi function switch with center ventilator grille as a single unit.
3. Remove multi function switch from center ventilator.

#### INSTALLATION

Installation is the reverse order of removal.

# PRESET SWITCH

< REMOVAL AND INSTALLATION >

[BASE AUDIO WITHOUT NAVIGATION]

## PRESET SWITCH

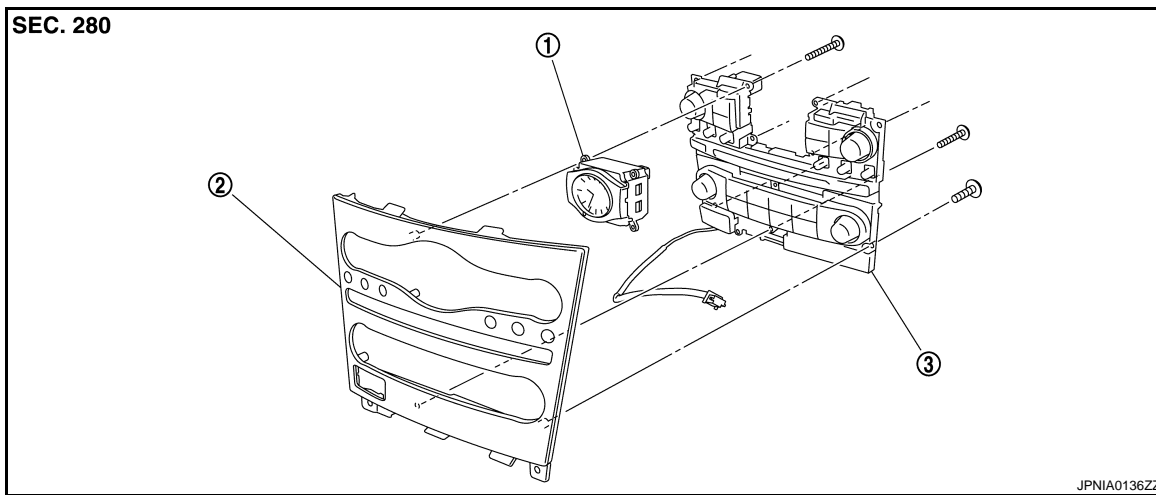
### Exploded View

INFOID:000000004238537

#### REMOVAL

Refer to [IP-11, "Exploded View"](#).

#### DISASSEMBLY



1. Clock

2. Cluster lid C

3. Preset switch

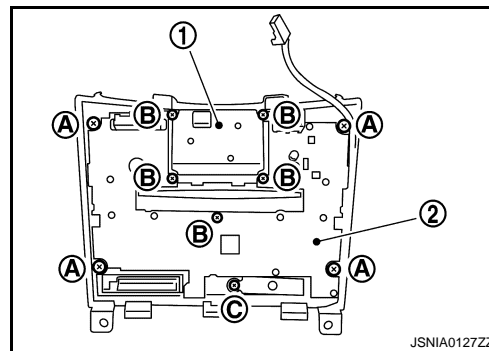
### Removal and Installation

INFOID:000000004468208

#### REMOVAL

1. Remove cluster lid C. Refer to [IP-11, "Exploded View"](#).
2. Remove preset switch screws (A), (B), and (C), and then remove preset switch (2) from cluster lid C.

1. Clock



#### INSTALLATION

Installation is the reverse order of removal.

#### NOTE:

When installing preset switch, do not allow the print wire that connects preset switch and multifunction switch to get caught in between AV control unit and preset switch.

A  
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L  
M  
AV  
O  
P

## STEERING SWITCH

< REMOVAL AND INSTALLATION >

[BASE AUDIO WITHOUT NAVIGATION]

---

### STEERING SWITCH

#### Exploded View

INFOID:000000004238539

Refer to [ST-17, "Exploded View"](#).

#### Removal and Installation

INFOID:000000004238540

#### REMOVAL

Refer to [ST-17, "Removal and Installation"](#).

#### INSTALLATION

Installation is the reverse order of removal.

# AUXILIARY INPUT JACKS

< REMOVAL AND INSTALLATION >

[BASE AUDIO WITHOUT NAVIGATION]

## AUXILIARY INPUT JACKS

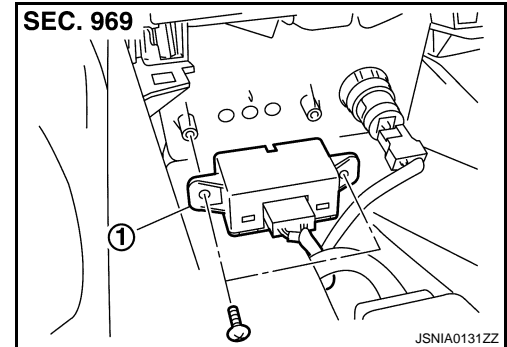
### Exploded View

INFOID:000000004238541

#### REMOVAL

Refer to [IP-23, "Exploded View"](#).

#### DISASSEMBLY



1. Auxiliary input jacks

### Removal and Installation

INFOID:000000004238542

#### REMOVAL

1. Remove center console. (M/T models) Refer to [IP-23, "Exploded View"](#).  
Remove center console cup. (A/T models) Refer to [IP-23, "Exploded View"](#).
2. Remove auxiliary input jacks from center console. (M/T models)  
Remove auxiliary input jacks from center console cup. (A/T models)

#### INSTALLATION

Installation is the reverse order of removal.

A  
B  
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AV

# ANTENNA FEEDER (RADIO)

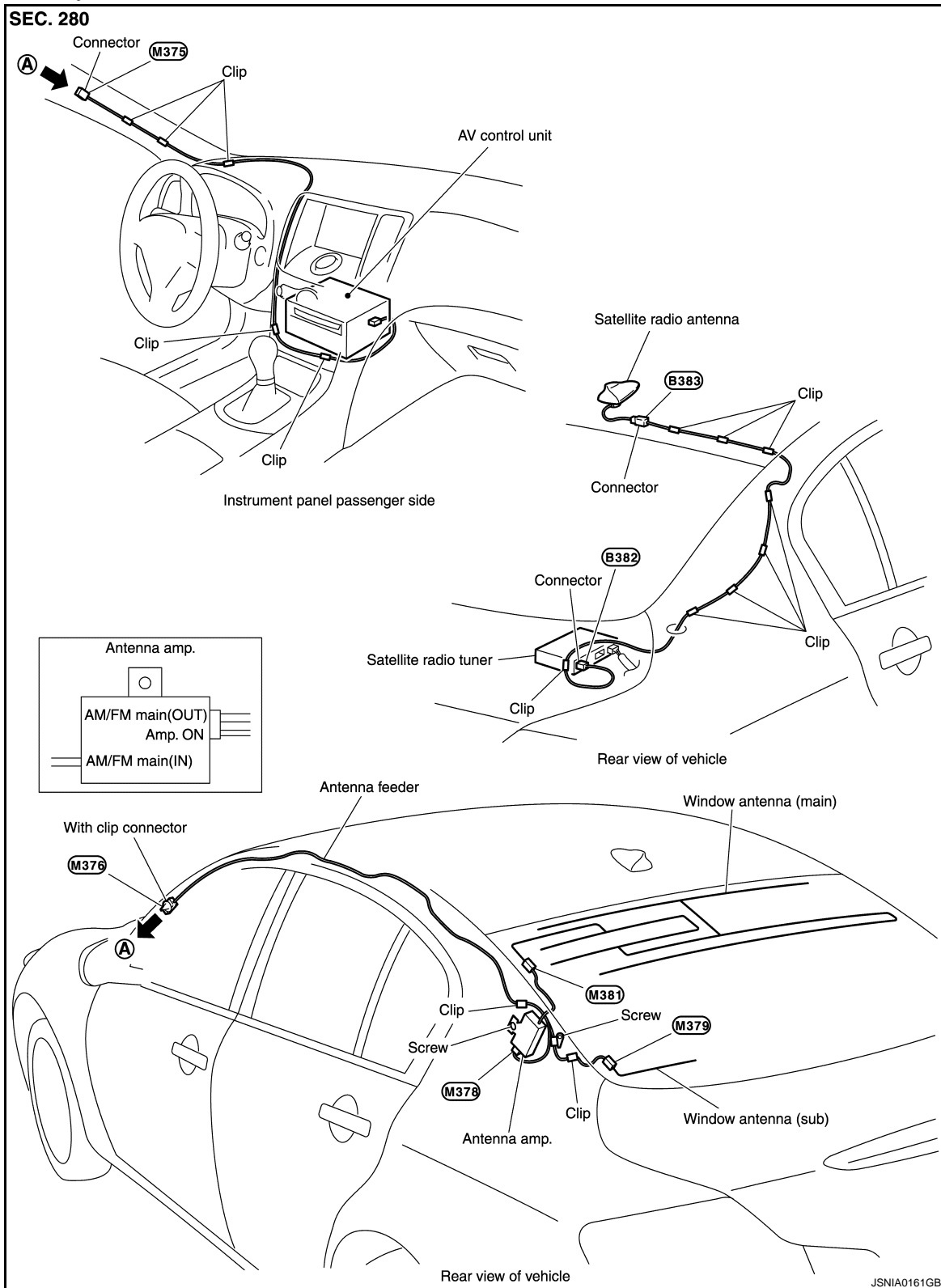
< REMOVAL AND INSTALLATION >

[BASE AUDIO WITHOUT NAVIGATION]

## ANTENNA FEEDER (RADIO)

### Harness Layout

INFOID:000000004238543



# ANTENNA FEEDER (SATELLITE RADIO)

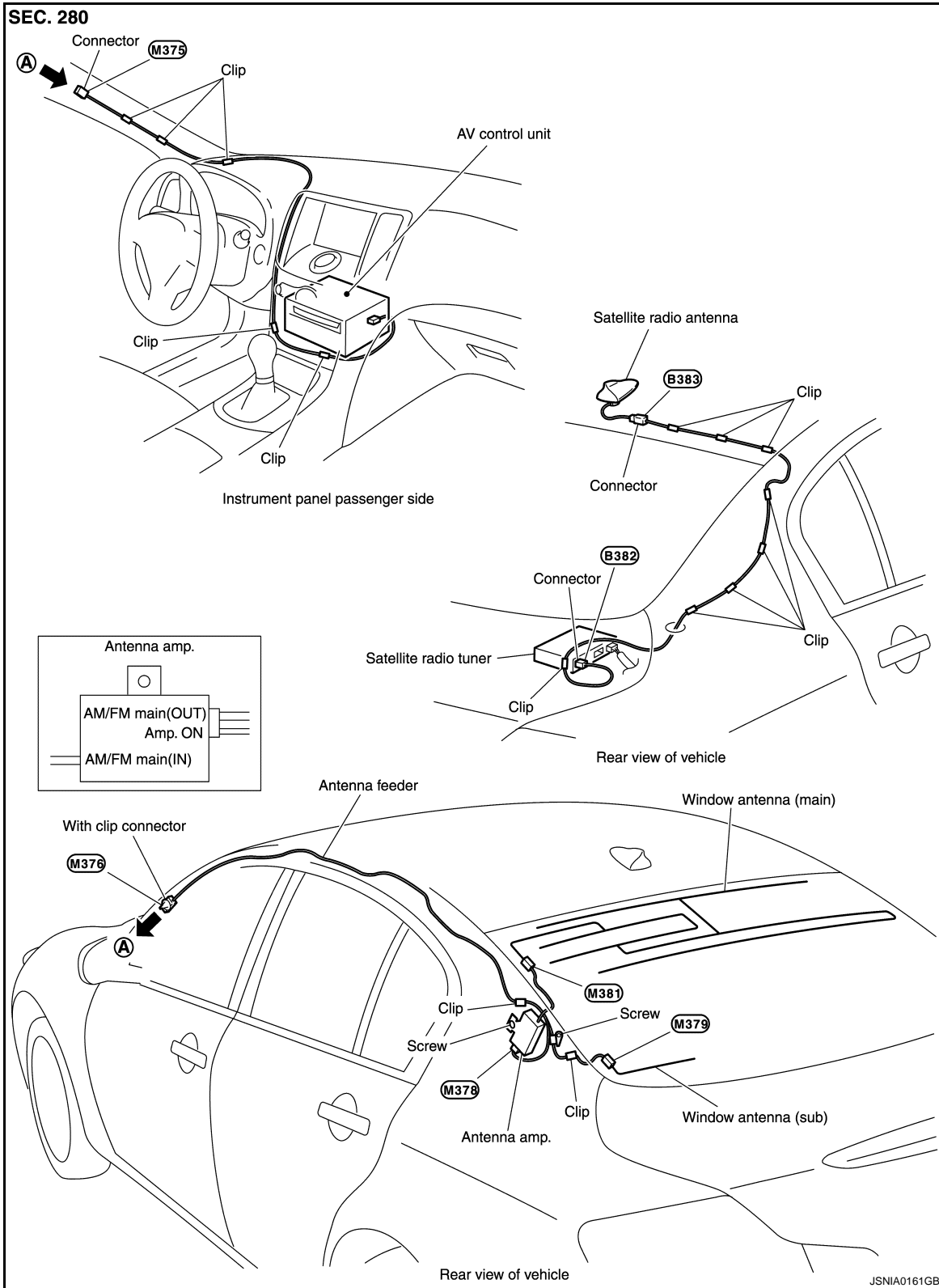
< REMOVAL AND INSTALLATION >

[BASE AUDIO WITHOUT NAVIGATION]

## ANTENNA FEEDER (SATELLITE RADIO)

### Harness Layout

INFOID:000000004238544



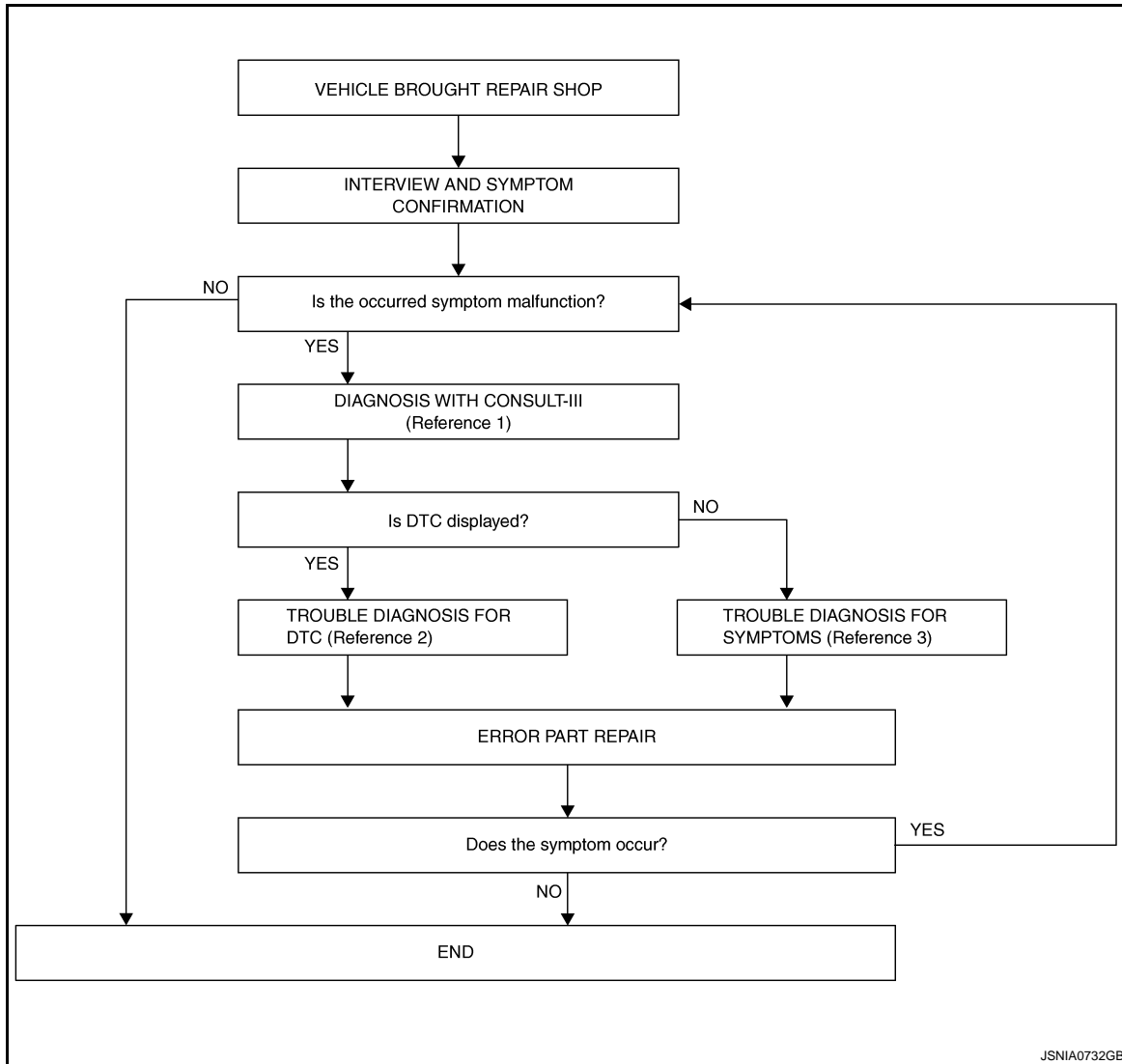
## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORKFLOW

#### Work Flow

INFOID:000000004238545

#### OVERALL SEQUENCE



JSNIA0732GB

- Reference 1... Refer to [AV-150, "CONSULT - III Function \(MULTI AV\)"](#).
- Reference 2... Refer to [AV-217, "DTC Index"](#).
- Reference 3... Refer to [AV-316, "Symptom Table"](#).

#### DETAILED FLOW

##### 1. INTERVIEW AND SYMPTOM CONFIRMATION

Check the malfunction symptoms by performing the following items.

- Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred).
- Check the symptom.

##### Is the occurred symptom malfunction?

YES >> GO TO 2.

NO >> INSPECTION END

##### 2. DIAGNOSIS WITH CONSULT-III



# DIAGNOSIS AND REPAIR WORKFLOW

[BOSE AUDIO WITHOUT NAVIGATION]

< BASIC INSPECTION >

1. Connect CONSULT-III and perform a self-diagnosis for "MULTI AV". Refer to [AV-150, "CONSULT - III Function \(MULTI AV\)"](#).

**NOTE:**

Skip to step 4 of the diagnosis procedure if "MULTI AV" is not displayed.

2. Check if any DTC is displayed in the self-diagnosis results.

Is DTC displayed?

YES >> GO TO 3.

NO >> GO TO 4.

## 3. TROUBLE DIAGNOSIS FOR DTC

1. Check the DTC indicated in the self-diagnosis results.
2. Perform the relevant diagnosis referring to the DTC Index. Refer to [AV-217, "DTC Index"](#).

>> GO TO 5.

## 4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to [AV-316, "Symptom Table"](#).

>> GO TO 5.

## 5. ERROR PART REPAIR

1. Repair or replace the identified malfunctioning parts.
2. Perform a self-diagnosis for "MULTI AV" with CONSULT-III.

**NOTE:**

Erase the stored self-diagnosis results after repairing or replacing the relevant components if any DTC has been indicated in the self-diagnosis results.

3. Check that the symptom does not occur.

Does the symptom occur?

YES >> GO TO 1.

NO >> INSPECTION END

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# MULTI AV SYSTEM

< SYSTEM DESCRIPTION >

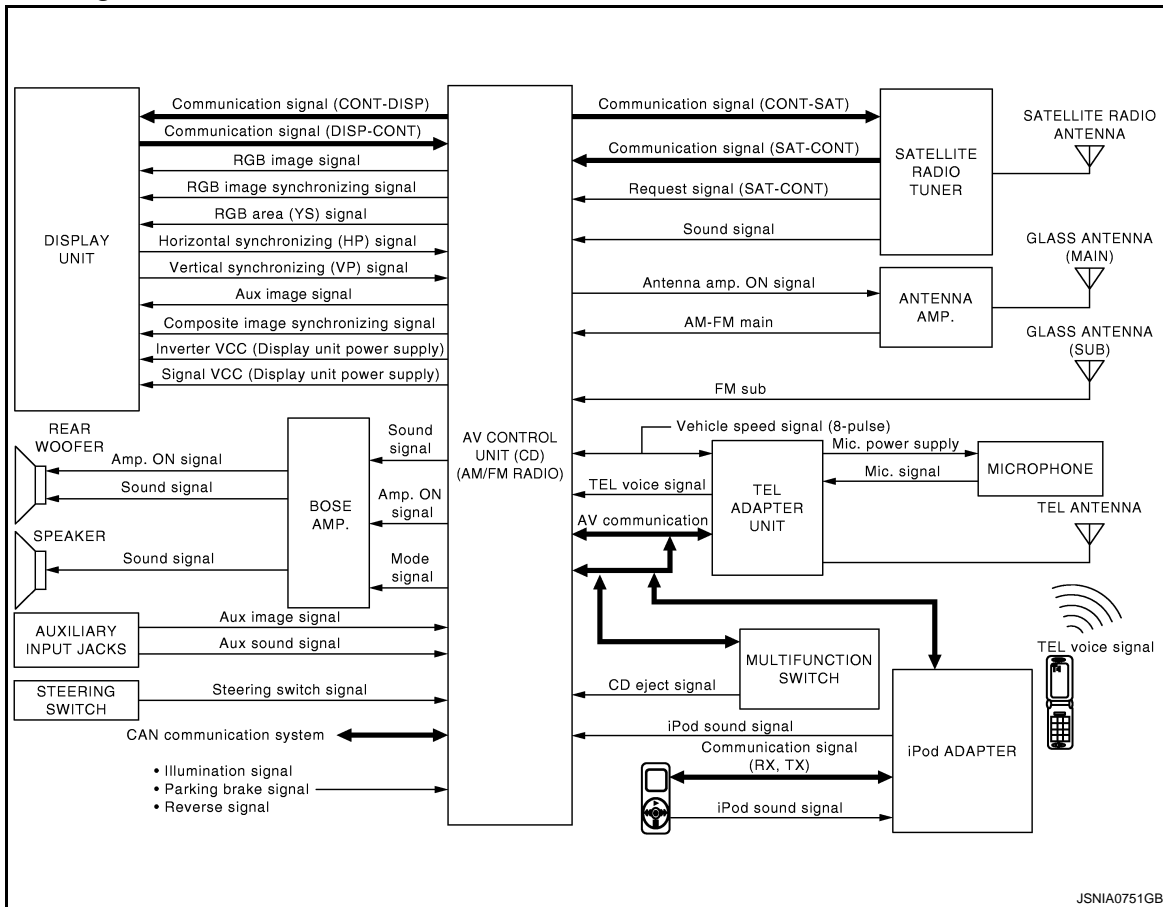
[BOSE AUDIO WITHOUT NAVIGATION]

## SYSTEM DESCRIPTION

### MULTI AV SYSTEM

#### System Diagram

INFOID:000000004238546



JSNIA0751GB

**NOTE:**

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

#### System Description

INFOID:000000004238547

Multi AV system means that the following systems are integrated.

| System name                | System explanation  |
|----------------------------|---|
| AUDIO SYSTEM               | <a href="#">AV-135. "System Description"</a>  |
| VEHICLE INFORMATION SYSTEM | <ul style="list-style-type: none"> <li>Indicates the status of audio, climate control system, fuel economy and maintenance.</li> <li>AV control unit displays the fuel consumption status while receiving data signal through CAN communication from ECM, unified meter and A/C amp and BCM.</li> </ul> |
| HANDS-FREE PHONE SYSTEM    | <a href="#">AV-138. "System Description"</a>  |
| SATELLITE RADIO SYSTEM     | Refer to "SATELLITE RADIO SYSTEM" shown below.  |
| AUXILIARY INPUT SYSTEM     | Refer to "AUXILIARY INPUT SYSTEM" shown below.  |

- AV control unit functions by transmitting/receiving data one by one with each unit (slave unit) that configures them completely as a master unit by connecting between units that configure MULTI AV system with two AV communication lines (H, L).
- Two AV communication lines (H, L) adopt a twisted pair line that is resistant to noise.
- AV control unit is connected by CAN communication, and it receives data signal from ECM, unified meter and A/C amp. It computes and displays fuel economy information value with the obtained information. Trans-

# MULTI AV SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

## < SYSTEM DESCRIPTION >

mitting/receiving of data signal is performed by BCM. Also, it transmits the required signal of vehicle setting and receives the response signal.

- AV control unit is connected with display and serial communication, and it transmits the required signal of display and display control and receives the response signal from front display. Also, it is connected with satellite radio by serial communication, and it transmits the operating signal and receives the display signal.

### NOTE:

AV control unit can perform CONSULT-III self-operating function and on board self-diagnosis.

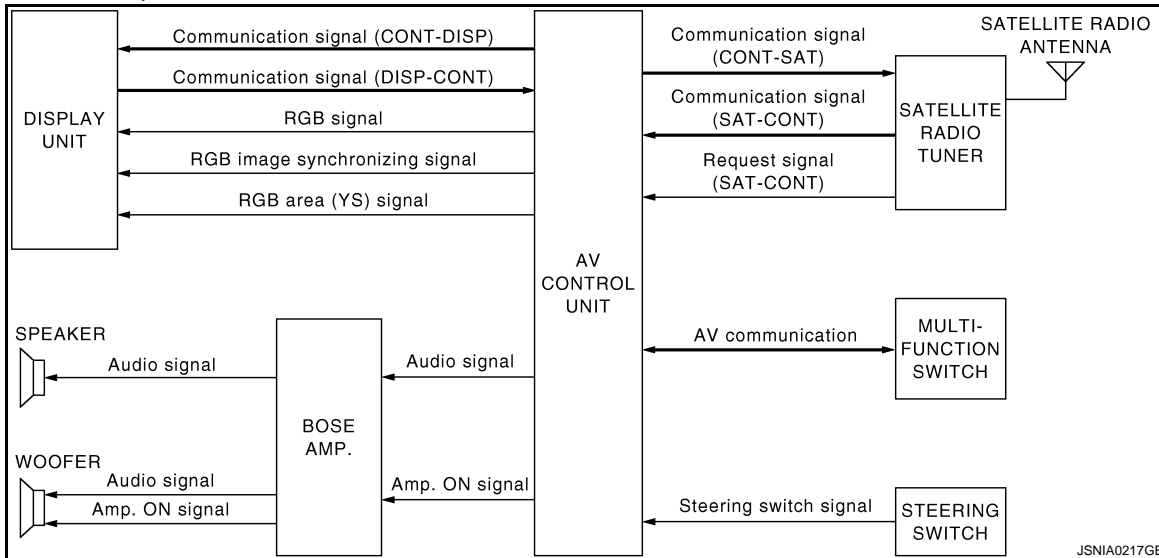
- CONSULT-III self-diagnosis: refer to [AV-150, "CONSULT - III Function \(MULTI AV\)"](#).
- On board self-diagnosis: refer to [AV-141, "Diagnosis Description"](#).

On board self-diagnosis of TEL adapter unit can be performed.

- Refer to [AV-153, "Diagnosis Description"](#) for on board self-diagnosis.

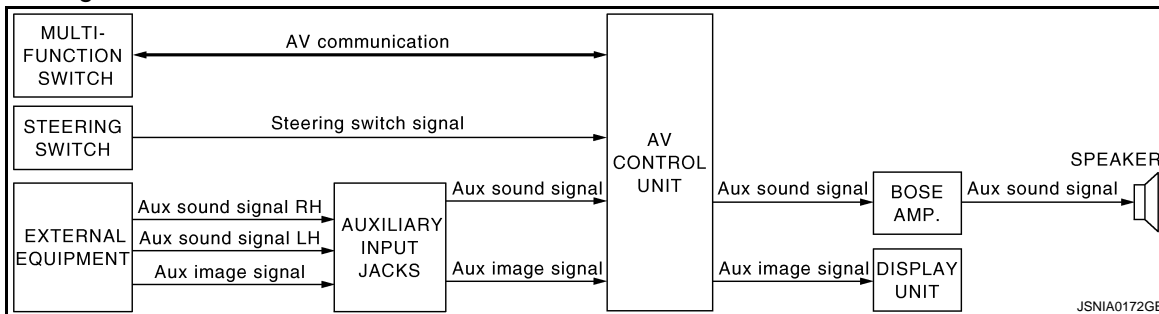
## SATELLITE RADIO SYSTEM

- Satellite radio tuner is controlled by communication signal and request signal with AV control unit.
- Audio signal (satellite radio) is received by satellite antenna and transmitted to AV control unit. Audio signal (satellite radio) is transmitted from AV control unit to BOSE amp. and transmitted from BOSE amp. to woofer amp. and each speaker.



## AUXILIARY INPUT SYSTEM

- Image and sound can be output from an external device by connecting a device with auxiliary input jacks.
- Operation can be performed with multifunction switch and steering switch. Multifunction switch transmits operation signal to AV control unit with communication.



AV

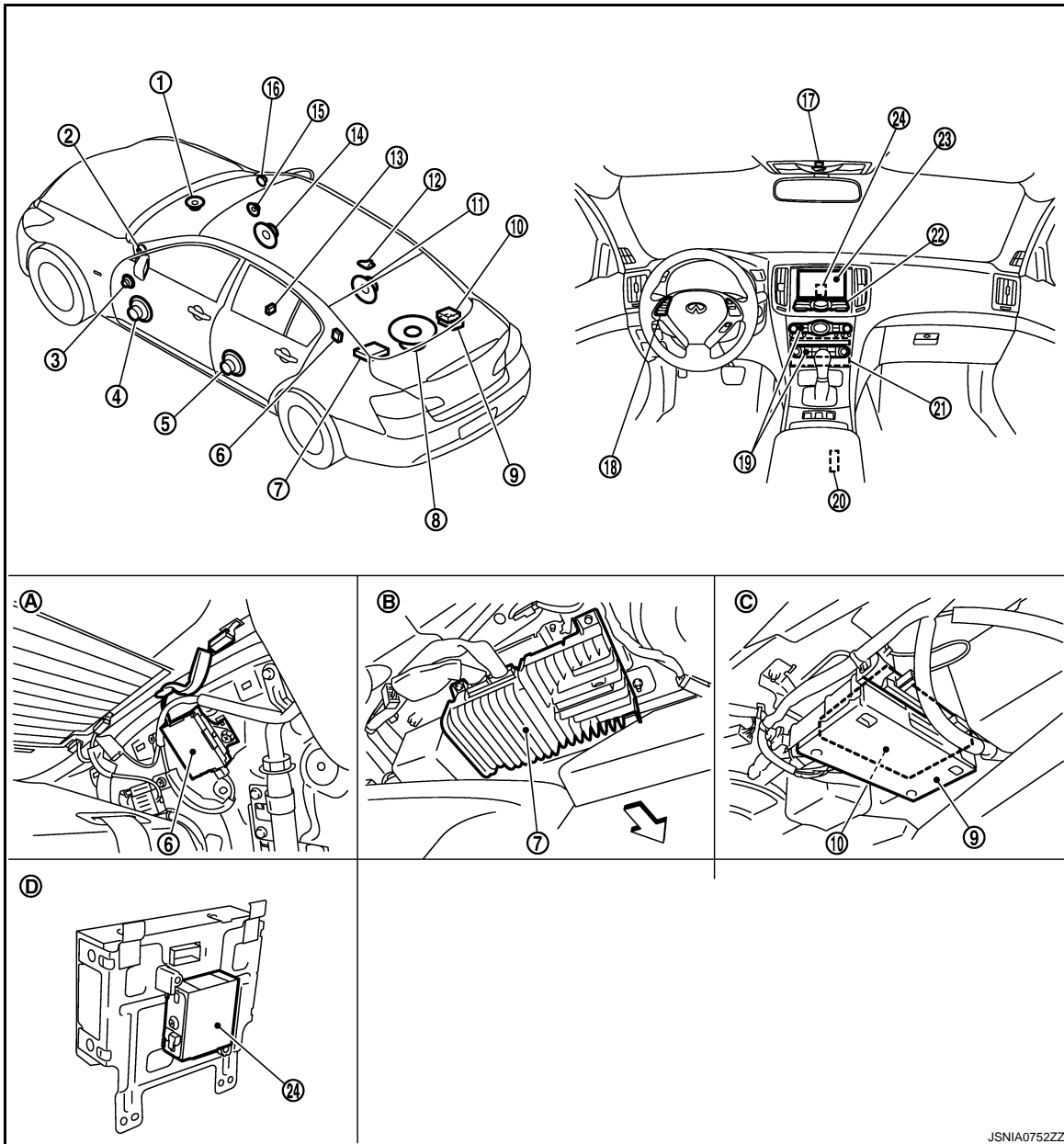
# MULTI AV SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< SYSTEM DESCRIPTION >

## Component Parts Location

INFOID:000000004238548



JSNIA0752ZZ

- |                           |                          |                             |
|---------------------------|--------------------------|-----------------------------|
| 1. Center speaker         | 2. Tweeter LH            | 3. Front door squawker LH   |
| 4. Front door woofer LH   | 5. Rear door speaker LH  | 6. Antenna amp.             |
| 7. BOSE amp.              | 8. Rear woofer           | 9. TEL adapter unit         |
| 10. Satellite radio tuner | 11. Rear door speaker RH | 12. Satellite radio antenna |
| 13. Auxiliary input jacks | 14. Front door woofer RH | 15. Front door squawker RH  |
| 16. Tweeter RH            | 17. Microphone           | 18. Steering switch         |
| 19. Preset switch         | 20. iPod connector       | 21. AV control unit         |
| 22. Multifunction switch  | 23. Display unit         | 24. iPod adapter            |
- A. Within rear pillar finisher LH      B. Rear parcel shelf lower part (left side)      C. Lower part of rear parcel shelf (on the right side)

D. Rear view of the display

↶: Vehicle front

# MULTI AV SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< SYSTEM DESCRIPTION >

## Component Description

INFOID:000000004238549

| Part name             | Description  |
|-----------------------|--|
| AV CONTROL UNIT       | <ul style="list-style-type: none"> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>AV control unit includes audio function and vehicle information function.</li> <li>It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Auxiliary image signal is input from the auxiliary input jacks.</li> <li>BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li> </ul> |
| DISPLAY UNIT          | <ul style="list-style-type: none"> <li>Display image is controlled by the serial communication from AV control unit.</li> <li>RGB image signal is input from AV control unit (RGB, RGB area and RGB synchronizing).</li> <li>Synchronizing signal (HP, VP) is output to AV control unit.</li> <li>Auxiliary image signal is input from AV control unit.</li> </ul>   |
| BOSE AMP.             | Inputs power (amp. ON) and sound signal from AV control unit, and outputs sound signal to each speaker.  |
| FRONT DOOR WOOFER     | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs low-pitched sound.</li> </ul>  |
| FRONT DOOR SQUAWKER   | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs midrange sound.</li> </ul>   |
| REAR DOOR SPEAKER     | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs high, mid and low range sounds.</li> </ul>   |
| TWEETER               | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs high range sound.</li> </ul>   |
| CENTER SPEAKER        | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs high, mid and low range sounds.</li> </ul>   |
| REAR WOOFER           | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs low-pitched sound.</li> <li>Power (amp. ON signal) is supplied from BOSE amp.</li> </ul>   |
| MULTIFUNCTION SWITCH  | <ul style="list-style-type: none"> <li>Operation panel is equipped with the centralized switch where audio and auxiliary input operations are integrated.</li> <li>Connected with AV control unit via cable, and operation signal is transmitted to AV control unit via AV communication.</li> </ul>   |
| PRESET SWITCH         | <ul style="list-style-type: none"> <li>Operation panel is equipped with the centralized switch where audio and air conditioner operations are integrated.</li> <li>Connected with multifunction switch via cable, and operation signal is transmitted to AV control unit via AV communication.</li> <li>The CD ejection operating signal is performed by hardwire.</li> </ul>  |
| STEERING SWITCH       | <ul style="list-style-type: none"> <li>Operations such as audio and hands-free phone are possible.</li> <li>Steering switch signal (operation signal) is output to AV control unit.</li> </ul>   |
| MICROPHONE            | <ul style="list-style-type: none"> <li>Used only when hands-free phone is operated.</li> <li>Outputs Mic. signal (TEL voice signal) to the TEL adapter unit.</li> <li>The power (Mic. power supply) is supplied from the TEL adapter unit.</li> </ul>  |
| AUXILIARY INPUT JACKS | The image signal of the auxiliary input is output via the AV control unit to the display, and it outputs the sound signal to the AV control unit.  |
| ANTENNA AMP.          | <ul style="list-style-type: none"> <li>Radio signal received by glass antenna is amplified and transmitted to AV control unit.</li> <li>Power (antenna amp. ON signal) is supplied from AV control unit.</li> </ul>  |

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# MULTI AV SYSTEM

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITHOUT NAVIGATION]

| Part name               | Description   |
|-------------------------|---|
| TEL ADAPTER UNIT        | <ul style="list-style-type: none"><li>• Inputs the TEL voice signal from TEL antenna and outputs it to the AV control unit.</li><li>• It is connected with the AV control unit via AV communication and controlled with the AV control unit.</li></ul>  |
| TEL ANTENNA             | Receives the TEL voice signal and outputs it to the TEL adapter unit.   |
| SATELLITE RADIO TUNER   | <ul style="list-style-type: none"><li>• Inputs the satellite radio signal from satellite radio antenna and outputs the sound signal to the AV control unit.</li><li>• It is controlled with the AV control unit and serial communication (communication signal and request signal).</li></ul>   |
| SATELLITE RADIO ANTENNA | Receives the satellite radio signal and outputs it to the satellite radio tuner.  |
| iPod ADAPTER            | <ul style="list-style-type: none"><li>• Inputs iPod sound signal from iPod®, and outputs iPod sound signal to AV control unit.</li><li>• Receiving/transmitting of iPod® operation signals are performed as follows:<ul style="list-style-type: none"><li>- between AV control unit and iPod adapter: AV communication.</li><li>- between iPod® and iPod adapter: serial communication.</li></ul></li></ul> |

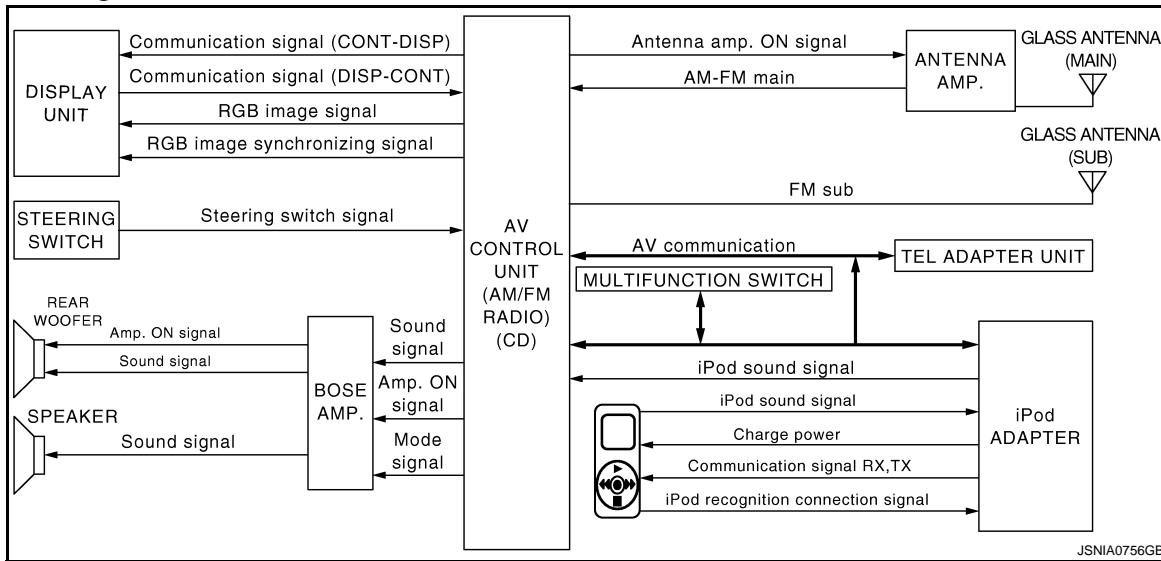
# AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITHOUT NAVIGATION]

## AUDIO SYSTEM

### System Diagram



### System Description

INFOID:000000004238551

The audio system is equipped with the following functions. Each function can be operated with the multifunction switch, preset switch or steering switch. It indicates the operation status of AUDIO to the display.

| Function             |
|----------------------|
| AM/FM radio          |
| CD                   |
| iPod connection      |
| Driver's Audio Stage |

### FUNCTION DESCRIPTION

#### Operating Signal

Operation of the audio system can be performed with the multifunction switch, preset switch or steering switch.

- Operating signal is transmitted to AV control unit with AV communication when it is operated by multifunction switch or preset switch. The CD ejection operating signal is performed by hardware.
- Operating signal is transmitted to AV control unit with steering switch signal when it is operated by steering switch.

#### Screen Display

- The display switching of the screen is performed with the communication signal between the display and the AV control unit.
- The image signal to display operating condition is performed with RGB signal, RGB area signal and RGB image synchronizing signal.

#### AM/FM Radio Mode

- AM/FM radio tuner is built into AV control unit.
- Audio signal is received by glass antenna, next it is amplified by antenna amp, and finally it is input to AV control unit. Audio signal is input to BOSE amp. and BOSE amp. outputs to each speaker for AV control unit.

#### CD Mode

- CD function is built into AV control unit.
- AV control unit outputs audio signal to BOSE amp. and BOSE amp. outputs to each speaker when CD is inserted to AV control unit.

#### iPod Connection

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# AUDIO SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

## < SYSTEM DESCRIPTION >

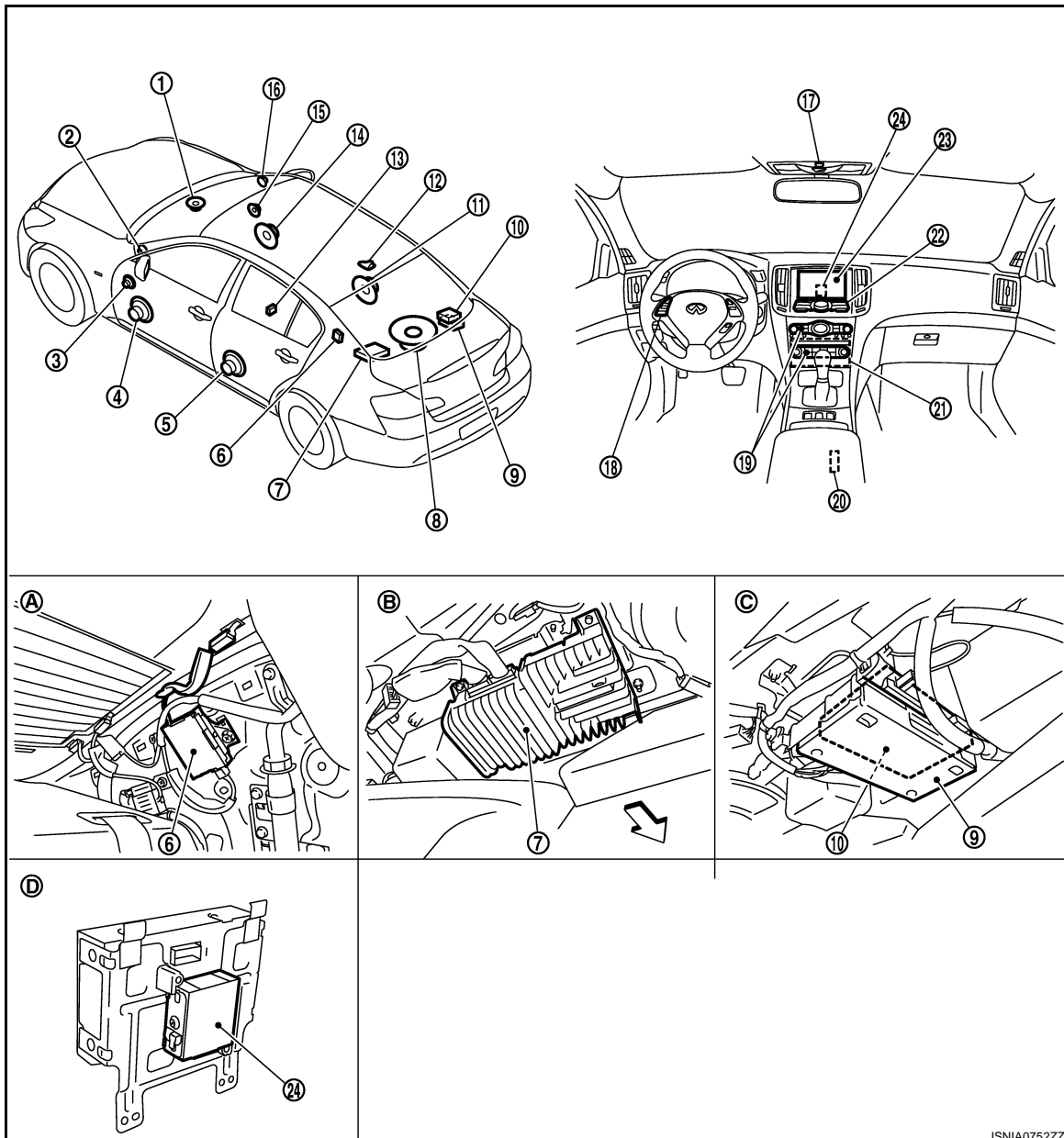
- Connect iPod® and iPod adapter with wire harness and iPod adapter input iPod sound signal from iPod®. When iPod mode is selected, iPod adapter output iPod sound signal to AV control unit. AV control unit output sound signal to BOSE amp., and BOSE amp. output sound signal to each speaker.
- Receiving/transmitting of iPod® operation signals are performed as follows:
  - between AV control unit and iPod adapter: AV communication.
  - between iPod® and iPod adapter: serial communication.
- The iPod® connection status can be recognized whether iPod adapter receives iPod connection recognition signal.
- The iPod adapter is possible to charge iPod®.

### Driver's Audio Stage Mode

- Driver's Audio Stage controls the speaker's output characteristic by BOSE amp. so that the driver's seat is to be the center of sounds.
- ON/OFF signals of Driver's Audio Stage are transmitted from AV control unit to BOSE amp. using Mode signal.

## Component Parts Location

INFOID:000000004467602



JSNIA0752ZZ



# AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITHOUT NAVIGATION]

- |                                   |   |  |   |
|-----------------------------------|---|--|---|
| 1. Center speaker                 | 2. Tweeter LH                               | 3. Front door squawker LH                              | A |
| 4. Front door woofer LH           | 5. Rear door speaker LH                     | 6. Antenna amp.  |   |
| 7. BOSE amp.                      | 8. Rear woofer                              | 9. TEL adapter unit                                    |   |
| 10. Satellite radio tuner         | 11. Rear door speaker RH                    | 12. Satellite radio antenna                            | B |
| 13. Auxiliary input jacks         | 14. Front door woofer RH                    | 15. Front door squawker RH                             |   |
| 16. Tweeter RH                    | 17. Microphone                              | 18. Steering switch                                    |   |
| 19. Preset switch                 | 20. iPod connector                          | 21. AV control unit                                    | C |
| 22. Multifunction switch          | 23. Display unit                            | 24. iPod adapter                                       |   |
| A. Within rear pillar finisher LH | B. Rear parcel shelf lower part (left side) | C. Lower part of rear parcel shelf (on the right side) | D |
| D. Rear view of the display       |   |  |   |

↶ : Vehicle front

## Component Description

INFOID:000000004238553

| Part name            | Description   |    |
|----------------------|---|----|
| AV CONTROL UNIT      | <ul style="list-style-type: none"> <li>The AM/FM receiving function and the CD playing function are equipped.</li> <li>BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li> </ul>   | F  |
| DISPLAY UNIT         | <ul style="list-style-type: none"> <li>Display image is controlled by the serial communication from AV control unit.</li> <li>RGB image signal (audio operation condition) is input from AV control unit.</li> </ul>  | G  |
| BOSE AMP.            | Inputs power (amp. ON) and sound signal from AV control unit, and outputs sound signal to each speaker.   | H  |
| FRONT DOOR WOOFER    | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs low-pitched sound.</li> </ul>   | I  |
| FRONT DOOR SQUAWKER  | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs midrange sound.</li> </ul>  | J  |
| REAR DOOR SPEAKER    | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs high, mid and low range sounds.</li> </ul>  | K  |
| TWEETER              | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs high range sound.</li> </ul>  | L  |
| CENTER SPEAKER       | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs high, mid and low range sounds.</li> </ul>  | M  |
| REAR WOOFER          | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs low-pitched sound.</li> <li>Power (amp. ON signal) is supplied from BOSE amp.</li> </ul>  |    |
| MULTIFUNCTION SWITCH | <ul style="list-style-type: none"> <li>Each audio operation can be operated.</li> <li>Connected with AV control unit via cable, and operation signal is transmitted to AV control unit via AV communication.</li> </ul>   |    |
| PRESET SWITCH        | <ul style="list-style-type: none"> <li>Each audio operation can be operated.</li> <li>It is connected to the multifunction switch by AV communication. The operation signal is transmitted to the AV control unit.</li> <li>The CD ejection operating signal is performed by hardwire.</li> </ul>   | AV |
| STEERING SWITCH      | <ul style="list-style-type: none"> <li>Each audio operation can be operated.</li> <li>Steering switch signal (operation signal) is output to AV control unit.</li> </ul>  | O  |
| ANTENNA AMP.         | <ul style="list-style-type: none"> <li>Radio signal received by glass antenna is amplified and transmitted to AV control unit.</li> <li>Power (antenna amp. ON signal) is supplied from AV control unit.</li> </ul>   | P  |
| iPod ADAPTER         | <ul style="list-style-type: none"> <li>Inputs iPod sound signal from iPod®, and outputs iPod sound signal to AV control unit.</li> <li>Receiving/transmitting of iPod® operation signals are performed as follows:                             <ul style="list-style-type: none"> <li>between AV control unit and iPod adapter: AV communication.</li> <li>between iPod® and iPod adapter: serial communication.</li> </ul> </li> </ul> |    |

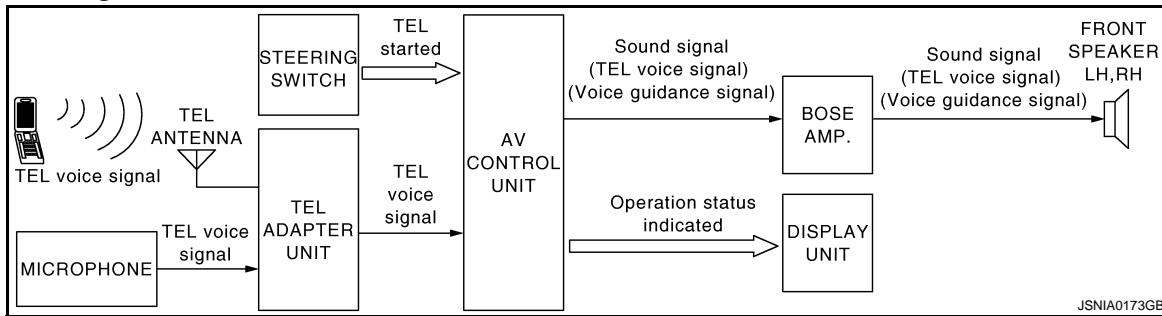
# HANDS-FREE PHONE SYSTEM

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITHOUT NAVIGATION]

## HANDS-FREE PHONE SYSTEM

### System Diagram



### System Description

INFOID:000000004238555

- TEL adapter unit is controlled with AV communication from AV control unit.
- The connection between portable telephone and TEL adapter unit is performed with Bluetooth®.
- The voice guidance signal is input from the TEL adapter unit to the AV control unit and output via BOSE amp. to the front speaker and center speaker when operating the cellular phone.
- TEL adapter unit has the on board self-diagnosis function. Refer to [AV-153, "Diagnosis Description"](#).

#### WHEN RECEIVING A CALL

TEL voice signal received with the portable telephone is input from TEL antenna via TEL adapter unit to AV control unit with Bluetooth communication and output via BOSE amp. to the front speaker. The operation is performed with the steering switch or voice recognition function (TEL operation only).

#### WHEN A CALL IS TRANSMITTED

Speech sound (TEL voice signal) is input from the microphone to the TEL adapter unit. It is input from the TEL antenna via Bluetooth communication to the portable telephone. It is transmitted to the phone on the other side. The operation is performed with the steering switch or voice recognition function (TEL operation only).

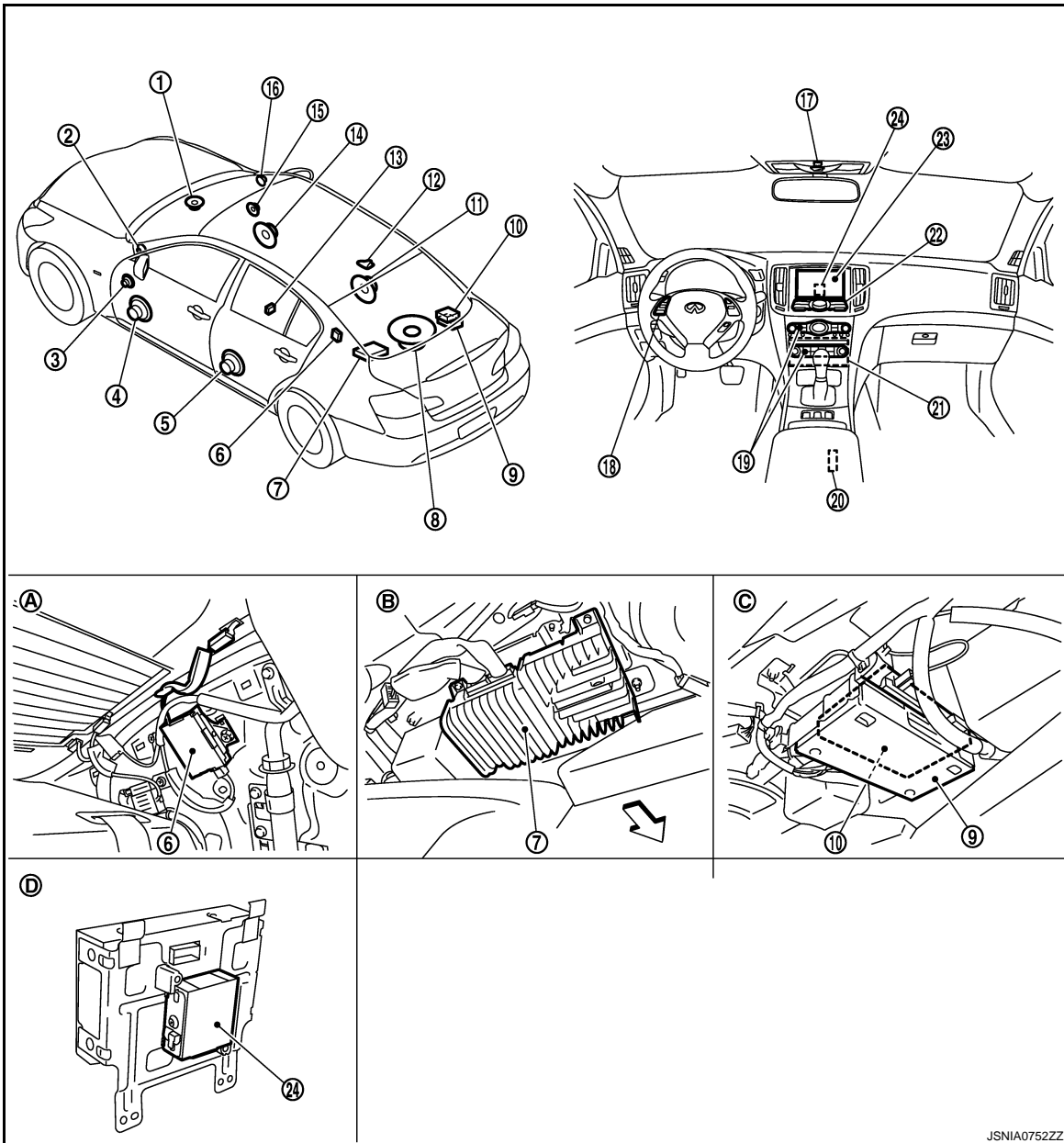
# HANDS-FREE PHONE SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< SYSTEM DESCRIPTION >

## Component Parts Location

INFOID:000000004467603



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|-----------------------------------|---|--|
| 1. Center speaker                 | 2. Tweeter LH                               | 3. Front door squawker LH                              |
| 4. Front door woofer LH           | 5. Rear door speaker LH                     | 6. Antenna amp.  |
| 7. BOSE amp.                      | 8. Rear woofer                              | 9. TEL adapter unit                                    |
| 10. Satellite radio tuner         | 11. Rear door speaker RH                    | 12. Satellite radio antenna                            |
| 13. Auxiliary input jacks         | 14. Front door woofer RH                    | 15. Front door squawker RH                             |
| 16. Tweeter RH                    | 17. Microphone                              | 18. Steering switch                                    |
| 19. Preset switch                 | 20. iPod connector                          | 21. AV control unit                                    |
| 22. Multifunction switch          | 23. Display unit                            | 24. iPod adapter                                       |
| A. Within rear pillar finisher LH | B. Rear parcel shelf lower part (left side) | C. Lower part of rear parcel shelf (on the right side) |

D. Rear view of the display

↶: Vehicle front

# HANDS-FREE PHONE SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< SYSTEM DESCRIPTION >

## Component Description

INFOID:000000004238557

| Part name           | Description   |
|---------------------|---|
| AV CONTROL UNIT     | <ul style="list-style-type: none"><li>Inputs TEL voice signal or voice guidance signal from TEL adapter unit and outputs it to BOSE amp. during reception.</li><li>Connects with TEL adapter unit and AV communication and controls hands free phone system.</li></ul>  |
| DISPLAY UNIT        | <ul style="list-style-type: none"><li>Display image is controlled by the serial communication from AV control unit.</li><li>Inputs RGB image signal (RGB, RGB area and RGB synchronizing) from AV control unit and displays the status of hands free phone system.</li></ul>  |
| BOSE AMP.           | Inputs TEL voice signal or voice guidance signal from AV control unit and outputs it to front speaker and center speaker.   |
| FRONT DOOR WOOFER   | Outputs the TEL voice signal or voice guidance signal from Bose amp.  |
| FRONT DOOR SQUAWKER |   |
| TWEETER             |   |
| PRESET SWITCH       | <ul style="list-style-type: none"><li>Adjust the sound when using TEL.</li><li>The operation signal is transmitted to the AV control unit via AV communication.</li></ul>   |
| STEERING SWITCH     | <ul style="list-style-type: none"><li>The hands free phone system can be operated.</li><li>Steering switch signal (operation signal) is output to AV control unit.</li></ul>  |
| MICROPHONE          | <ul style="list-style-type: none"><li>Uses when operating the hands-free phone.</li><li>Outputs Mic. signal (TEL voice signal) to the TEL adapter unit.</li><li>The power (Mic. power supply) is supplied from the TEL adapter unit.</li></ul>  |
| TEL ADAPTER UNIT    | <ul style="list-style-type: none"><li>Receives the steering switch signal (operation signal) from the steering switch.</li><li>Inputs the TEL voice signal from TEL antenna during reception and outputs it to the AV control unit.</li><li>Inputs the TEL voice signal from microphone during speech recognition and outputs it to the TEL antenna.</li><li>Controlled by AV communication transmitted from AV control unit.</li></ul> |
| TEL ANTENNA         | Connects with the portable telephone via Bluetooth <sup>®</sup> and communicates the TEL voice signal.  |

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITHOUT NAVIGATION]

## DIAGNOSIS SYSTEM (AV CONTROL UNIT)

### Diagnosis Description

INFOID:000000004238558

#### MULTIFUNCTION SWITCH AND PRESET SWITCH SELF-DIAGNOSIS FUNCTION

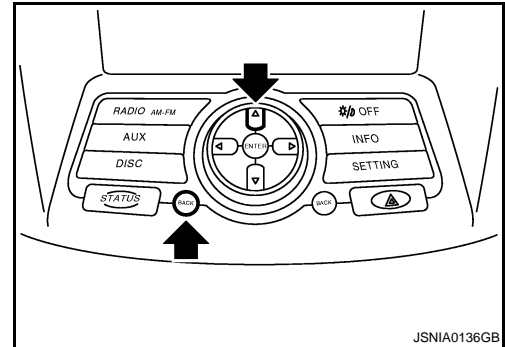
The ON/OFF operation (continuity) of each switch in the multifunction switch and preset switch can be checked.

##### Self-diagnosis Mode

- Press the “BACK” switch and the “UP” switch of the 4-direction switches within 10 seconds after turning the ignition switch from OFF to ACC and hold them for 3 seconds or more. The buzzer sounds, all indicators of the preset switch illuminate, and the self-diagnosis mode starts.
- The continuity of each switch at the ON position can be checked by pressing the switch. The buzzer sounds if the switch is normal.

##### **CAUTION:**

**The hazard switch and CD eject switch cannot be checked.**



##### Finishing Self-diagnosis Mode

Self-diagnosis mode is canceled when turning the ignition switch OFF.

#### MULTI AV SYSTEM ON BOARD DIAGNOSIS FUNCTION

- The AV control unit diagnosis function starts up with multifunction switch operation and the AV control unit performs a diagnosis for each unit in the system during the on board diagnosis.
- Perform a CONSULT-III diagnosis if the on board diagnosis does not start, e.g., the screen does not display anything, the multifunction switch does not function, etc.

#### ON BOARD DIAGNOSIS

##### Description

- The trouble diagnosis function has a self-diagnosis mode for conducting trouble diagnosis automatically and a confirmation/adjustment mode for operating manually.
- Self-diagnosis mode performs the AV control unit diagnosis and the connection diagnosis between each of the units that make up the system, and it indicates the results to the display.
- The confirmation/adjustment mode allows the technician to check, modify or adjust the vehicle signals and set values, as well as to monitor the system error records and system communication status. The checking, modifying or adjusting generally requires human intervention and judgment (the system cannot make judgment automatically).

##### On Board Diagnosis Item

| Mode           | Description   |
|----------------|---|
| Self Diagnosis | <ul style="list-style-type: none"><li>• AV control unit diagnosis</li><li>• Perform the connection diagnosis between each of the units.</li></ul> |

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# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

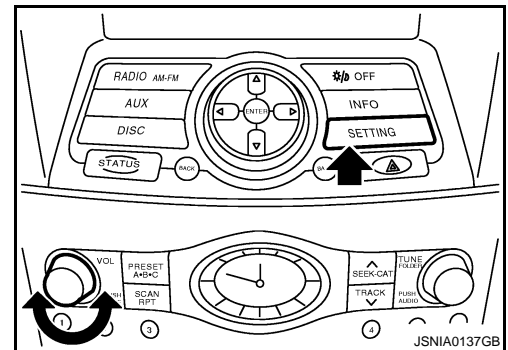
[BOSE AUDIO WITHOUT NAVIGATION]

< SYSTEM DESCRIPTION >

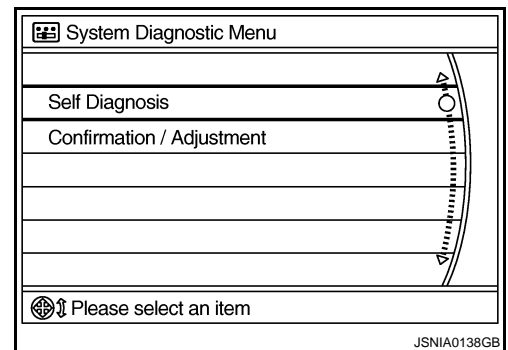
| Mode                       | Description  |
|----------------------------|--|
| Display Diagnosis          | The confirmations of the tint with the color spectrum bar display and shading of color with the gradation bar display can be performed.  |
| Vehicle Signals            | Diagnosis of signals can be performed for vehicle speed, parking brake, lights, ignition switch, and reverse.  |
| Speaker Test               | The connection of a speaker can be confirmed by test tone.   |
| Climate Control            | Start auto air conditioner system self-diagnosis.  |
| Confirmation/ Adjustment   | The system malfunction and the frequency when occurring in the past are displayed. When the malfunctioning item is selected, the time and place that the selected malfunction last occurred are displayed. |
| Error History              |  |
| Vehicle CAN Diagnosis      | The transmitting/receiving of CAN communication can be monitored.  |
| AV COMM Diagnosis          | The communication condition of each unit of Multi AV system can be monitored.  |
| Delete Unit Connection Log | Erase the connection history of unit and error history   |
| Initialize Settings        | Initializes the AV control unit memory.  |

## STARTING PROCEDURE

1. Start the engine.
2. Turn the audio system OFF.
3. While pressing the “SETTING” button, turn the volume control dial clockwise or counterclockwise for 40 clicks or more. (When the self-diagnosis mode is started, a short beep will be heard.)
  - Shifting from current screen to previous screen is performed by pressing “BACK” button.

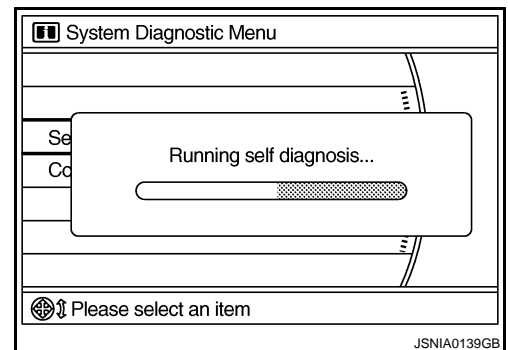


4. The trouble diagnosis initial screen is displayed, and then the items of “Self Diagnosis” and “Confirmation/Adjustment” can be selected.



## SELF-DIAGNOSIS MODE

1. Start the self-diagnosis function and select “Self-diagnosis”.
  - Self-diagnosis subdivision screen is displayed, and the self-diagnosis mode starts.
  - The bar graph visible on the center of the self-diagnosis subdivision screen indicates progress of the trouble diagnosis.



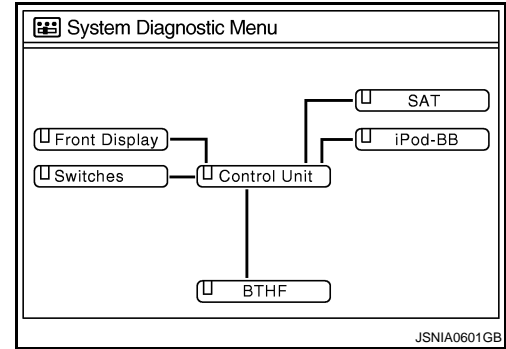
# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BOSE AUDIO WITHOUT NAVIGATION]

## < SYSTEM DESCRIPTION >

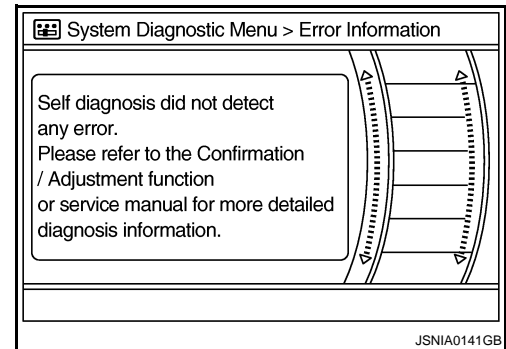
2. Diagnosis results are displayed after the self-diagnosis is completed. The unit names and the connection lines are color-coded according to the diagnostic results.

| Diagnosis results                | Unit  | Connection line |
|----------------------------------|-------|-----------------|
| Normal                           | Green | Green           |
| Connection malfunction           | Gray  | Yellow          |
| Unit malfunction <sup>Note</sup> | Red   | Green           |



### NOTE:

- Only the control unit (AV control unit) is displayed in red.
- Replace AV control unit if "Self-Diagnosis did not run because of a control unit malfunction" is indicated. The symptom is AV control unit internal error. Refer to [AV-325, "Exploded View"](#).
- If multiple errors occur at the same time for a single unit, the screen switch colors are determined according to the following order of priority: red > gray.
- The comments of the self-diagnosis results can be viewed with a component in the diagnosis result screen.



### Detection Range of Self-diagnosis Mode

- The self-diagnosis mode allows the technician to diagnose the connection in the communication line between AV control unit and each unit and the internal operation of the AV control unit.
- Because the start condition of diagnosis function is a switch operation, the on board diagnosis function cannot be started up if any malfunction is detected in the communication circuit between AV control unit and multifunction switch.

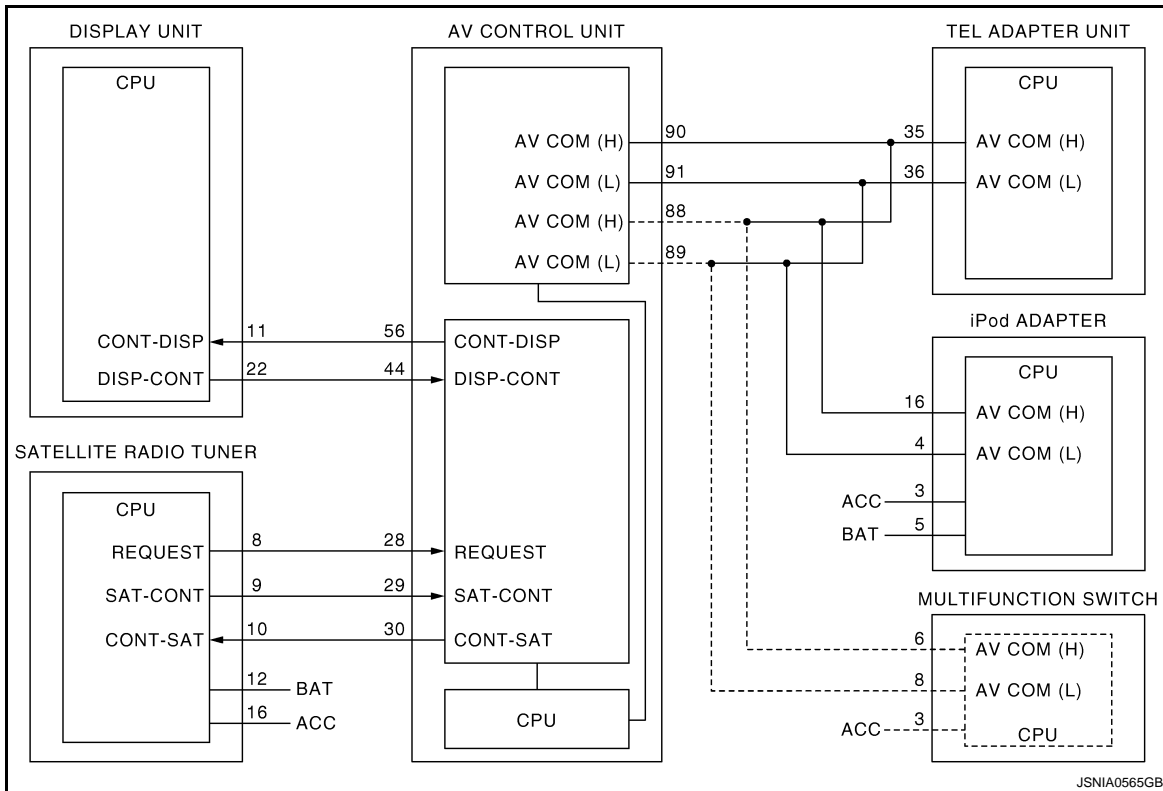
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AV

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITHOUT NAVIGATION]



**NOTE:**

On board self-diagnosis cannot be started when an error occurs on the dotted-line part above.

**SELF-DIAGNOSIS RESULTS**

Check the applicable display at the following table, and then repair the malfunctioning parts.

Self-diagnosis Result Chart

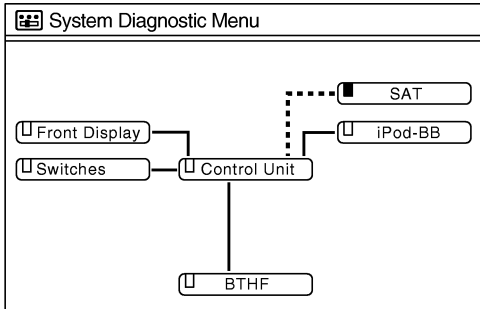
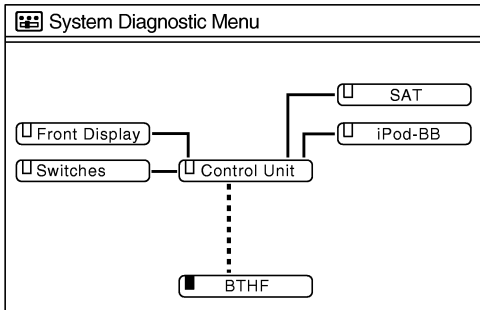
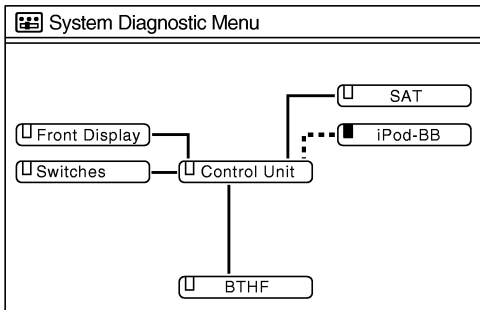
| Area with yellow connection lines   | Description   | Possible malfunction location / Action to take                         |
|---|---|--|
| <p>■ : Red JSNIA0602GB</p>  | <p>AV control unit malfunction is detected.</p>   | <p>Replace the AV control unit.</p>                                    |
| <p>“Self-Diagnosis did not run because of a control unit malfunction”</p> |   |  |
| <p>■ : Gray .....: Yellow JPNIA0463GB</p>                                 | <ul style="list-style-type: none"> <li>• Malfunction is detected in communication circuit between AV control unit and display unit.</li> <li>• Malfunction is detected in communication signal between AV control unit and display unit.</li> </ul> | <p>Communication circuit between AV control unit and display unit.</p> |



# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

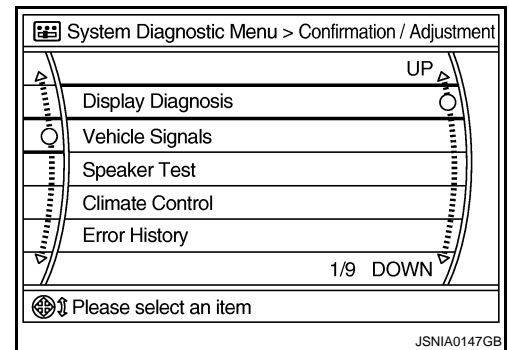
< SYSTEM DESCRIPTION >

[BOSE AUDIO WITHOUT NAVIGATION]

| Area with yellow connection lines   | Description  | Possible malfunction location / Action to take  |
|---|--|---|
|  <p>■ : Gray    - - - - : Yellow</p> <p>JSNIA0603GB</p>  | <ul style="list-style-type: none"> <li>• Satellite radio tuner power supply and ground circuit malfunction is detected.</li> <li>• Malfunction is detected in communication circuits between AV control unit and satellite radio tuner.</li> <li>• Malfunction is detected in communication signal between AV control unit and satellite radio tuner.</li> <li>• Malfunction is detected in request signal circuit between AV control unit and satellite radio tuner.</li> </ul> | <ul style="list-style-type: none"> <li>• Satellite radio tuner power supply and ground circuit.</li> <li>• Communication circuit between AV control unit and satellite radio tuner.</li> <li>• Request signal circuit between AV control unit and satellite radio tuner.</li> </ul> |
|  <p>■ : Gray    - - - - : Yellow</p> <p>JSNIA0604GB</p>  | <ul style="list-style-type: none"> <li>• TEL adapter unit power supply and ground circuit malfunction is detected.</li> <li>• Malfunction is detected in AV communication circuit between AV control unit and TEL adapter unit.</li> <li>• Malfunction is detected in AV communication signal between AV control unit and TEL adapter unit.</li> </ul>   | <ul style="list-style-type: none"> <li>• TEL adapter unit power supply and ground circuit.</li> <li>• AV communication circuit between AV control unit and TEL adapter unit.</li> </ul>   |
|  <p>■ : Gray    - - - - : Yellow</p> <p>JSNIA0605GB</p> | <ul style="list-style-type: none"> <li>• iPod adapter power supply and ground circuit malfunction is detected.</li> <li>• Malfunction is detected in AV communication circuit between AV control unit and iPod adapter.</li> <li>• Malfunction is detected in AV communication signal between AV control unit and iPod adapter.</li> </ul>   | <ul style="list-style-type: none"> <li>• iPod adapter power supply and ground circuit.</li> <li>• AV communication circuit between AV control unit and iPod adapter.</li> </ul>   |

## CONFIRMATION/ADJUSTMENT MODE

1. Start the diagnosis function and select "Confirmation/Adjustment". The confirmation/adjustment mode indicates where each item can be checked or adjusted.
2. Select each switch on the "Confirmation/Adjustment Mode" screen to display the relevant trouble diagnosis screen. Press the "RETURN" switch to return to the initial Confirmation/Adjustment Mode screen.

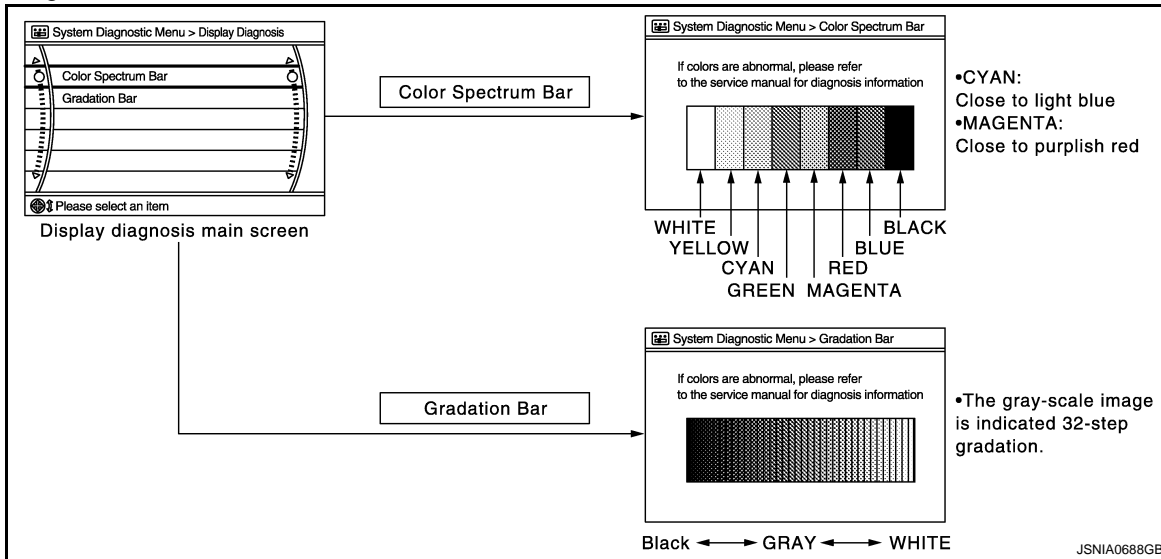


# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITHOUT NAVIGATION]

## Display Diagnosis

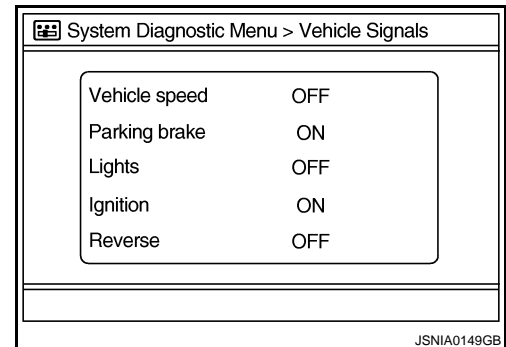


The tint of the color bar indication is as per the following list if RGB signal error is detected.

- R (red) signal error** : Light blue (Cyan) tint
- G (green) signal error** : Purple (Magenta) tint
- B (blue) signal error** : Yellow tint

## Vehicle Signals

A comparison check can be made of each actual vehicle signal and the signals recognized by the system.



| Diagnosis item | Display | Vehicle status                                   | Remarks   |
|----------------|---------|--|---|
| Vehicle speed  | ON      | Vehicle speed > 0 km/h (0 MPH)                   | Changes in indication may be delayed. This is normal. |
|                |         | Vehicle speed = 0 km/h (0 MPH)                   |   |
| Parking brake  | ON      | Parking brake is applied.                        |   |
|                | OFF     | Parking brake is released.                       |   |
| Lights         | ON      | Light switch ON                                  | —   |
|                | OFF     | Light switch OFF                                 |   |
| Ignition       | ON      | Ignition switch ON                               | —   |
|                | OFF     | Ignition switch in ACC position                  |   |
| Reverse        | ON      | Shift the selector lever to "R" position         | Changes in indication may be delayed. This is normal. |
|                | OFF     | Shift the selector lever other than "R" position |   |

## Speaker Test

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BOSE AUDIO WITHOUT NAVIGATION]

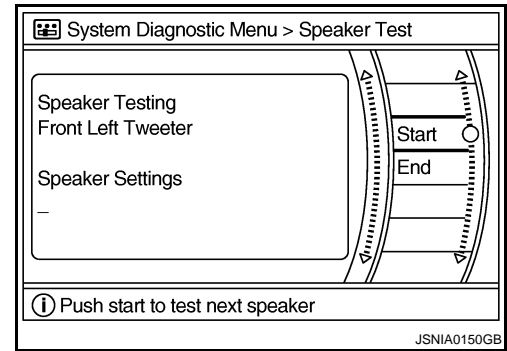
## < SYSTEM DESCRIPTION >

Select "SPEAKER DIAGNOSIS" to display the Speaker Diagnosis screen. Press "START and NEXT" to generate a test tone in a speaker. Press "Start" to generate a test tone in the next speaker. Press "End" to stop the test tones.

### NOTE:

The frequency of test tone emitted from each speaker is as follows.

- Tweeter** : 3 kHz
- Front door speaker** : 300 Hz
- Rear door speaker** : 1 kHz



### Climate Control

Refer to "HEATER & AIR CONDITIONING CONTROL SYSTEM" for details.

### Error History

The self-diagnosis results are judged depending on whether any error occurs from when "Self-diagnosis" is selected until the self-diagnosis results are displayed.

However, the diagnosis results are judged normal if an error has occurred before the ignition SW is turned ON and then no error has occurred until the self-diagnosis start. Check the "Error Record" to detect any error that may have occurred before the self-diagnosis start because of this situation.

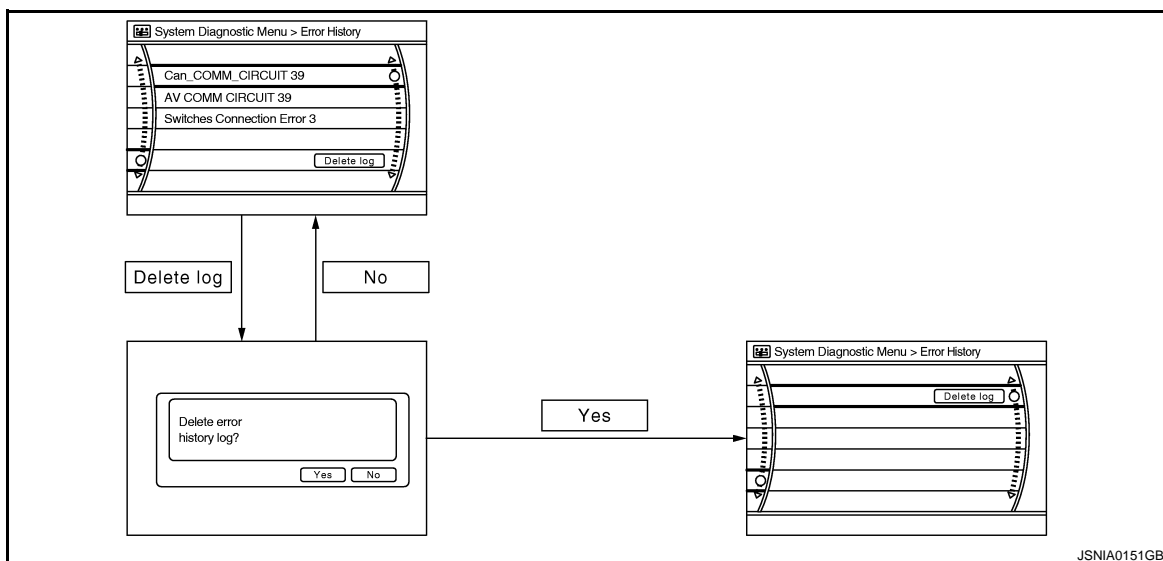
#### Count up method A

- The counter resets to 0 if an error occurs when IGN switch is turned ON. The counter increases by 1 if the condition is normal at a next IGN ON cycle.
- The counter upper limit is 39. Any counts exceeding 39 are ignored. The counter can be reset (no error record display) with the "Delete log" switch or CONSULT-III.

#### Count up method B

- The counter increases by 1 if an error occurs when IGN switch is ON. The counter will not decrease even if the condition is normal at the next IGN ON cycle.
- The counter upper limit is 50. Any counts exceeding 50 are ignored. The counter can be reset (no error record display) with the "Delete log" switch or CONSULT-III.

| Display type of occurrence frequency | Error history display item   |
|--------------------------------------|--|
| Count up method A                    | CAN communication line, control unit (CAN), AV communication line, control unit (AV communication) |
| Count up method B                    | Other than the above   |



### Error item

Some error items may be displayed simultaneously according to the cause. If some error items are displayed simultaneously, the detection of the cause can be performed by the combination of display items

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITHOUT NAVIGATION]

| Error item  | Description   | Possible malfunction factor/Action to take  |
|---|---|---|
| CAN COMM CIRCUIT  | CAN communication malfunction is detected.  | Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results.<br>Refer to <a href="#">AV-155, "Diagnosis Procedure"</a> .  |
| CONTROL UNIT (CAN)  | CAN initial diagnosis malfunction is detected.  | Replace the AV control unit.  |
| CONTROL UNIT (AV)   | AV communication circuit initial diagnosis malfunction is detected.   |   |
| FLASH-ROM Error Of Control Unit<br>CAN Controller Memory Error  | AV control unit malfunction is detected.  |   |
| Front Display Connection Error  | <ul style="list-style-type: none"> <li>• Display unit power supply and ground circuit malfunction is detected.</li> <li>• Malfunction is detected in communication circuit between AV control unit and display unit.</li> <li>• Malfunction is detected in communication signal between AV control unit and display unit.</li> </ul>  | <ul style="list-style-type: none"> <li>• Display unit power supply and ground circuit.</li> <li>• Communication circuit between AV control unit and display unit.</li> </ul>  |
| SAT Connection Error  | <ul style="list-style-type: none"> <li>• Satellite radio tuner power supply and ground circuit malfunction is detected.</li> <li>• Malfunction is detected in communication circuit between AV control unit and satellite radio tuner.</li> <li>• Malfunction is detected in communication signal between AV control unit and satellite radio tuner.</li> <li>• Malfunction is detected in request signal circuit between AV control unit and satellite radio tuner.</li> </ul> | <ul style="list-style-type: none"> <li>• Satellite radio tuner power supply and ground circuit.</li> <li>• Communication circuit between AV control unit and satellite radio tuner.</li> <li>• Request signal circuit between AV control unit and satellite radio tuner.</li> </ul> |
| <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT</li> <li>• Switches Connection Error</li> </ul>  | <ul style="list-style-type: none"> <li>• Multifunction switch power supply and ground circuit malfunction is detected.</li> <li>• Malfunction is detected in AV communication circuit between AV control unit and multifunction switch.</li> <li>• Malfunction is detected in AV communication signal between AV control unit and multifunction switch.</li> </ul>  | <ul style="list-style-type: none"> <li>• Multifunction switch power supply and ground circuit.</li> <li>• AV communication circuit between AV control unit and multifunction switch.</li> </ul>   |
| <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT</li> <li>• iPod Connection Error</li> </ul>  | <ul style="list-style-type: none"> <li>• iPod adapter unit power supply and ground circuit malfunction is detected.</li> <li>• Malfunction is detected in AV communication circuit between AV control unit and iPod adapter.</li> <li>• Malfunction is detected in AV communication signal between AV control unit and iPod adapter.</li> </ul>   | <ul style="list-style-type: none"> <li>• iPod adapter power supply and ground circuit.</li> <li>• AV communication circuit between AV control unit and iPod adapter unit.</li> </ul>  |
| <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT</li> <li>• H/F Unit Connection Error</li> </ul>  | <ul style="list-style-type: none"> <li>• TEL adapter unit power supply and ground circuit malfunction is detected.</li> <li>• Malfunction is detected in AV communication circuit between AV control unit and TEL adapter unit.</li> <li>• Malfunction is detected in AV communication signal between AV control unit and TEL adapter unit.</li> </ul>  | <ul style="list-style-type: none"> <li>• TEL adapter unit power supply and ground circuit.</li> <li>• AV communication circuit between AV control unit and TEL adapter unit.</li> </ul>   |
| <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT</li> <li>• Switches Connection Error</li> <li>• iPod Unit Connection Error</li> <li>• H/F Unit Connection Error</li> </ul> | Malfunction is detected in AV communication circuit between AV control unit and the branch point multifunction switch and AV control unit.  | AV communication circuit between AV control unit and the branch point multifunction switch and AV control unit.   |

Vehicle CAN Diagnosis

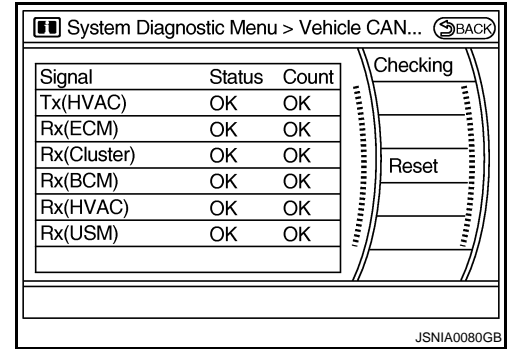
# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

## [BOSE AUDIO WITHOUT NAVIGATION]

### < SYSTEM DESCRIPTION >

- CAN communication status and error counter is displayed.
- The error counter displays “OK” if any malfunction was not detected in the past and displays “0” if a malfunction is detected. It increases by 1 if the condition is normal at the next ignition switch ON cycle. The upper limit of the counter is 39.
- The error counter is erased if reset.

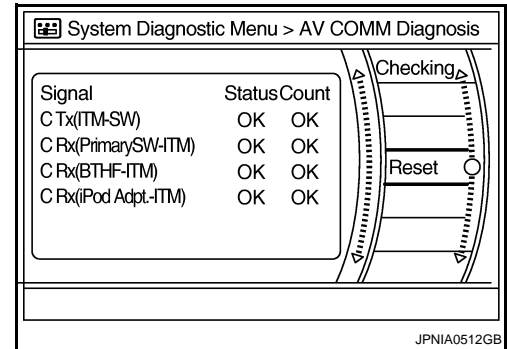
| Items        | Display (Current) | Malfunction counter (Past) |
|--------------|-------------------|----------------------------|
| Tx (HVAC)    | OK / UNKWN        | OK / 0 - 39                |
| Rx (ECM)     | OK / UNKWN        | OK / 0 - 39                |
| Rx (Cluster) | OK / UNKWN        | OK / 0 - 39                |
| Rx (BCM)     | OK / UNKWN        | OK / 0 - 39                |
| Rx (HVAC)    | OK / UNKWN        | OK / 0 - 39                |
| Rx (USM)     | OK / UNKWN        | OK / 0 - 39                |



### AV COMM Diagnosis

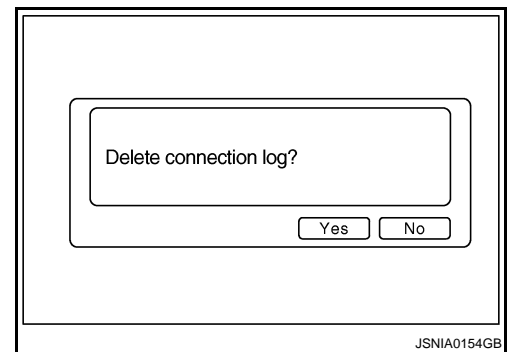
- Displays the communication status between AV control unit (master unit) and each unit.
- The error counter displays “OK” if any malfunction was not detected in the past and displays “0” if a malfunction is detected. It increases by 1 if the condition is normal at the next ignition switch ON cycle. The upper limit of the counter is 39.
- If it resets, the error counter is erased.

| Items                | Status (Current) | Counter (Past) |
|----------------------|------------------|----------------|
| C Tx(ITM-SW)         | OK / UNKWN       | OK / 0 - 39    |
| C Rx(PrimarySW-ITM)  | OK / UNKWN       | OK / 0 - 39    |
| C Rx(BTHF-ITM)       | OK / UNKWN       | OK / 0 - 39    |
| C Rx(iPod Adpt.-ITM) | OK / UNKWN       | OK / 0 - 39    |



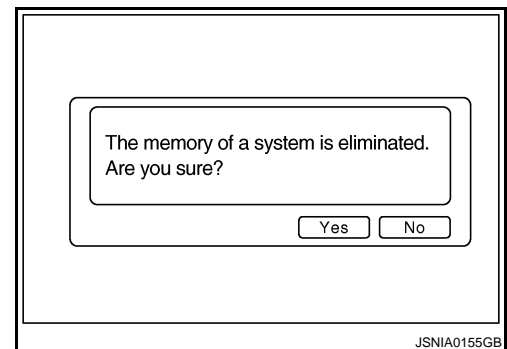
### Delete Unit Connection Log

Deletes any unit connection records and error records from the AV control unit memory. (Clear the records of the unit that has been removed)



### Initialize Settings

Initializes the AV control unit memory.



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# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITHOUT NAVIGATION]

## CONSULT - III Function (MULTI AV)

INFOID:000000004238559

### CONSULT-III FUNCTIONS

CONSULT-III performs the following functions via the communication with the AV control unit.

| Diagnosis mode         | Description   |
|------------------------|---|
| Ecu Identification     | The part number of AV control unit can be checked.  |
| Self Diagnostic Result | Performs a diagnosis on the AV control unit and a connection diagnosis for the communication circuit of the Multi AV system, and displays the current and past malfunctions collectively. |
| Data Monitor           | The diagnosis of vehicle signal that is input to the AV control unit can be performed.  |

### AV COMMUNICATION

When "AV communication" of "CAN Diag Support Monitor" is selected, the following function will be performed.

|                  |             |   |
|------------------|-------------|---|
| AV communication | AV&NAVI C/U | Displays the communication status from AV control unit to each unit as well as the error counter. |
|                  | AUDIO       | Displays the AV control unit communication status and the error counter.                          |

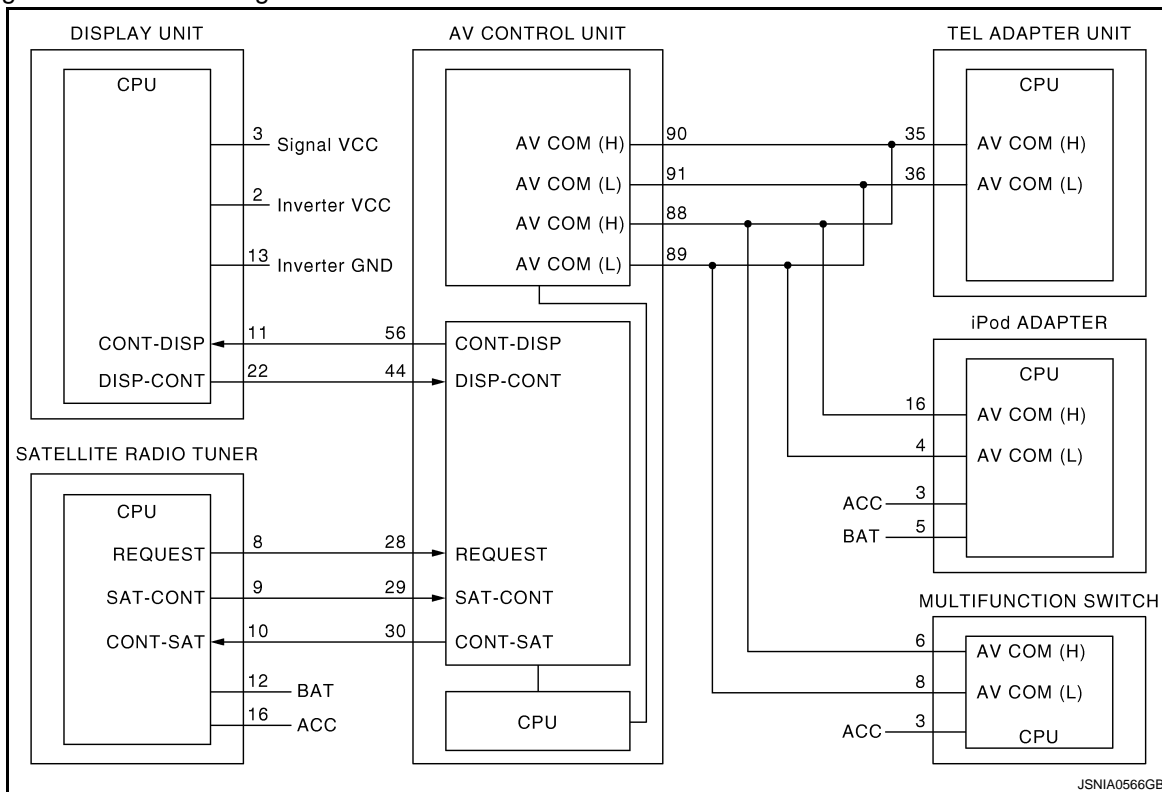
### ECU IDENTIFICATION

The part number of AV control unit is displayed.

### SELF DIAGNOSIS RESULT

- In CONSULT-III self-diagnosis, self-diagnosis results and error history are displayed collectively.
- The current malfunction indicates "CRNT". The past malfunction indicates "PAST".
- The timing is displayed as "0" if any of the error codes [U1000], [U1010], [U1300] and [U1310] is detected. The counter increases by 1 if the condition is normal at the next ignition switch ON cycle.

### Self-diagnosis Detection Range



### Self-diagnosis Results Display Item

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITHOUT NAVIGATION]

| Error item  | Description   | Possible malfunction factor/Action to take  | A |
|---|---|---|---|
| CAN COMM CIRCUIT [U1000]  | CAN communication malfunction is detected.  | Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results.<br>Refer to <a href="#">AV-155, "Diagnosis Procedure"</a> .  | B |
| CONTROL UNIT (CAN) [U1010]  | CAN initial diagnosis malfunction is detected.  | Replace the AV control unit   | C |
| CONTROL UNIT (AV) [U1310]   | AV communication circuit initial diagnosis malfunction is detected.   |   | D |
| Cont Unit FLASH-ROM [U1200]<br>CAN CONT [U1216]   | AV control unit malfunction is detected.  |   | E |
| FRONT DISP CONN [U1243]   | <ul style="list-style-type: none"> <li>• Display unit power supply and ground circuit malfunction is detected.</li> <li>• Malfunction is detected in communication circuit between AV control unit and display unit.</li> <li>• Malfunction is detected in communication signal between AV control unit and display unit.</li> </ul>  | <ul style="list-style-type: none"> <li>• Display unit power supply and ground circuit.</li> <li>• Communication circuit between AV control unit and display unit.</li> </ul>  | F |
| SAT CONN [U1255]  | <ul style="list-style-type: none"> <li>• Satellite radio tuner power supply and ground circuit malfunction is detected.</li> <li>• Malfunction is detected in communication signal between AV control unit and satellite radio tuner.</li> <li>• Malfunction is detected in communication circuit between AV control unit and satellite radio tuner.</li> <li>• Malfunction is detected in request signal circuit between AV control unit and satellite radio tuner.</li> </ul> | <ul style="list-style-type: none"> <li>• Satellite radio tuner power supply and ground circuit.</li> <li>• Communication circuit between AV control unit and satellite radio tuner.</li> <li>• Request signal circuit between AV control unit and satellite radio tuner.</li> </ul> | G |
| <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• SWITCH CONN [U1240]</li> </ul>  | <ul style="list-style-type: none"> <li>• Multifunction switch power supply and ground circuit malfunction is detected.</li> <li>• Malfunction is detected in AV communication circuit between AV control unit and multifunction switch.</li> <li>• Malfunction is detected in AV communication signal between AV control unit and multifunction switch.</li> </ul>  | <ul style="list-style-type: none"> <li>• Multifunction switch power supply and ground circuit.</li> <li>• AV communication circuit between AV control unit and multifunction switch.</li> </ul>   | H |
| <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• IPOD CONN [U1254]</li> </ul>  | <ul style="list-style-type: none"> <li>• iPod adapter power supply and ground circuit malfunction is detected.</li> <li>• Malfunction is detected in AV communication circuit between AV control unit and iPod adapter.</li> <li>• Malfunction is detected in AV communication signal between AV control unit and iPod adapter.</li> </ul>  | <ul style="list-style-type: none"> <li>• iPod adapter power supply and ground circuit.</li> <li>• AV communication circuit between AV control unit and iPod adapter.</li> </ul>   | I |
| <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• HAND FREE CONN [U1256]</li> </ul>   | <ul style="list-style-type: none"> <li>• TEL adapter unit power supply and ground circuit malfunction is detected.</li> <li>• Malfunction is detected in AV communication circuit between AV control unit and TEL adapter unit.</li> <li>• Malfunction is detected in AV communication signal between AV control unit and TEL adapter unit.</li> </ul>  | <ul style="list-style-type: none"> <li>• TEL adapter unit power supply and ground circuit.</li> <li>• AV communication circuit between TEL adapter unit and AV control unit.</li> </ul>   | J |
| <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• SWITCH CONN [U1240]</li> <li>• IPOD CONN [U1254]</li> <li>• HAND FREE CONN [U1256]</li> </ul> | Malfunction is detected in AV communication circuit between AV control unit and the branch point multifunction switch and AV control unit.  | AV communication circuit between AV control unit and the branch point multifunction switch and AV control unit.   | K |

AV

DATA MONITOR

## DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITHOUT NAVIGATION]

### ALL SIGNALS

- Displays the status of the following vehicle signals inputted into the AV control unit.
- For each signal, actual signal can be compared with the condition recognized on the system.

| Display Item | Display | Vehicle status                                   | Remarks   |
|--------------|---------|--|---|
| VHCL SPD SIG | On      | Vehicle speed >0 km/h (0 MPH)                    | Changes in indication may be delayed. This is normal. |
|              | Off     | Vehicle speed =0 km/h (0 MPH)                    |   |
| PKB SIG      | On      | Parking brake is applied.                        |   |
|              | Off     | Parking brake is released.                       |   |
| ILLUM SIG    | On      | Light switch ON                                  |   |
|              | Off     | Light switch OFF                                 |   |
| IGN SIG      | On      | Ignition switch ON                               |   |
|              | Off     | Ignition switch in ACC position                  |   |
| REV SIG      | On      | Shift the selector lever to "R" position         | Changes in indication may be delayed. This is normal. |
|              | Off     | Shift the selector lever other than "R" position |   |

### SELECTION FROM MENU

Allows the technician to select which vehicle signals should be displayed and displays the status of the selected vehicle signals.

| Item to be selected | Description                                 |
|---------------------|---|
| VHCL SPD SIG        | The same as when "ALL SIGNALS" is selected. |
| PKB SIG             |   |
| ILLUM SIG           |   |
| IGN SIG             |   |
| REV SIG             |   |



# DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITHOUT NAVIGATION]

## DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

### Diagnosis Description

INFOID:000000004238560

#### HANDS-FREE PHONE SYSTEM ON BOARD DIAGNOSIS

During on board diagnosis the diagnosis function of TEL adapter unit starts with the operation of the steering switch and performs the diagnosis when ignition switch ACC.

#### ON BOARD DIAGNOSIS ITEM

The on board diagnosis has 3 modes: the self-diagnosis mode that performs the trouble diagnosis, the speaker adaptation data deleting mode and the hands-free phone system initialization mode.

#### CAUTION:

- Perform the diagnosis with the vehicle stopped.
- Perform STEP2 if necessary.

| STEP  | MODE                                   | Description   |
|-------|--|---|
| STEP1 | Self-diagnosis                         | The self-diagnosis mode performs the microphone test and the diagnosis of TEL adapter unit, TEL antenna and steering unit, and then reads out the results with the sound and indicates them on the display. |
| STEP2 | Speaker adaptation data deleting       | The speaker adaptation data deleting mode can delete the speaker adaptation data.   |
|       | Hands-free phone system initialization | Hands-free phone system initialization mode can perform the initialization of hands-free phone system.  |

#### SELF-DIAGNOSIS RESULTS

Self-diagnosis mode reads out the self-diagnosis results and indicates DTC on the display.

#### NOTE:

- Error count is read out simultaneously when reading out the DTC name.
- The errors are read out continuously when some errors occur at the same time. The DTC displays are combined and displayed. For example, DTC 01100 is displayed when DTC 01000 and DTC 00100 are indicated at the same time.

#### Self-diagnosis results

| DTC       | DTC name                               | Possible causes  |
|-----------|--|------------------|
| DTC 10000 | INTERNAL FAILURE                       | TEL adapter unit |
| DTC 01000 | ANT. SHORT TO BATT OR OPEN             | TEL antenna      |
| DTC 00100 | ANT. SHORT TO GROUND                   |                  |
| DTC 00010 | STEERING REMOTE BUTTON STUCK A         | Steering switch  |
| DTC 00001 | STEERING REMOTE BUTTON STUCK B         |                  |
| DTC 00000 | THERE ARE NO FAILURE RECORDS TO REPORT | —                |

#### The Details of Error Count

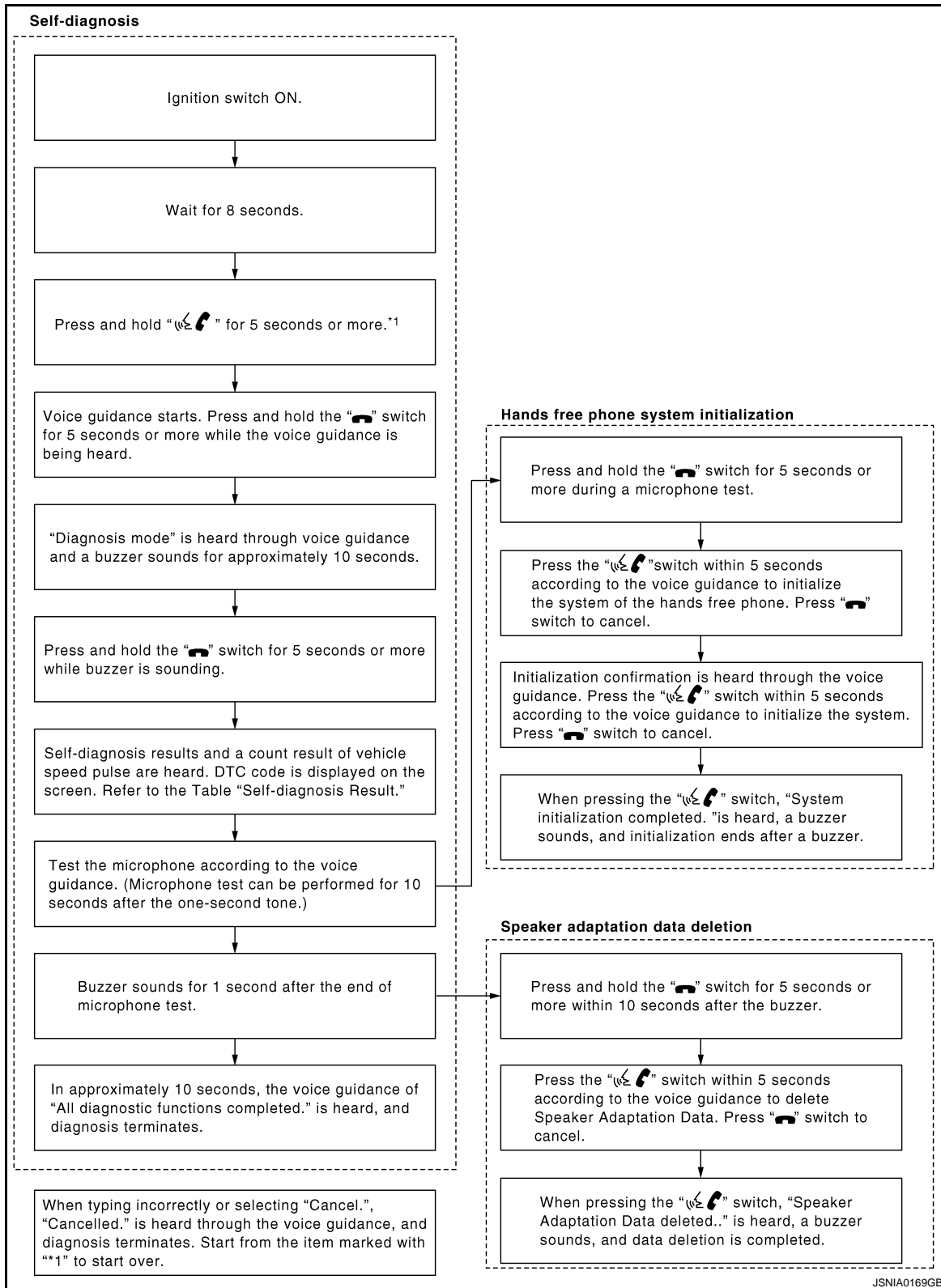
The error count guides "0" when the error occurs. The next time it counts up "1" if it is normal with the ignition switch ON. It continues the count up unless the initialization of hands-free phone system is performed.

# DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

[BOSE AUDIO WITHOUT NAVIGATION]

< SYSTEM DESCRIPTION >

## FLOW CHART OF TROUBLE DIAGNOSIS



# U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## DTC/CIRCUIT DIAGNOSIS

### U1000 CAN COMM CIRCUIT

#### Description

INFOID:0000000004238561

CAN (Controller Area Network) is a serial communication line for real-time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independently). In CAN communication, control units are connected with 2 communication lines (CAN-H, CAN-L) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN Communication Signal Chart. Refer to [LAN-28, "CAN Communication Signal Chart"](#).

#### DTC Logic

INFOID:0000000004238562

#### DTC DETECTION LOGIC

| DTC   | Display contents of CONSULT-III | Diagnostic item is detected when ...   | Probable malfunction location |
|-------|---------------------------------|--|-------------------------------|
| U1000 | CAN COMM CIRCUIT                | AV control unit is not transmitting or receiving CAN communication signal for 2 seconds or more. | CAN communication system.     |

#### Diagnosis Procedure

INFOID:0000000004238563

##### 1. PERFORM SELF-DIAGNOSTIC

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Check "Self Diagnostic Result" of "MULTI AV".

Is "CAN COMM CIRCUIT" displayed?

- YES >> Refer to "LAN system". Refer to [LAN-19, "Trouble Diagnosis Flow Chart"](#).  
NO >> Refer to GI section. Refer to [GI-41, "Intermittent Incident"](#).

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# U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## U1010 CONTROL UNIT (CAN)

### Description

INFOID:000000004238564

Initial diagnosis of AV control unit.

### DTC Logic

INFOID:000000004238565

### DTC DETECTION LOGIC

| DTC   | Display contents of CONSULT-III | Diagnostic item is detected when ...           | Probable malfunction location |
|-------|---------------------------------|--|-------------------------------|
| U1010 | CONTROL UNIT (CAN)              | CAN initial diagnosis malfunction is detected. | AV control unit.              |

### Diagnosis Procedure

INFOID:000000004238566

#### 1. REPLACE AV CONTROL UNIT

When DTC U1010 is detected, replace AV control unit.

>> INSPECTION END

# U1310 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## U1310 AV CONTROL UNIT

### Description

INFOID:000000004238567

Replace the AV control unit if this DTC is displayed. Refer to [AV-325, "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"><li>• It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li><li>• AV control unit includes audio function and vehicle information function.</li><li>• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li><li>• It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li><li>• It inputs the illumination signals that are required for the display dimming control.</li><li>• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li><li>• Auxiliary image signal is input from the auxiliary input jacks.</li><li>• BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li></ul> |

### DTC Logic

INFOID:000000004238568

| DTC   | Display contents of CONSULT-III | DTC Detection Condition   | Action to take           |
|-------|---------------------------------|---|--------------------------|
| U1310 | CONTROL UNIT (AV) [U1310]       | An initial diagnosis error is detected in AV communication circuit. | Replace AV control unit. |

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# U1200 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## U1200 AV CONTROL UNIT

### Description

INFOID:000000004238569

Replace the AV control unit if this DTC is displayed. Refer to [AV-325, "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"><li>• It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li><li>• AV control unit includes audio function and vehicle information function.</li><li>• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li><li>• It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li><li>• It inputs the illumination signals that are required for the display dimming control.</li><li>• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li><li>• Auxiliary image signal is input from the auxiliary input jacks.</li><li>• BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li></ul> |

### DTC Logic

INFOID:000000004238570

| DTC   | Display contents of CONSULT-III    | DTC Detection Condition   | Action to take           |
|-------|------------------------------------|---|--------------------------|
| U1200 | Cont Unit<br>FLASH- ROM<br>[U1200] | An internal malfunction is detected in AV control unit (FLASH-ROM). | Replace AV control unit. |

# U1216 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## U1216 AV CONTROL UNIT

### Description

INFOID:000000004238571

Replace the AV control unit if this DTC is displayed. Refer to [AV-325, "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"><li>• It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li><li>• AV control unit includes audio function and vehicle information function.</li><li>• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li><li>• It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li><li>• It inputs the illumination signals that are required for the display dimming control.</li><li>• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li><li>• Auxiliary image signal is input from the auxiliary input jacks.</li><li>• BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li></ul> |

### DTC Logic

INFOID:000000004238572

| DTC   | Display contents of CONSULT-III | DTC Detection Condition   | Action to take           |
|-------|---------------------------------|---|--------------------------|
| U1216 | CAN CONT [U1216]                | Internal malfunction of AV control unit (CAN controller) is detected. | Replace AV control unit. |

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# U1243 DISPLAY UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## U1243 DISPLAY UNIT

### Description

INFOID:000000004238573

| Part name    | Description   |
|--------------|---|
| DISPLAY UNIT | <ul style="list-style-type: none"><li>• Display image is controlled by the serial communication from AV control unit.</li><li>• Inputs the RGB image signal (RGB, RGB area and RGB synchronizing) from AV control unit and the auxiliary image signal from the auxiliary input jacks.</li><li>• Outputs the synchronizing signals (HP and VP) to the AV control unit.</li></ul> |

### DTC Logic

INFOID:000000004238574

| DTC   | Display contents of CONSULT-III | DTC Detection Condition  | Possible causes   |
|-------|---------------------------------|--|---|
| U1243 | FRONT DISP CONN [U1243]         | <ul style="list-style-type: none"><li>• Display unit power supply and ground circuit malfunction is detected.</li><li>• Malfunction is detected in communication circuit between AV control unit and display unit.</li><li>• Malfunction is detected in communication signal between AV control unit and display unit.</li></ul> | <ul style="list-style-type: none"><li>• Display unit power supply and ground circuit.</li><li>• Communication circuit between AV control unit and display unit.</li></ul> |

### Diagnosis Procedure

INFOID:000000004460179

#### 1. CHECK DISPLAY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check display unit power supply and ground circuit. Refer to [AV-165, "DISPLAY UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

#### 2. CHECK CONTINUITY COMMUNICATION CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |           | AV control unit |           | Continuity |
|--------------|-----------|-----------------|-----------|------------|
| Connector    | Terminals | Connector       | Terminals |            |
| M71          | 11        | M83             | 56        | Existed    |
|              | 22        |                 | 44        |            |

4. Check continuity between display unit harness connector and ground.

| Display unit |           | Ground | Continuity  |
|--------------|-----------|--------|-------------|
| Connector    | Terminals |        |             |
| M71          | 11        |        | Not existed |
|              | 22        |        |             |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

#### 3. CHECK COMMUNICATION SIGNAL

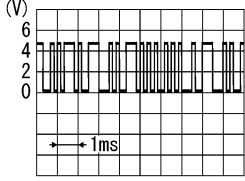
1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.



# U1243 DISPLAY UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

| (+)          |          | (-)    | Condition                          | Reference value  |
|--------------|----------|--------|------------------------------------|--|
| Display unit |          |        |                                    |  |
| Connector    | Terminal |        |                                    |  |
| M71          | 11       | Ground | When adjusting display brightness. |  <p>PKIB5039J</p> |

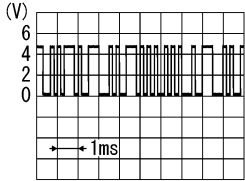
Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

## 4. CHECK COMMUNICATION SIGNAL

Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Condition                          | Reference value   |
|--------------|----------|--------|------------------------------------|---|
| Display unit |          |        |                                    |   |
| Connector    | Terminal |        |                                    |   |
| M71          | 22       | Ground | When adjusting display brightness. |  <p>PKIB5039J</p> |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace display unit.

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# U1255 SATELLITE RADIO TUNER

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## U1255 SATELLITE RADIO TUNER

### Description

INFOID:000000004238576

| Part name             | Description   |
|-----------------------|---|
| SATELLITE RADIO TUNER | <ul style="list-style-type: none"> <li>Inputs the satellite radio signal from satellite radio antenna and outputs it to the AV control unit.</li> <li>It is controlled with the communication (communication signal, request signal) from AV control unit.</li> </ul> |

### DTC Logic

INFOID:000000004238577

| DTC   | Display contents of CONSULT-III | DTC Detection Condition   | Possible causes   |
|-------|---------------------------------|---|---|
| U1255 | SAT CONN [U1255]                | <ul style="list-style-type: none"> <li>Satellite radio tuner power supply and ground circuit malfunction is detected.</li> <li>Malfunction is detected in communication circuit between AV control unit and satellite radio tuner.</li> <li>Malfunction is detected in communication signal between AV control unit and satellite radio tuner.</li> <li>Malfunction is detected in request signal circuit between AV control unit and satellite radio tuner.</li> </ul> | <ul style="list-style-type: none"> <li>Satellite radio tuner power supply and ground circuit.</li> <li>Communication circuit between AV control unit and satellite radio tuner.</li> <li>Request signal circuit between AV control unit and satellite radio tuner.</li> </ul> |

### Diagnosis Procedure

INFOID:000000004460212

#### 1. CHECK SATELLITE RADIO TUNER POWER SUPPLY AND GROUND CIRCUIT

Check satellite radio tuner power supply and ground circuit. Refer to [AV-168, "SATELLITE RADIO TUNER : Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair malfunctioning parts.

#### 2. CHECK CONTINUITY COMMUNICATION CIRCUIT AND REQUEST SIGNAL CIRCUIT

- Turn ignition switch OFF.
- Disconnect AV control unit connector and satellite radio tuner connector.
- Check continuity between AV control unit harness connector and satellite radio tuner harness connector.

| AV control unit |           | Satellite radio tuner |           | Continuity |
|-----------------|-----------|-----------------------|-----------|------------|
| Connector       | Terminals | Connector             | Terminals |            |
| M82             | 28        | B236                  | 8         | Existed    |
|                 | 29        |                       | 9         |            |
|                 | 30        |                       | 10        |            |

- Check continuity between AV control unit harness connector and ground.

| AV control unit |           | Ground | Continuity  |
|-----------------|-----------|--------|-------------|
| Connector       | Terminals |        |             |
| M82             | 28        |        | Not existed |
|                 | 29        |        |             |
|                 | 30        |        |             |

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Repair harness or connector.

# U1255 SATELLITE RADIO TUNER

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## 3. CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between AV control unit harness connector and ground.

| (+)             |           | (-)    | Reference value<br>(Approx.) |
|-----------------|-----------|--------|------------------------------|
| AV control unit |           |        |                              |
| Connector       | Terminals |        |                              |
| M82             | 28        | Ground |                              |
|                 | 29        | Ground |                              |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

## 4. CHECK SATELLITE RADIO TUNER

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector.
3. Connect satellite radio tuner.
4. Turn ignition switch ON.
5. Check signal between satellite radio tuner harness connector and ground.

| (+)                   |          | (-)    | Reference value<br>(Approx.) |
|-----------------------|----------|--------|------------------------------|
| Satellite radio tuner |          |        |                              |
| Connector             | Terminal |        |                              |
| B236                  | 10       | Ground |                              |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace satellite radio tuner.

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AV

# U1300 AV COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## U1300 AV COMM CIRCUIT

### Description

INFOID:000000004238579

U1300 is indicated when malfunction occurs in communication signal of multi AV system. Indicated simultaneously, without fail, with the malfunction of control units connected to AV control unit with communication line. Determine the possible malfunction cause from the table below.

### SELF-DIAGNOSIS RESULTS DISPLAY ITEM

| DTC                              | Display contents of CONSULT-III   | DTC Detection Condition  | Possible causes  |
|----------------------------------|---|--|--|
| U1300<br>U1240                   | <ul style="list-style-type: none"> <li>AV COMM CIRCUIT [U1300]</li> <li>SWITCH CONN [U1240]</li> </ul>  | <ul style="list-style-type: none"> <li>Multifunction switch power supply and ground circuit malfunction is detected.</li> <li>Malfunction is detected in AV communication circuit between AV control unit and multifunction switch.</li> <li>Malfunction is detected in AV communication signal between AV control unit and multifunction switch.</li> </ul> | <ul style="list-style-type: none"> <li>Multifunction switch power supply and ground circuits.</li> <li>AV communication circuit between AV control unit and multifunction switch.</li> </ul> |
| U1300<br>U1254                   | <ul style="list-style-type: none"> <li>AV COMM CIRCUIT [U1300]</li> <li>iPod CONN [U1254]</li> </ul>  | <ul style="list-style-type: none"> <li>iPod adapter power supply and ground circuit malfunction is detected.</li> <li>Malfunction is detected in AV communication circuit between AV control unit and iPod adapter.</li> <li>A malfunction is detected in AV communication signal between AV control unit and iPod adapter.</li> </ul>                       | <ul style="list-style-type: none"> <li>iPod adapter power supply and ground circuits.</li> <li>AV communication circuit between AV control unit and iPod adapter.</li> </ul>                 |
| U1300<br>U1256                   | <ul style="list-style-type: none"> <li>AV COMM CIRCUIT [U1300]</li> <li>HAND FREE CONN [U1256]</li> </ul>   | <ul style="list-style-type: none"> <li>TEL adapter unit power supply and ground circuit malfunction is detected.</li> <li>Malfunction is detected in AV communication circuit between AV control unit and TEL adapter unit.</li> <li>Malfunction is detected in AV communication signal between AV control unit and TEL adapter unit.</li> </ul>             | <ul style="list-style-type: none"> <li>TEL adapter unit power supply and ground circuit.</li> <li>AV communication circuit between AV control unit and TEL adapter unit.</li> </ul>          |
| U1300<br>U1240<br>U1254<br>U1256 | <ul style="list-style-type: none"> <li>AV COMM CIRCUIT [U1300]</li> <li>SWITCH CONN [U1240]</li> <li>iPod CONN [U1254]</li> <li>HAND FREE CONN [U1256]</li> </ul> | <p>Malfunction is detected in AV communication circuit between AV control unit and the branch point multifunction switch and AV control unit.</p>  | <p>AV communication circuit between AV control unit and the branch point multifunction switch and AV control unit.</p>   |

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## POWER SUPPLY AND GROUND CIRCUIT

### AV CONTROL UNIT

#### AV CONTROL UNIT : Diagnosis Procedure

INFOID:000000004238580

#### 1.CHECK FUSE

Check for blown fuses.

| Power source                | Fuse No. |
|-----------------------------|----------|
| Battery                     | 34       |
| Ignition switch ACC or ON   | 19       |
| Ignition switch ON or START | 3        |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

#### 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between AV control unit harness connectors and ground.

| Signal name          | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|----------------------|---------------|--------------|--------------------------|-----------------|
| Battery power supply | M81           | 19           | OFF                      | Battery voltage |
| ACC power supply     | M81           | 7            | ACC                      | Battery voltage |
| Ignition signal      | M85           | 104          | ON                       | Battery voltage |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between AV control unit and fuse.

#### 3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect AV control unit connectors.
3. Check continuity between AV control unit harness connectors and ground.

| Signal name | Connector No. | Terminal No. | Ignition switch position | Continuity |
|-------------|---------------|--------------|--------------------------|------------|
| Ground      | M81           | 20           | OFF                      | Existed    |
|             | M85           | 85           |                          |            |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

## DISPLAY UNIT

#### DISPLAY UNIT : Diagnosis Procedure

INFOID:000000004238581

#### 1.CHECK POWER SUPPLY CIRCUIT (DISPLAY SIDE)

Check voltage between display unit harness connector and ground.

| Signal name  | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|--------------|---------------|--------------|--------------------------|-----------------|
| Inverter VCC | M71           | 2            | ACC                      | 9 V             |
| Signal VCC   |               | 3            |                          |                 |

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

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# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## 2.CHECK POWER SUPPLY CIRCUIT (CONTINUITY)

1. Turn ignition switch OFF.
2. Disconnect the harness connector between display unit and AV control unit.
3. Check continuity between display unit harness connector M71 and AV control unit harness connector M83.

| Signal name  | Display unit (M71) | AV control unit (M83) | Continuity |
|--------------|--------------------|-----------------------|------------|
| Inverter VCC | 2                  | 59                    | Existed    |
| Signal VCC   | 3                  | 47                    | Existed    |

4. Check continuity between display unit harness connector M71 and ground.

| Signal name  | Display unit (M71) | —      | Continuity  |
|--------------|--------------------|--------|-------------|
| Inverter VCC | 2                  | Ground | Not existed |
| Signal VCC   | 3                  | Ground | Not existed |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

## 3.CHECK POWER SUPPLY CIRCUIT (AV CONTROL UNIT SIDE)

1. Connect the AV control unit harness connector.
2. Turn ignition switch ACC.
3. Check voltage between AV control unit harness connector and ground.

| Signal name  | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|--------------|---------------|--------------|--------------------------|-----------------|
| Inverter VCC | M83           | 59           | ACC                      | 9 V             |
| Signal VCC   |               | 47           |                          |                 |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replacement of AV control unit.

## 4.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector.
3. Check continuity between display unit harness connectors and ground.

| Signal name | Connector No. | Terminal No. | Ignition switch position | Continuity |
|-------------|---------------|--------------|--------------------------|------------|
| Ground      | M71           | 1            | OFF                      | Existed    |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

## MULTIFUNCTION SWITCH

### MULTIFUNCTION SWITCH : Diagnosis Procedure

INFOID:000000004238582

#### 1.CHECK FUSE

Check for blown fuses.

| Power source              | Fuse No. |
|---------------------------|----------|
| Ignition switch ACC or ON | 19       |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between multifunction switch harness connector and ground.

| Signal name      | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|------------------|---------------|--------------|--------------------------|-----------------|
| ACC power supply | M72           | 3            | ACC                      | Battery voltage |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between multifunction switch and fuse.

## 3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect multifunction switch connector.
3. Check continuity between multifunction switch harness connector and ground.

| Signal name | Connector No. | Terminal No. | Ignition switch position | Continuity |
|-------------|---------------|--------------|--------------------------|------------|
| Ground      | M72           | 1            | OFF                      | Existed    |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

## BOSE AMP.

### BOSE AMP. : Diagnosis Procedure

INFOID:000000004238583

## 1.CHECK FUSE

Check for blown fuses.

| Power source | Fuse No. |
|--------------|----------|
| Battery      | 5, 8     |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

## 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between BOSE amp. harness connector and ground.

| Signal name          | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|----------------------|---------------|--------------|--------------------------|-----------------|
| Battery power supply | B42           | 10           | OFF                      | Battery voltage |
|                      |               | 11           |                          |                 |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between BOSE amp. and fuse.

## 3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BOSE amp. connector.
3. Check continuity between BOSE amp. harness connector and ground.

| Signal name | Connector No. | Terminal No. | Ignition switch position | Continuity |
|-------------|---------------|--------------|--------------------------|------------|
| Ground      | B42           | 7            | OFF                      | Existed    |
|             |               | 12           |                          |            |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## iPod ADAPTER

### iPod ADAPTER : Diagnosis Procedure

INFOID:000000004238584

#### 1.CHECK FUSE

Check for blown fuses.

| Power source              | Fuse No. |
|---------------------------|----------|
| Battery                   | 34       |
| Ignition switch ACC or ON | 19       |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

#### 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between iPod adapter harness connector and ground.

| Signal name          | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|----------------------|---------------|--------------|--------------------------|-----------------|
| Battery power supply | M111          | 5            | OFF                      | Battery voltage |
| ACC power supply     | M111          | 3            | ACC                      | Battery voltage |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Check harness between iPod adapter and fuse.

## SATELLITE RADIO TUNER

### SATELLITE RADIO TUNER : Diagnosis Procedure

INFOID:000000004238585

#### 1.CHECK FUSE

Check for blown fuses.

| Power source              | Fuse No. |
|---------------------------|----------|
| Battery                   | 34       |
| Ignition switch ACC or ON | 19       |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

#### 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between satellite radio tuner harness connector and ground.

| Signal name          | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|----------------------|---------------|--------------|--------------------------|-----------------|
| Battery power supply | B236          | 12           | OFF                      | Battery voltage |
| ACC power supply     | B236          | 16           | ACC                      | Battery voltage |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Check harness between satellite radio tuner and fuse.

## TEL ADAPTER UNIT

### TEL ADAPTER UNIT : Diagnosis Procedure

INFOID:000000004238586

#### 1.CHECK FUSE

Check for blown fuses.



# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

| Power source                | Fuse No. |
|-----------------------------|----------|
| Battery                     | 34       |
| Ignition switch ACC or ON   | 19       |
| Ignition switch ON or START | 3        |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

## 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between TEL adapter unit harness connector and ground.

| Signal name          | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|----------------------|---------------|--------------|--------------------------|-----------------|
| Battery power supply | B237          | 1            | OFF                      | Battery voltage |
| ACC power supply     | B237          | 2            | ACC                      | Battery voltage |
| Ignition signal      | B237          | 3            | ON                       | Battery voltage |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between TEL adapter unit and fuse.

## 3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect TEL adapter unit connector.
3. Check continuity between TEL adapter unit harness connector and ground.

| Signal name | Connector No. | Terminal No.      | Ignition switch position | Continuity |
|-------------|---------------|-------------------|--------------------------|------------|
| Ground      | B237          | 4, 14, 19, 23, 24 | OFF                      | Existed    |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

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AV

# RGB (R: RED) SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## RGB (R: RED) SIGNAL CIRCUIT

### Description

INFOID:000000004238587

Transmit the image displayed with AV control unit with RGB signal to the display unit.

### Diagnosis Procedure

INFOID:000000004460181

#### 1. CHECK CONTINUITY RGB (R: RED) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M71          | 17       | M83             | 40       | Existed    |

4. Check continuity between display unit harness connector and ground.

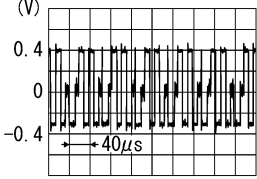
| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M71          | 17       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> Repair harness or connector.

#### 2. CHECK RGB (R: RED) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Condition   | Reference value  |
|--------------|----------|--------|---|--|
| Display unit |          |        |   |  |
| Connector    | Terminal |        |   |  |
| M71          | 17       | Ground | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen. |  <p>(V)</p> <p>0.4</p> <p>0</p> <p>-0.4</p> <p>40µs</p> <p>SKIB2238J</p> |

Is the inspection result normal?

- YES >> Replace display unit.  
 NO >> Replace AV control unit.

# RGB (G: GREEN) SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## RGB (G: GREEN) SIGNAL CIRCUIT

### Description

INFOID:000000004238589

Transmit the image displayed with AV control unit with RGB signal to the display unit.

### Diagnosis Procedure

INFOID:000000004460182

#### 1. CHECK CONTINUITY RGB (G: GREEN) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M71          | 6        | M83             | 39       | Existed    |

4. Check continuity between display unit harness connector and ground.

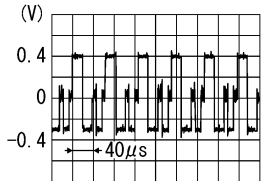
| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M71          | 6        |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair harness or connector.

#### 2. CHECK RGB (G: GREEN) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Condition   | Reference value  |
|--------------|----------|--------|---|--|
| Display unit |          |        |   |  |
| Connector    | Terminal |        |   |  |
| M71          | 6        | Ground | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen. |  <p>(V)</p> <p>0.4</p> <p>0</p> <p>-0.4</p> <p>40µs</p> <p>SKIB2236J</p> |

Is the inspection result normal?

- YES >> Replace display unit.  
NO >> Replace AV control unit.

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# RGB (B: BLUE) SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## RGB (B: BLUE) SIGNAL CIRCUIT

### Description

INFOID:000000004238591

Transmit the image displayed with AV control unit with RGB signal to the display unit.

### Diagnosis Procedure

INFOID:000000004460183

#### 1. CHECK CONTINUITY RGB (B: BLUE) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M71          | 18       | M83             | 38       | Existed    |

4. Check continuity between display unit harness connector and ground.

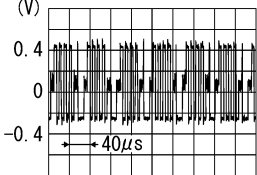
| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M71          | 18       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> Repair harness or connector.

#### 2. CHECK RGB (B: BLUE) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Condition   | Reference value  |
|--------------|----------|--------|---|--|
| Display unit |          |        |   |  |
| Connector    | Terminal |        |   |  |
| M71          | 18       | Ground | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen. |  <p>(V)</p> <p>0.4</p> <p>0</p> <p>-0.4</p> <p>40µs</p> <p>SKIB2237J</p> |

Is the inspection result normal?

- YES >> Replace display unit.  
 NO >> Replace AV control unit.

# RGB SYNCHRONIZING SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## RGB SYNCHRONIZING SIGNAL CIRCUIT

### Description

INFOID:000000004238593

Transmit the RGB synchronizing signal to the display unit so as to synchronize the RGB image displayed with AV control unit.

### Diagnosis Procedure

INFOID:000000004460184

#### 1. CHECK CONTINUITY RGB SYNCHRONIZING SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M71          | 19       | M83             | 41       | Existed    |

4. Check continuity between display unit harness connector and ground.

| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M71          | 19       |        | Not existed |

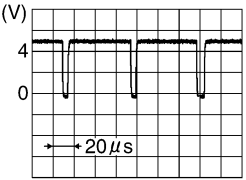
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2. CHECK RGB SYNCHRONIZING SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Reference value  |
|--------------|----------|--------|--|
| Display unit |          |        |  |
| Connector    | Terminal |        |  |
| M71          | 19       | Ground |  <p style="text-align: center;">SKIB3603E</p> |

Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

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AV

# RGB AREA (YS) SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## RGB AREA (YS) SIGNAL CIRCUIT

### Description

INFOID:000000004238595

Transmits the display area of RGB image displayed by AV control unit with RGB area (YS) signal to display unit.

### Diagnosis Procedure

INFOID:000000004460185

#### 1. CHECK CONTINUITY RGB AREA (YS) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M71          | 9        | M83             | 43       | Existed    |

4. Check continuity between display unit harness connector and ground.

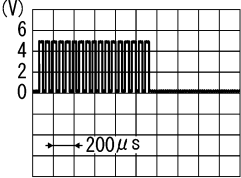
| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M71          | 9        |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> Repair harness or connector.

#### 2. CHECK RGB AREA (YS) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)       |          | (-)    | Condition                  | Reference value (Approx.)  |
|-----------|----------|--------|----------------------------|--|
| Connector | Terminal |        |                            |  |
| M71       | 9        | Ground | At RGB image displayed     | 5 V  |
|           |          |        | At AUX image is displayed. |  <p style="text-align: right; font-size: small;">PKIB4948J</p> |

Is the inspection result normal?

- YES >> Replace display unit.  
 NO >> Replace AV control unit.

# HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

### Description

INFOID:000000004238597

In composite image (AUX image, camera image), transmit the vertical synchronizing (VP) signal and horizontal synchronizing (HP) signal from display unit to AV control unit so as to synchronize the RGB images displayed with AV control unit such as the image quality adjusting menu, etc.

### Diagnosis Procedure

INFOID:000000004460186

#### 1. CHECK CONTINUITY HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M71          | 8        | M83             | 45       | Existed    |

4. Check continuity between display unit harness connector and ground.

| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M71          | 8        |        | Not existed |

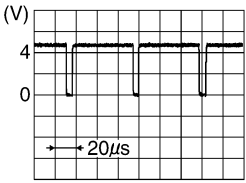
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2. CHECK HORIZONTAL SYNCHRONIZING (HP) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+) Display unit |          | (-)    | Reference value   |
|------------------|----------|--------|---|
| Connector        | Terminal |        |   |
| M71              | 8        | Ground |  |

Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace display unit.

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# VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

### Description

INFOID:000000004238599

In composite image (AUX image, camera image), transmit the vertical synchronizing (VP) signal and horizontal synchronizing (HP) signal from display unit to AV control unit so as to synchronize the RGB images displayed with AV control unit such as the image quality adjusting menu, etc.

### Diagnosis Procedure

INFOID:000000004460187

#### 1. CHECK CONTINUITY VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M71          | 20       | M83             | 57       | Existed    |

4. Check continuity between display unit harness connector and ground.

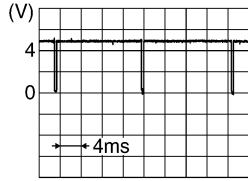
| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M71          | 20       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair harness or connector.

#### 2. CHECK VERTICAL SYNCHRONIZING (VP) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Reference value   |
|--------------|----------|--------|---|
| Display unit |          |        |   |
| Connector    | Terminal |        |   |
| M71          | 20       | Ground |  |

Is the inspection result normal?

- YES >> Replace AV control unit.  
NO >> Replace display unit.



# AUX IMAGE SIGNAL CIRCUIT

[BOSE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

## AUX IMAGE SIGNAL CIRCUIT

### Description

INFOID:000000004238601

- Transmits the image signal of AUX device from auxiliary input jacks to AV control unit.
- AV control unit transmits the image signal that is inputted to the display unit.

### Diagnosis Procedure

INFOID:000000004460188

#### 1. CHECK CONTINUITY AUX IMAGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect auxiliary input jacks connector and AV control unit connector.
3. Check continuity between auxiliary input jacks harness connector and AV control unit harness connector.

| Auxiliary input jacks |          | AV control unit |          | Continuity |
|-----------------------|----------|-----------------|----------|------------|
| Connector             | Terminal | Connector       | Terminal |            |
| M154*1                | 7        | M84             | 66       | Existed    |
| M362*2                |          |                 |          |            |

- \*1: A/T models
- \*2: M/T models

4. Check continuity between auxiliary input jacks harness connector and ground.

| Auxiliary input jacks |          | Ground | Continuity  |
|-----------------------|----------|--------|-------------|
| Connector             | Terminal |        |             |
| M154*1                | 7        | Ground | Not existed |
| M362*2                |          |        |             |

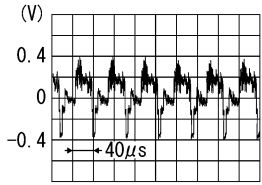
- \*1: A/T models
- \*2: M/T models

#### Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> Repair harness or connector.

#### 2. CHECK AUX IMAGE SIGNAL

1. Connect auxiliary input jacks connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between auxiliary input jacks harness connector and ground.

| (+)                   |          | (-)    | Condition               | Reference value  |
|-----------------------|----------|--------|-------------------------|--|
| Auxiliary input jacks |          |        |                         |  |
| Connector             | Terminal |        |                         |  |
| M154*1                | 7        | Ground | At AUX image displayed. |  <p>(V)</p> <p>0.4</p> <p>0</p> <p>-0.4</p> <p>40µs</p> <p>SKIB2251J</p> |
| M362*2                |          |        |                         |  |

- \*1: A/T models
- \*2: M/T models

#### Is the inspection result normal?

- YES >> GO TO 3.  
 NO >> Check that there is no malfunction in the external device.

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# AUX IMAGE SIGNAL CIRCUIT

[BOSE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

## 3. CHECK CONTINUITY AUX IMAGE SIGNAL CIRCUIT (AV CONTROL UNIT AND DISPLAY UNIT)

1. Turn ignition switch OFF.
2. Disconnect auxiliary input jacks connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M71          | 15       | M83             | 36       | Existed    |

4. Check continuity between display unit harness connector and ground.

| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M71          | 15       |        | Not existed |

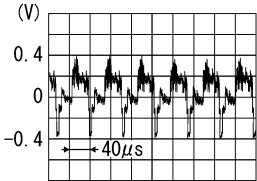
Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

## 4. CHECK AUX IMAGE SIGNAL

1. Connect AV control unit connector and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Condition               | Reference value  |
|--------------|----------|--------|-------------------------|--|
| Display unit |          |        |                         |  |
| Connector    | Terminal |        |                         |  |
| M71          | 15       | Ground | At AUX image displayed. |  <p style="text-align: right; font-size: small;">SKIB2251J</p> |

Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

# CD EJECT SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## CD EJECT SIGNAL CIRCUIT

### Description

INFOID:000000004238603

The eject signal is output to AV control unit when the eject switch of multifunction switch is pressed.

### Diagnosis Procedure

INFOID:000000004460189

#### 1. CHECK CONTINUITY CD EJECT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect multifunction switch connector and AV control unit connector.
3. Check continuity between multifunction switch harness connector and AV control unit harness connector.

| Multifunction switch |          | AV control unit |          | Continuity |
|----------------------|----------|-----------------|----------|------------|
| Connector            | Terminal | Connector       | Terminal |            |
| M72                  | 14       | M85             | 103      | Existed    |

4. Check continuity between multifunction switch harness connector and ground.

| Multifunction switch |          | Ground | Continuity  |
|----------------------|----------|--------|-------------|
| Connector            | Terminal |        |             |
| M72                  | 14       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair harness or connector.

#### 2. CHECK AV CONTROL UNIT VOLTAGE

1. Connect multifunction switch connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector and ground.

| (+)             |          | (-)    | Condition                 | Voltage (Approx.) |
|-----------------|----------|--------|---------------------------|-------------------|
| AV control unit |          |        |                           |                   |
| Connector       | Terminal |        |                           |                   |
| M85             | 103      | Ground | Pressing the eject switch | 0 V               |
|                 |          |        | Except for above          | 3.3 V             |

Is the inspection result normal?

- YES >> Replace preset switch.  
NO >> Replace AV control unit.

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AV

# MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## MICROPHONE SIGNAL CIRCUIT

### Description

INFOID:000000004238605

Supply power from TEL adapter unit to microphone. The microphone transmits the sound/voice to the microphone.

### Diagnosis Procedure

INFOID:000000004460190

#### 1. CHECK CONTINUITY BETWEEN TEL ADAPTER UNIT AND MICROPHONE CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect TEL adapter unit connector and microphone connector.
3. Check continuity between TEL adapter unit harness connector and microphone harness connector.

| TEL adapter unit |           | Microphone |           | Continuity |
|------------------|-----------|------------|-----------|------------|
| Connector        | Terminals | Connector  | Terminals |            |
| B237             | 7         | R17        | 1         | Existed    |
|                  | 8         |            | 2         |            |
|                  | 29        |            | 4         |            |

4. Check continuity between TEL adapter unit harness connector and ground.

| TEL adapter unit |           | Ground | Continuity  |
|------------------|-----------|--------|-------------|
| Connector        | Terminals |        |             |
| M237             | 7         |        | Not existed |
|                  | 29        |        |             |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2. CHECK VOLTAGE MICROPHONE VCC

1. Connect TEL adapter unit connector.
2. Turn ignition switch ON.
3. Check voltage between TEL adapter unit harness connector.

| (+)              |          | (-)              |          | Voltage<br>(Approx.) |
|------------------|----------|------------------|----------|----------------------|
| TEL adapter unit |          | TEL adapter unit |          |                      |
| Connector        | Terminal | Connector        | Terminal |                      |
| B237             | 29       | B237             | 8        | 5 V                  |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace TEL adapter unit.

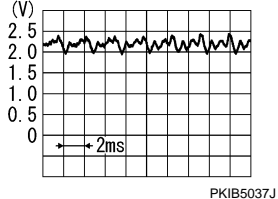
#### 3. CHECK MICROPHONE SIGNAL

1. Connect microphone connector.
2. Check signal between TEL adapter unit harness connector.

# MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

| (+)              |          | (-)              |          | Condition     | Reference value   |
|------------------|----------|------------------|----------|---------------|---|
| TEL adapter unit |          | TEL adapter unit |          |               |   |
| Connector        | Terminal | Connector        | Terminal |               |   |
| B237             | 7        | B237             | 8        | give a voice. |  |

Is the inspection result normal?

- YES >> Replace TEL adapter unit.
- NO >> Replace microphone.

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# CONTROL SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## CONTROL SIGNAL CIRCUIT

### Description

INFOID:000000004238607

TEL adapter unit identifies the vehicle model according to the control signal and performs the control.

### Diagnosis Procedure

INFOID:000000004238608

#### 1. CHECK CONTINUITY CONTROL SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect TEL adapter unit connector.
3. Check continuity between TEL adapter unit harness connector and ground.

| TEL adapter unit |           | Ground | Continuity |
|------------------|-----------|--------|------------|
| Connector        | Terminals |        |            |
| B237             | 23        |        | Existed    |
|                  | 24        |        |            |

#### Is the inspection result normal?

- YES >> Replace TEL adapter unit.  
NO >> Repair harness or connector.

# MODE CHANGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## MODE CHANGE SIGNAL CIRCUIT

### Description

INFOID:000000004238609

- AV control unit transmits the mode change signal to BOSE amp.
- Driver's Audio Stage controls the speaker's output characteristic by BOSE amp. so that the driver's seat is to be the center of sounds.

### Diagnosis Procedure

INFOID:000000004460191

#### 1. CHECK CONTINUITY MODE CHANGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BOSE amp. connector and AV control unit connector.
3. Check continuity between BOSE amp. harness connector and AV control unit harness connector.

| BOSE amp. |          | AV control unit |          | Continuity |
|-----------|----------|-----------------|----------|------------|
| Connector | Terminal | Connector       | Terminal |            |
| B41       | 37       | M82             | 27       | Existed    |

4. Check continuity between BOSE amp. harness connector and ground.

| BOSE amp. |          | Ground | Continuity  |
|-----------|----------|--------|-------------|
| Connector | Terminal |        |             |
| B41       | 37       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair harness or connector.

#### 2. CHECK MODE CHANGE SIGNAL

1. Connect BOSE amp. connector.
2. Turn ignition switch ON.
3. Check voltage between BOSE amp. harness connector and ground.

| (+) BOSE amp. |          | (-)    | Condition                | Voltage (Approx.) |
|---------------|----------|--------|--------------------------|-------------------|
| Connector     | Terminal |        |                          |                   |
| B41           | 37       | Ground | Driver's Audio Stage ON  | 0 V               |
|               |          |        | Driver's Audio Stage OFF | 8.5 V             |

Is the inspection result normal?

- YES >> Replace AV control unit.  
NO >> Replace BOSE amp.

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# COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)

### Description

INFOID:000000004238611

Satellite radio tuner and AV control unit are connected with a serial communication. They transmit the operation signal from AV control unit to satellite radio tuner, and transmit the display signal from satellite radio tuner to AV control unit.

### Diagnosis Procedure

INFOID:000000004238612

#### 1. CHECK CONTINUITY COMMUNICATION SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect satellite radio tuner connector and AV control unit connector.
3. Check continuity between satellite radio tuner harness connector and AV control unit harness connector.

| Satellite radio tuner |           | AV control unit |           | Continuity |
|-----------------------|-----------|-----------------|-----------|------------|
| Connector             | Terminals | Connector       | Terminals |            |
| B236                  | 9         | M82             | 29        | Existed    |
|                       | 10        |                 | 30        |            |

4. Check continuity between satellite radio tuner harness connector and ground.

| Satellite radio tuner |           | Ground | Continuity  |
|-----------------------|-----------|--------|-------------|
| Connector             | Terminals |        |             |
| B236                  | 9         |        | Not existed |
|                       | 10        |        |             |

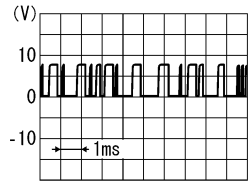
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2. CHECK COMMUNICATION SIGNAL

1. Connect satellite radio tuner connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between satellite radio tuner harness connector and ground.

| (+) Satellite radio tuner |          | (-)    | Condition                              | Reference value   |
|---------------------------|----------|--------|--|---|
| Connector                 | Terminal |        |  |   |
| B236                      | 9        | Ground | When satellite radio mode is selected. | <br>SKIA9300J |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace satellite radio tuner.

#### 3. CHECK COMMUNICATION SIGNAL

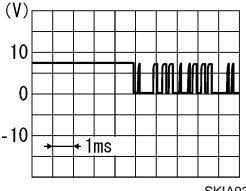
Check signal between satellite radio tuner harness connector and ground.



# COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

| (+)                   |          | (-)    | Condition                              | Reference value  |
|-----------------------|----------|--------|--|--|
| Satellite radio tuner |          |        |  |  |
| Connector             | Terminal |        |  |  |
| B236                  | 10       | Ground | When satellite radio mode is selected. |  |

Is the inspection result normal?

YES >> Replace satellite radio tuner.

NO >> Replace AV control unit.

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# REQUEST SIGNAL CIRCUIT (SAT→CONT)

[BOSE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

## REQUEST SIGNAL CIRCUIT (SAT→CONT)

### Description

INFOID:000000004238613

Request signal transmits the signal to recognize the connection of satellite radio tuner from satellite radio tuner to AV control unit.

### Diagnosis Procedure

INFOID:000000004238614

#### 1. CHECK CONTINUITY REQUEST SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect satellite radio tuner connector and AV control unit connector.
3. Check continuity between satellite radio tuner unit harness connector and AV control unit harness connector.

| Satellite radio tuner |          | AV control unit |          | Continuity |
|-----------------------|----------|-----------------|----------|------------|
| Connector             | Terminal | Connector       | Terminal |            |
| B236                  | 8        | M82             | 28       | Existed    |

4. Check continuity between satellite radio tuner harness connector and ground.

| Satellite radio tuner |          | Ground | Continuity  |
|-----------------------|----------|--------|-------------|
| Connector             | Terminal |        |             |
| B236                  | 8        |        | Not existed |

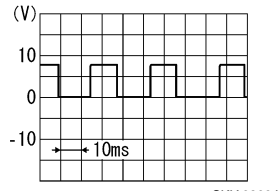
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2. CHECK COMMUNICATION SIGNAL

1. Connect satellite radio tuner connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between satellite radio tuner harness connector and ground.

| (+) Satellite radio tuner |          | (-)    | Condition                              | Reference value  |
|---------------------------|----------|--------|--|--|
| Connector                 | Terminal |        |  |  |
| B236                      | 8        | Ground | When satellite radio mode is selected. |  |

Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace satellite radio tuner.

# STEERING SWITCH SIGNAL A CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## STEERING SWITCH SIGNAL A CIRCUIT

### Description

INFOID:000000004238615

Transmits the steering switch signal to AV control unit.

### Diagnosis Procedure

INFOID:000000004460192

#### 1. CHECK STEERING SWITCH SIGNAL A CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector and spiral cable harness connector.

| AV control unit |          | Spiral cable |          | Continuity |
|-----------------|----------|--------------|----------|------------|
| Connector       | Terminal | Connector    | Terminal |            |
| M81             | 6        | M36          | 24       | Existed    |

3. Check continuity between AV control unit harness connector and ground.

| AV control unit |          | Ground | Continuity  |
|-----------------|----------|--------|-------------|
| Connector       | Terminal |        |             |
| M81             | 6        |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair harness or connector.

#### 2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Replace spiral cable.

#### 3. CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector and spiral cable connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector.

| (+)             |          | (-)             |          | Voltage (Approx.) |
|-----------------|----------|-----------------|----------|-------------------|
| AV control unit |          | AV control unit |          |                   |
| Connector       | Terminal | Connector       | Terminal |                   |
| M81             | 6        | M81             | 15       | 3.3 V             |

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Replace AV control unit.

#### 4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-187, "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace steering switch.

### Component Inspection

INFOID:000000004238617

Measure the resistance between the steering switch connector terminals 14 to 17 and 15 to 17.

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# STEERING SWITCH SIGNAL A CIRCUIT

[BOSE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

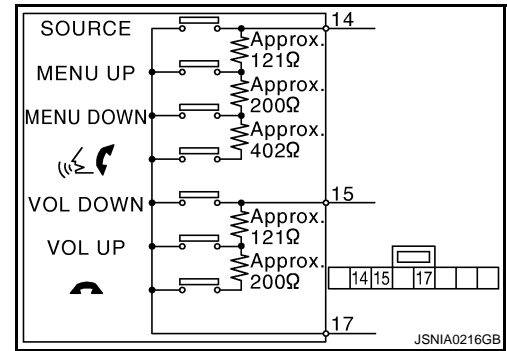
Standard

**Between terminals 14 and 17**

-  **switch ON** : 716 – 730 Ω
- MENU DOWN switch ON** : 318 – 324 Ω
- MENU UP switch ON** : 120 – 122 Ω
- SOURCE switch ON** : 0 Ω

**Between terminals 15 and 17**

-  **switch ON** : 318 – 324 Ω
- VOL UP switch ON** : 120 – 122 Ω
- VOL DOWN switch ON** : 0 Ω



# STEERING SWITCH SIGNAL B CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## STEERING SWITCH SIGNAL B CIRCUIT

### Description

INFOID:000000004238618

Transmits the steering switch signal to AV control unit.

### Diagnosis Procedure

INFOID:000000004460193

#### 1. CHECK STEERING SWITCH SIGNAL B CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector and spiral cable harness connector.

| AV control unit |          | Spiral cable |          | Continuity |
|-----------------|----------|--------------|----------|------------|
| Connector       | Terminal | Connector    | Terminal |            |
| M81             | 16       | M36          | 31       | Existed    |

3. Check continuity between AV control unit harness connector and ground.

| AV control unit |          | Ground | Continuity  |
|-----------------|----------|--------|-------------|
| Connector       | Terminal |        |             |
| M81             | 16       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair harness or connector.

#### 2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Replace spiral cable.

#### 3. CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector and spiral cable connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector.

| (+)             |          | (-)             |          | Voltage (Approx.) |
|-----------------|----------|-----------------|----------|-------------------|
| AV control unit |          | AV control unit |          |                   |
| Connector       | Terminal | Connector       | Terminal |                   |
| M81             | 16       | M81             | 15       | 3.3 V             |

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Replace AV control unit.

#### 4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-189, "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace steering switch.

### Component Inspection

INFOID:000000004238620

Measure the resistance between the steering switch connector terminals 14 to 17 and 15 to 17.

# STEERING SWITCH SIGNAL B CIRCUIT

[BOSE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

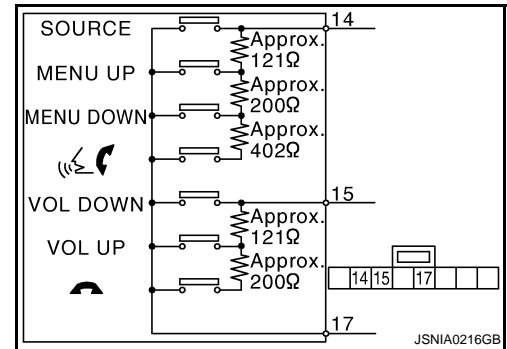
Standard

Between terminals 14 and 17

-  switch ON : 716 – 730 Ω
- MENU DOWN switch ON : 318 – 324 Ω
- MENU UP switch ON : 120 – 122 Ω
- SOURCE switch ON : 0 Ω

Between terminals 15 and 17

-  switch ON : 318 – 324 Ω
- VOL UP switch ON : 120 – 122 Ω
- VOL DOWN switch ON : 0 Ω



# STEERING SWITCH SIGNAL GND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## STEERING SWITCH SIGNAL GND CIRCUIT

### Description

INFOID:000000004238621

Transmits the steering switch signal to AV control unit.

### Diagnosis Procedure

INFOID:000000004460194

#### 1.CHECK STEERING SWITCH SIGNAL GND CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector and spiral cable harness connector.

| AV control unit |          | Spiral cable |          | Continuity |
|-----------------|----------|--------------|----------|------------|
| Connector       | Terminal | Connector    | Terminal |            |
| M81             | 15       | M36          | 33       | Existed    |

3. Connect AV control unit connector.

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair harness or connector.

#### 2.CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Replace spiral cable.

#### 3.CHECK GROUND CIRCUIT

1. Connect AV control unit connector.
2. Check continuity between AV control unit harness connector and ground.

| AV control unit |          | Ground | Continuity  |
|-----------------|----------|--------|-------------|
| Connector       | Terminal |        |             |
| M81             | 15       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Replace AV control unit.

#### 4.CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-191, "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace steering switch.

### Component Inspection

INFOID:000000004238623

Measure the resistance between the steering switch connector terminals 14 to 17 and 15 to 17.

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# STEERING SWITCH SIGNAL GND CIRCUIT

[BOSE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

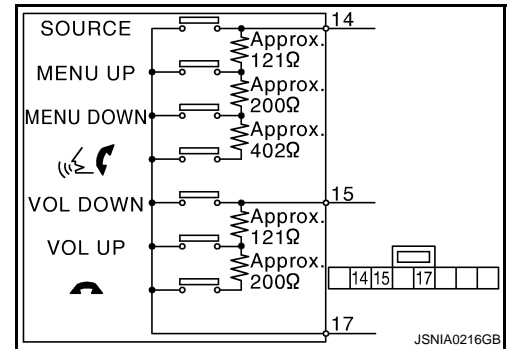
Standard

## Between terminals 14 and 17

-  **switch ON** : 716 – 730 Ω
- MENU DOWN switch ON** : 318 – 324 Ω
- MENU UP switch ON** : 120 – 122 Ω
- SOURCE switch ON** : 0 Ω

## Between terminals 15 and 17

-  **switch ON** : 318 – 324 Ω
- VOL UP switch ON** : 120 – 122 Ω
- VOL DOWN switch ON** : 0 Ω





# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## ECU DIAGNOSIS INFORMATION

### AV CONTROL UNIT

#### Reference Value

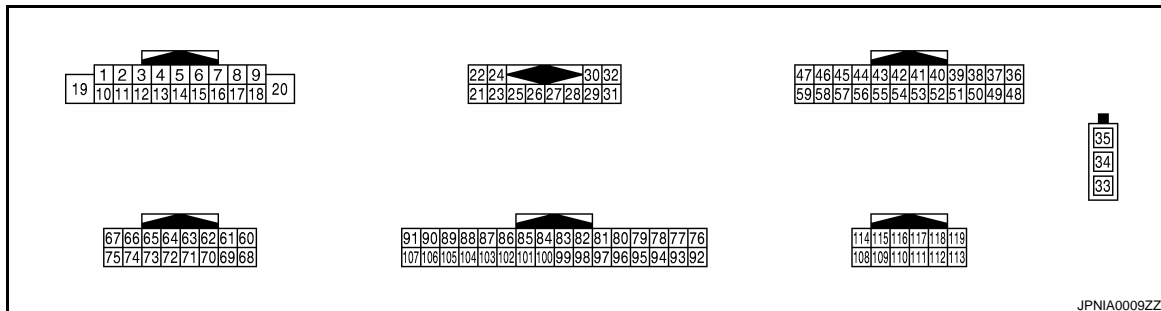
INFOID:000000004238624

#### VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

| Monitor Item | Condition           |   | Value/Status |
|--------------|---------------------|---|--------------|
| VHCL SPD SIG | Ignition switch ON  | Vehicle speed > 0 km/h (0 MPH)              | On           |
|              |                     | Vehicle speed = 0 km/h (0 MPH)              | Off          |
| PKB SIG      | Ignition switch ON  | Parking brake is applied.                   | On           |
|              |                     | Parking brake is released.                  | Off          |
| ILLUM SIG    | Ignition switch ON  | Light switch ON                             | On           |
|              |                     | Light switch OFF                            | Off          |
| IGN SIG      | Ignition switch ON  | —   | On           |
|              | Ignition switch ACC | —   | Off          |
| REV SIG      | Ignition switch ON  | Selector lever in R position                | On           |
|              |                     | Selector lever in any position other than R | Off          |

#### TERMINAL LAYOUT



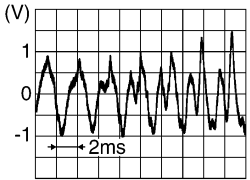
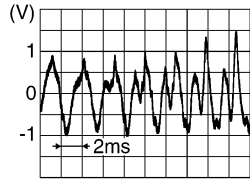
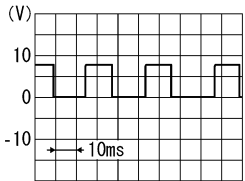
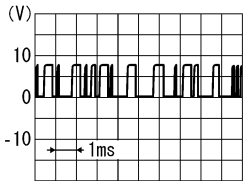
#### PHYSICAL VALUES

| Terminal (Wire color) |        | Description              |              | Condition                      | Reference value (Approx.)    |                 |
|-----------------------|--------|--------------------------|--------------|--------------------------------|------------------------------|-----------------|
| +                     | -      | Signal name              | Input/Output |                                |                              |                 |
| 6 (P)                 | 15 (B) | Steering switch signal A | Input        | Ignition switch ON             | Keep pressing SOURCE switch. | 0 V             |
|                       |        |                          |              | Keep pressing $\Delta$ switch. | 0.7 V                        |                 |
|                       |        |                          |              | Keep pressing $\nabla$ switch. | 1.3 V                        |                 |
|                       |        |                          |              | Keep pressing $\omega$ switch  | 2 V                          |                 |
|                       |        |                          |              | Except for above.              | 3.3 V                        |                 |
| 7 (V)                 | Ground | ACC power supply         | Input        | Ignition switch ACC            | —                            | Battery voltage |
| 9 (L)                 | Ground | Illumination signal      | Input        | Ignition switch OFF            | Lighting switch is OFF.      | 0 V             |
|                       |        |                          |              | Lighting switch is ON.         | 12 V                         |                 |

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

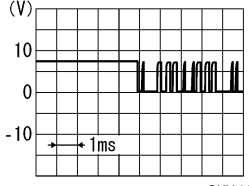
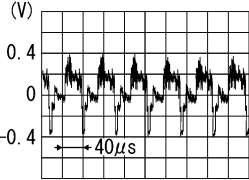
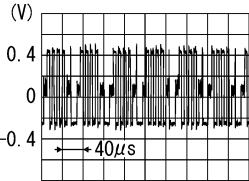
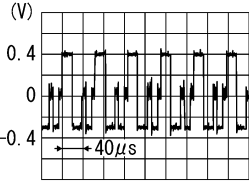
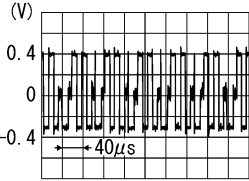
[BOSE AUDIO WITHOUT NAVIGATION]

| Terminal<br>(Wire color) |           | Description                        |                  | Condition                 |  | Reference value<br>(Approx.)  |
|--------------------------|-----------|------------------------------------|------------------|---------------------------|--|---|
| +                        | -         | Signal name                        | Input/<br>Output |                           |  |   |
| 15<br>(B)                | Ground    | Steering switch signal GND         | —                | Ignition<br>switch<br>ON  | —  | 0 V   |
| 16<br>(L)                | 15<br>(B) | Steering switch signal B           | Input            | Ignition<br>switch<br>ON  | Keep pressing VOL DOWN<br>switch.        | 0 V   |
|                          |           |                                    |                  |                           | Keep pressing VOL UP<br>switch.          | 0.7 V   |
|                          |           |                                    |                  |                           | Keep pressing  switch.                   | 1.3 V   |
|                          |           |                                    |                  |                           | Except for above.                        | 3.3 V   |
| 19<br>(Y)                | Ground    | Battery power supply               | Input            | Ignition<br>switch<br>OFF | —  | Battery voltage   |
| 20<br>(B)                | Ground    | GND                                | —                | Ignition<br>switch<br>ON  | —  | 0 V   |
| 22<br>(B)                | 21<br>(W) | Satellite radio sound signal<br>LH | Input            | Ignition<br>switch<br>ON  | When satellite radio mode<br>is selected | <br><small>SKIB3609E</small>  |
| 24<br>(G)                | 23<br>(R) | Satellite radio sound signal<br>RH | Input            | Ignition<br>switch<br>ON  | When satellite radio mode<br>is selected | <br><small>SKIB3609E</small> |
| 25                       | —         | Shield                             | —                | —                         | —  | —   |
| 26                       | —         | Shield                             | —                | —                         | —  | —   |
| 27<br>(SB)               | Ground    | Mode change signal                 | Output           | Ignition<br>switch<br>ON  | Driver's Audio Stage ON                  | 0 V   |
|                          |           |                                    |                  |                           | Driver's Audio Stage OFF                 | 8.5 V   |
| 28<br>(P)                | Ground    | Request signal<br>(SAT→CONT)       | Input            | Ignition<br>switch<br>ON  | When satellite radio mode<br>is selected | <br><small>SKIA9299J</small> |
| 29<br>(G)                | Ground    | Communication signal<br>(SAT→CONT) | Input            | Ignition<br>switch<br>ON  | When satellite radio mode<br>is selected | <br><small>SKIA9300J</small> |

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

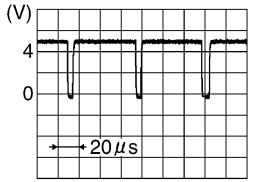
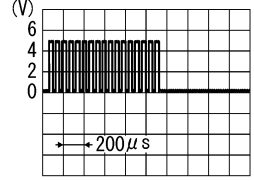
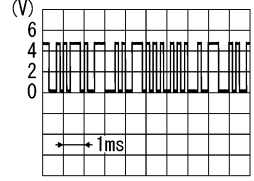
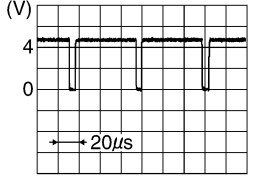
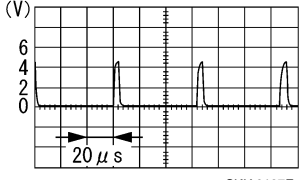
| Terminal<br>(Wire color) |        | Description                        |                  | Condition                 |  | Reference value<br>(Approx.)  |
|--------------------------|--------|------------------------------------|------------------|---------------------------|--|---|
| +                        | -      | Signal name                        | Input/<br>Output |                           |  |   |
| 30<br>(L)                | Ground | Communication signal<br>(CONT→SAT) | Output           | Ignition<br>switch<br>ON  | When satellite radio mode<br>is selected   |    |
| 33                       | —      | FM sub                             | Input            | —                         | —  | —   |
| 34                       | —      | AM-FM main                         | Input            | —                         | —  | —   |
| 35                       | Ground | Antenna amp. ON signal             | Output           | Ignition<br>switch<br>ACC | —  | 12 V  |
| 36<br>(SB)               | Ground | AUX image signal                   | Output           | Ignition<br>switch<br>ON  | At AUX image is displayed  |    |
| 37<br>(V)                | Ground | AUX image ground                   | —                | Ignition<br>switch<br>ON  | —  | 0 V   |
| 38<br>(P)                | Ground | RGB signal (B: blue)               | Output           | Ignition<br>switch<br>ON  | Start confirmation/adjust-<br>ment mode, and then dis-<br>play color bar by selecting<br>"Color Spectrum Bar" on<br>DISPLAY DIAGNOSIS<br>screen. |  |
| 39<br>(L)                | Ground | RGB signal (G: green)              | Output           | Ignition<br>switch<br>ON  | Start confirmation/adjust-<br>ment mode, and then dis-<br>play color bar by selecting<br>"Color Spectrum Bar" on<br>DISPLAY DIAGNOSIS<br>screen. |  |
| 40<br>(G)                | Ground | RGB signal (R: red)                | Output           | Ignition<br>switch<br>ON  | Start confirmation/adjust-<br>ment mode, and then dis-<br>play color bar by selecting<br>"Color Spectrum Bar" on<br>DISPLAY DIAGNOSIS<br>screen. |  |

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# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

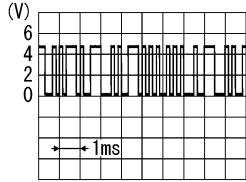
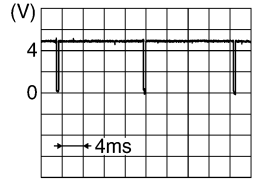
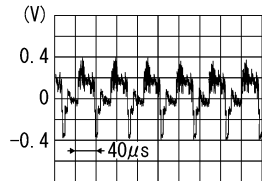
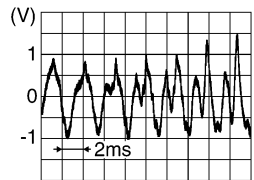
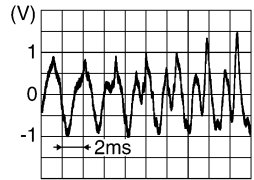
[BOSE AUDIO WITHOUT NAVIGATION]

| Terminal<br>(Wire color) |        | Description                             |                  | Condition                 |                                       | Reference value<br>(Approx.)  |
|--------------------------|--------|---|------------------|---------------------------|---------------------------------------|---|
| +                        | -      | Signal name                             | Input/<br>Output |                           |                                       |   |
| 41<br>(W)                | Ground | RGB synchronizing signal                | Output           | Ignition<br>switch<br>ON  | —                                     |  <p style="text-align: right; font-size: small;">SKIB3603E</p>   |
| 42                       | —      | Shield                                  | —                | —                         | —                                     | —   |
| 43<br>(B)                | Ground | RGB area (YS) signal                    | Output           | Ignition<br>switch<br>ON  | At RGB image displayed                | 5 V   |
|                          |        |   |                  |                           | At AUX image is displayed             |  <p style="text-align: right; font-size: small;">PKIB4948J</p>   |
| 44<br>(BR)               | Ground | Communication signal<br>(DISP→CONT)     | Input            | Ignition<br>switch<br>ON  | When adjusting display<br>brightness. |  <p style="text-align: right; font-size: small;">PKIB5039J</p>  |
| 45<br>(R)                | Ground | Horizontal synchronizing<br>(HP) signal | Input            | Ignition<br>switch<br>ON  | —                                     |  <p style="text-align: right; font-size: small;">SKIB3601E</p> |
| 46<br>(LG)               | Ground | Signal GND                              | —                | Ignition<br>switch<br>ON  | —                                     | 0 V   |
| 47<br>(O)                | Ground | Signal VCC                              | Output           | Ignition<br>switch<br>ACC | —                                     | 9 V   |
| 48<br>(BR)               | Ground | Composite synchronizing<br>signal       | Output           | Ignition<br>switch<br>ON  | —                                     |  <p style="text-align: right; font-size: small;">SKIA0187E</p> |
| 49                       | —      | Shield                                  | —                | —                         | —                                     | —   |
| 50                       | —      | Shield                                  | —                | —                         | —                                     | —   |
| 55                       | —      | Shield                                  | —                | —                         | —                                     | —   |

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

| Terminal<br>(Wire color) |           | Description                           |                  | Condition                 |   | Reference value<br>(Approx.)  |
|--------------------------|-----------|---------------------------------------|------------------|---------------------------|---|---|
| +                        | -         | Signal name                           | Input/<br>Output |                           |   |   |
| 56<br>(Y)                | Ground    | Communication signal<br>(CONT→DISP)   | Output           | Ignition<br>switch<br>ON  | When adjusting display<br>brightness.                 |  <p style="text-align: right; font-size: small;">PKIB5039J</p>   |
| 57<br>(G)                | Ground    | Vertical synchronizing (VP)<br>signal | Input            | Ignition<br>switch<br>ON  | —   |  <p style="text-align: right; font-size: small;">SKIB3598E</p>   |
| 58<br>(BR)               | Ground    | Inverter GND                          | —                | Ignition<br>switch<br>ON  | —   | 0 V   |
| 59<br>(Y)                | Ground    | Inverter VCC                          | Output           | Ignition<br>switch<br>ACC | —   | 9 V   |
| 66<br>(G)                | Ground    | AUX image signal                      | Input            | Ignition<br>switch<br>ON  | At AUX image is displayed                             |  <p style="text-align: right; font-size: small;">SKIB2251J</p> |
| 73                       | —         | Shield                                | —                | —                         | —   | —   |
| 74<br>(R)                | Ground    | AUX image signal GND                  | —                | Ignition<br>switch<br>ON  | —   | 0 V   |
| 80<br>(L)                | 79<br>(P) | TEL voice signal                      | Input            | Ignition<br>switch<br>ON  | During voice guide output<br>with the  switch pressed |  <p style="text-align: right; font-size: small;">SKIB3609E</p> |
| 81                       | —         | Shield                                | —                | —                         | —   | —   |
| 83<br>(B)                | 82<br>(G) | iPod sound signal RH                  | Input            | Ignition<br>switch<br>ON  | When iPod mode is select-<br>ed                       |  <p style="text-align: right; font-size: small;">SKIB3609E</p> |
| 84                       | —         | Shield                                | —                | —                         | —   | —   |

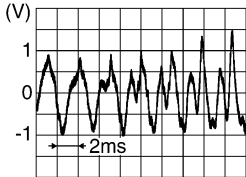
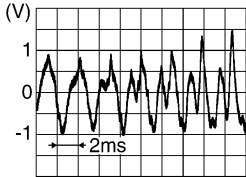
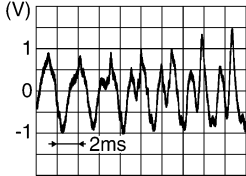
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# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

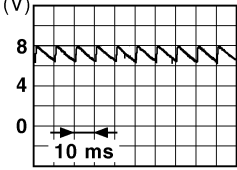
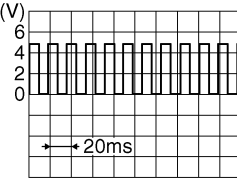
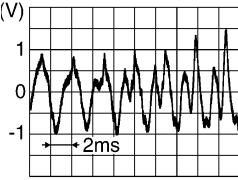
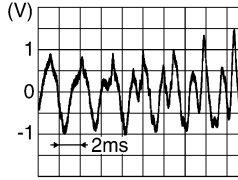
[BOSE AUDIO WITHOUT NAVIGATION]

| Terminal<br>(Wire color) |           | Description                      |                  | Condition                |                                 | Reference value<br>(Approx.)   |
|--------------------------|-----------|----------------------------------|------------------|--------------------------|---------------------------------|--|
| +                        | -         | Signal name                      | Input/<br>Output |                          |                                 |  |
| 85<br>(B)                | Ground    | GND                              | —                | Ignition<br>switch<br>ON | —                               | 0 V  |
| 86<br>(L)                | —         | CAN-H                            | Input/<br>Output | —                        | —                               | —  |
| 87<br>(P)                | —         | CAN-L                            | Input/<br>Output | —                        | —                               | —  |
| 88<br>(V)                | —         | AV communication signal<br>(H)   | Input/<br>Output | —                        | —                               | —  |
| 89<br>(LG)               | —         | AV communication signal<br>(L)   | Input/<br>Output | —                        | —                               | —  |
| 90<br>(SB)               | —         | AV communication signal<br>(H)   | Input/<br>Output | —                        | —                               | —  |
| 91<br>(Y)                | —         | AV communication signal<br>(L)   | Input/<br>Output | —                        | —                               | —  |
| 95<br>(R)                | Ground    | AUX sound signal RH              | Input            | Ignition<br>switch<br>ON | When AUX mode is select-<br>ed  | <br>SKIB3609E  |
| 96<br>(W)                | Ground    | AUX sound signal LH              | Input            | Ignition<br>switch<br>ON | When AUX mode is select-<br>ed  | <br>SKIB3609E |
| 97                       | —         | Shield (AUX sound signal<br>GND) | —                | —                        | —                               | —  |
| 99<br>(R)                | 98<br>(W) | iPod sound signal LH             | Input            | Ignition<br>switch<br>ON | When iPod mode is select-<br>ed | <br>SKIB3609E |
| 100                      | —         | Shield                           | —                | —                        | —                               | —  |
| 101<br>(BR)              | Ground    | SW GND                           | —                | Ignition<br>switch<br>ON | —                               | 0 V  |
| 103<br>(SB)              | Ground    | Eject signal                     | Input            | —                        | Pressing the eject switch       | 0 V  |
|                          |           |                                  |                  |                          | Except for above                | 3.3 V  |
| 104<br>(G)               | Ground    | Ignition signal                  | Input            | Ignition<br>switch<br>ON | —                               | Battery voltage  |

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

| Terminal<br>(Wire color) |            | Description                       |                  | Condition                |  | Reference value<br>(Approx.)   |
|--------------------------|------------|-----------------------------------|------------------|--------------------------|--|--|
| +                        | -          | Signal name                       | Input/<br>Output |                          |  |  |
| 105<br>(O)               | Ground     | Reverse signal                    | Input            | Ignition<br>switch<br>ON | R position                                     | 12 V   |
|                          |            |                                   |                  |                          | Other than R position                          | 0 V  |
| 106<br>(SB)              | Ground     | Parking brake signal              | Input            | Ignition<br>switch<br>ON | Parking brake ON                               | 0 V  |
|                          |            |                                   |                  |                          | Parking brake OFF                              |  <p style="text-align: right; font-size: small;">JSNIA0007GB</p>  |
| 107<br>(GR)              | Ground     | Vehicle speed signal<br>(8-pulse) | Input            | Ignition<br>switch<br>ON | When vehicle speed is approx. 40 km/h (25 MPH) | <p><b>NOTE:</b><br/>Maximum voltage may be 12 V due to specifications (connected units).</p>  <p style="text-align: right; font-size: small;">SKIA6649J</p> |
| 108<br>(BR)              | 114<br>(Y) | Sound signal rear RH              | Output           | Ignition<br>switch<br>ON | Voice output                                   |  <p style="text-align: right; font-size: small;">SKIB3609E</p>  |
| 109<br>(R)               | 115<br>(G) | Sound signal front RH             | Output           | Ignition<br>switch<br>ON | Voice output                                   |  <p style="text-align: right; font-size: small;">SKIB3609E</p>  |
| 110<br>(SB)              | Ground     | Amp. ON signal                    | Output           | Ignition<br>switch<br>ON | —  | 10 V   |
| 111                      | —          | Shield                            | —                | —                        | —  | —  |

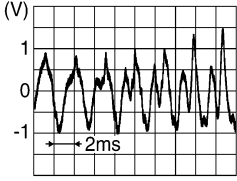
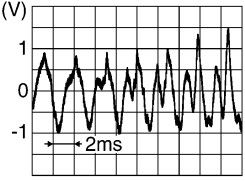
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# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

| Terminal<br>(Wire color) |             | Description           |                  | Condition                |              | Reference value<br>(Approx.)  |
|--------------------------|-------------|-----------------------|------------------|--------------------------|--------------|---|
| +                        | -           | Signal name           | Input/<br>Output |                          |              |   |
| 112<br>(V)               | 118<br>(LG) | Sound signal rear LH  | Output           | Ignition<br>switch<br>ON | Voice output |  <p style="text-align: right; font-size: small;">SKIB3609E</p> |
| 113<br>(O)               | 119<br>(W)  | Sound signal front LH | Output           | Ignition<br>switch<br>ON | Voice output |  <p style="text-align: right; font-size: small;">SKIB3609E</p> |

Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

INFOID:000000004238625

**NOTE:**

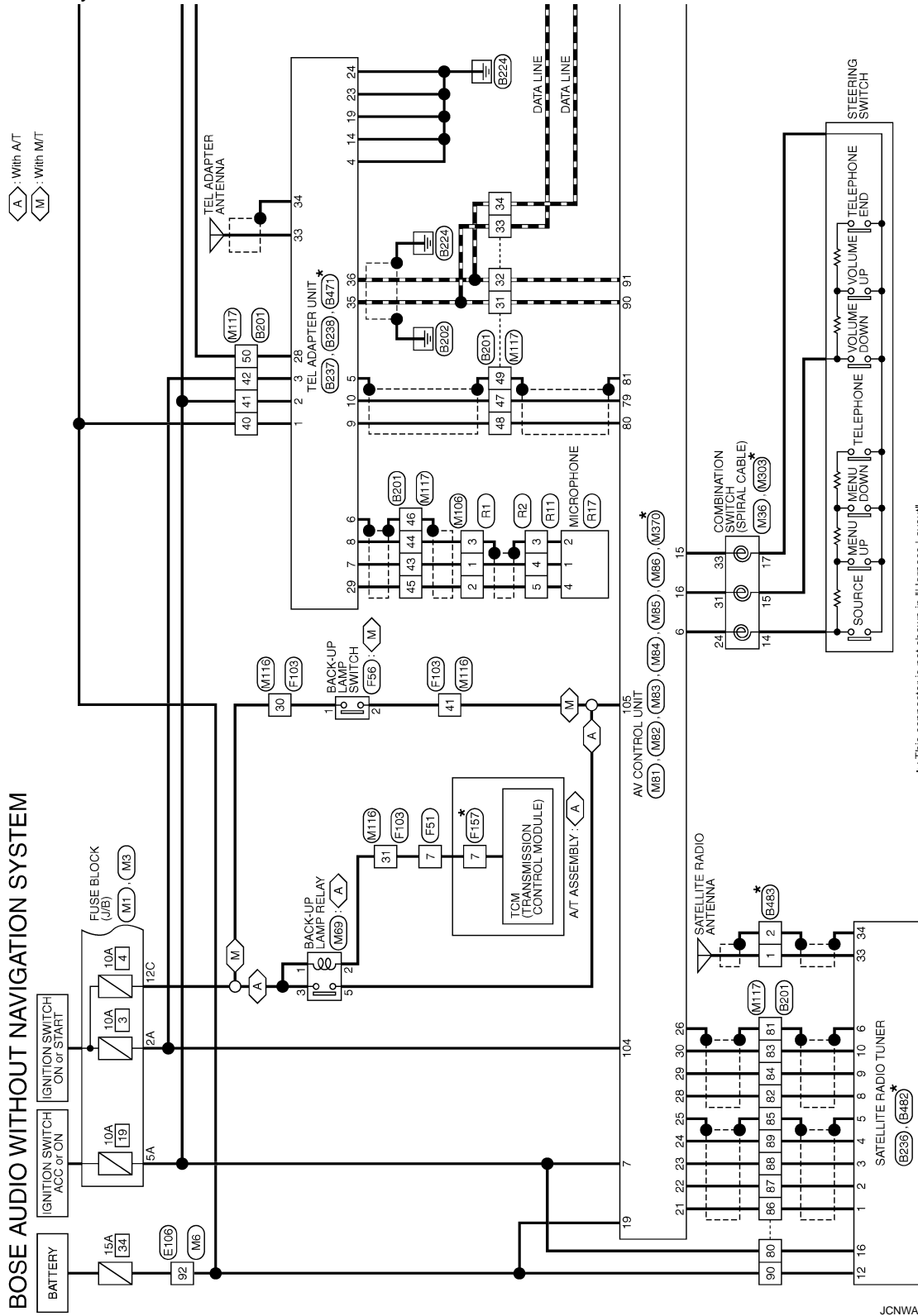


# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.



\*: This connector is not shown in "Harness Layout".

JCNWA1751GE

2008/08/07

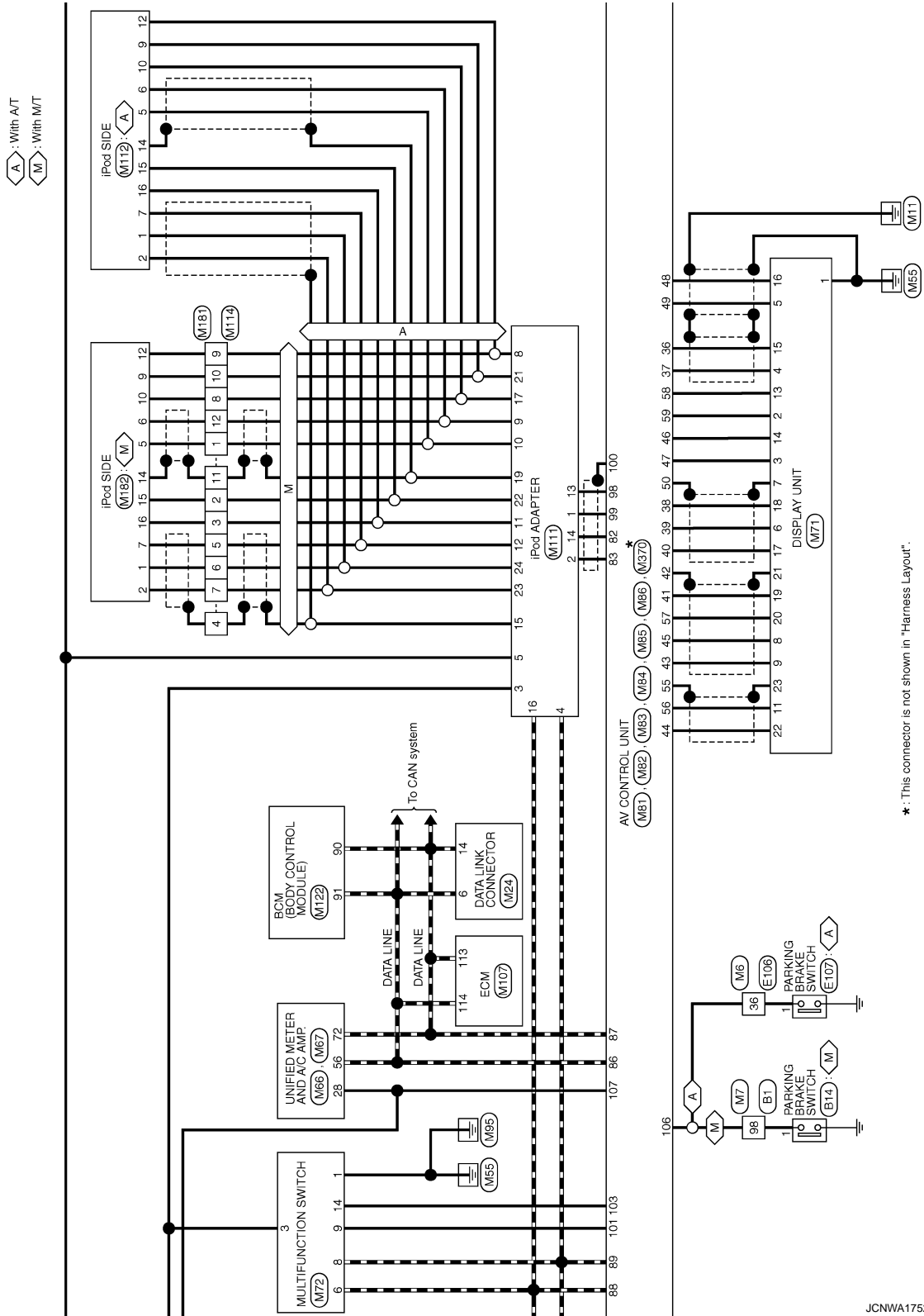
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# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

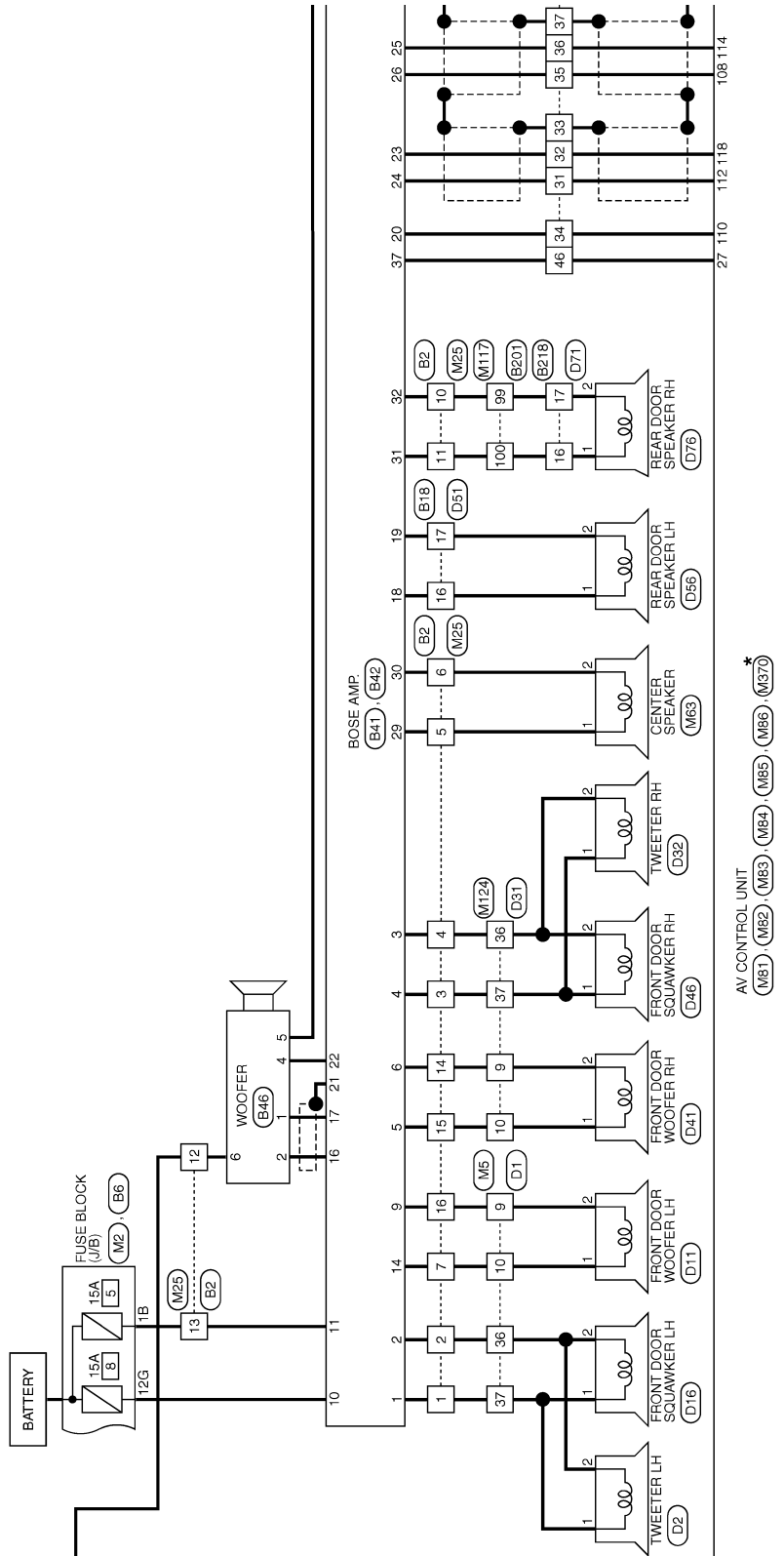


JCNWA1752GE

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]



\*: This connector is not shown in "Harness Layout".

JCNWA1753GE

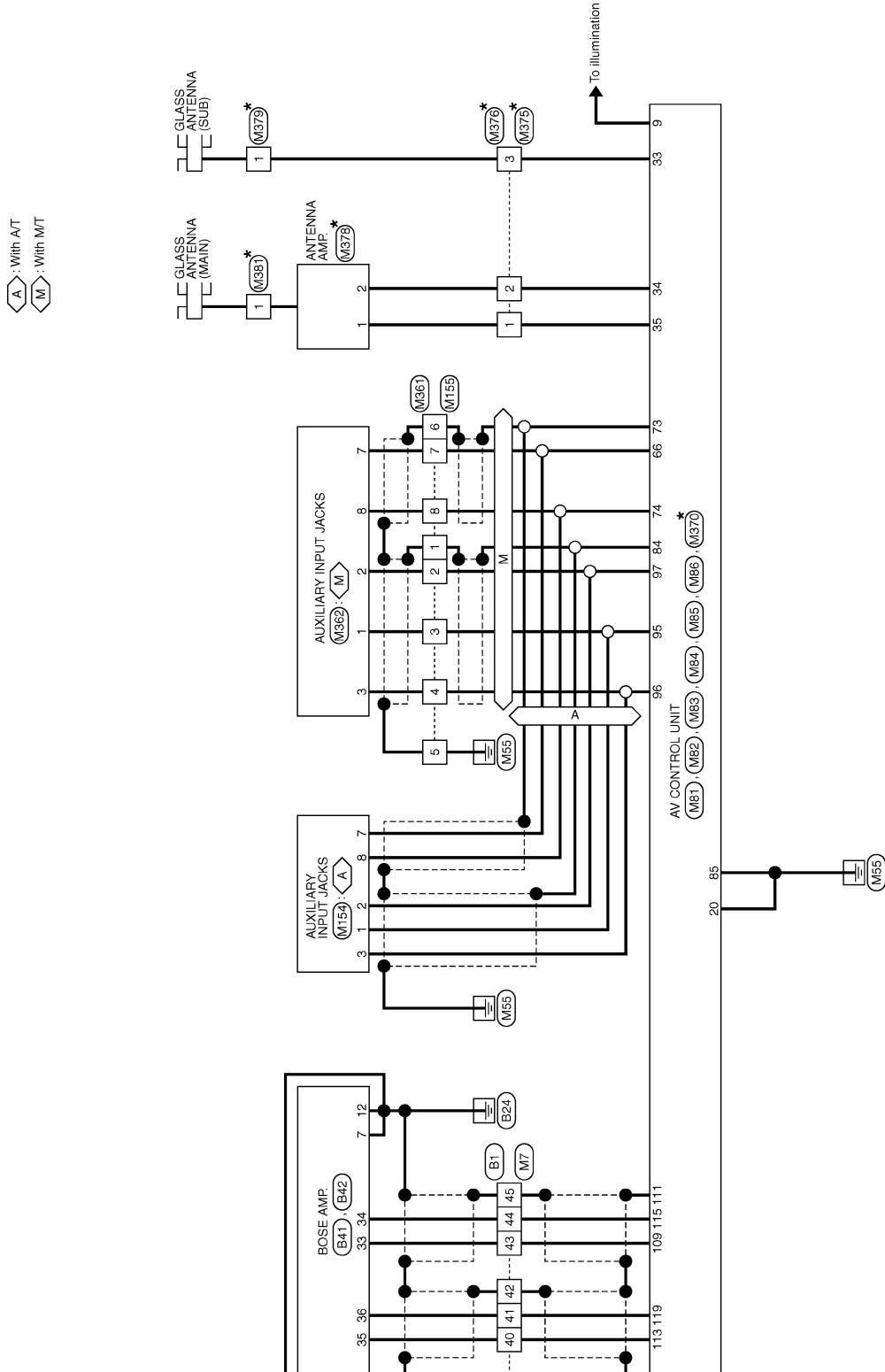
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# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]



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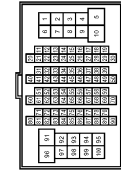
# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                 |
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| Connector No.  | B1              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH00FW-CS16-TM4 |

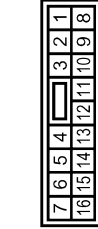


| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | V             | -                           |
| 32           | SB            | -                           |
| 33           | SHIELD        | -                           |
| 34           | W             | -                           |
| 35           | BR            | -                           |
| 36           | Y             | -                           |
| 37           | SHIELD        | -                           |
| 40           | P             | -                           |
| 41           | L             | -                           |
| 42           | SHIELD        | -                           |
| 43           | R             | -                           |

|    |        |   |
|----|--------|---|
| 44 | G      | - |
| 45 | SHIELD | - |
| 46 | SB     | - |
| 98 | V      | - |



|                |              |
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| Connector No.  | B2           |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16FW-CS    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | V             | -                           |
| 4            | LG            | -                           |
| 5            | L             | -                           |
| 6            | O             | -                           |
| 7            | B             | -                           |
| 10           | Y             | -                           |
| 11           | LG            | -                           |
| 12           | P             | -                           |
| 13           | GR            | -                           |

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| Connector No.  | B6               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | MS12FB-CS        |



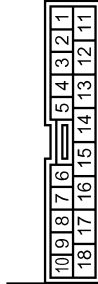
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| Connector No.  | B14                             |
| Connector Name | PARKING BRAKE SWITCH (WITH M/T) |
| Connector Type | P01FB-A                         |



|              |     |   |   |
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| Terminal No. | 12G | Y | - |
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|              |   |   |   |
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| Terminal No. | 1 | V | - |
|--------------|---|---|---|

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| Connector No.  | B18          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TR10FW-NS8   |



|              |    |   |   |
|--------------|----|---|---|
| Terminal No. | 16 | L | - |
| Terminal No. | 17 | P | - |

|    |   |   |
|----|---|---|
| 14 | R | - |
| 15 | G | - |
| 16 | W | - |

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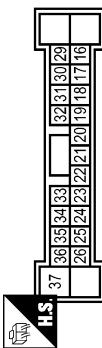
# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |               |
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| Connector No.  | B41           |
| Connector Name | BOSE AMP.     |
| Connector Type | SCA19FBR-SG44 |



| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 16           | SB            | SOUND SIGNAL WOOFER (-)       |
| 17           | V             | SOUND SIGNAL WOOFER (-)       |
| 18           | L             | SOUND SIGNAL REAR DOOR LH (+) |
| 19           | P             | SOUND SIGNAL REAR DOOR LH (-) |
| 20           | W             | AMP. ON SIGNAL                |
| 21           | SHIELD        | SHIELD                        |
| 22           | GR            | WOOFER AMP. ON SIGNAL         |
| 23           | SB            | SOUND SIGNAL REAR LH (-)      |
| 24           | V             | SOUND SIGNAL REAR LH (+)      |
| 25           | Y             | SOUND SIGNAL REAR RH (-)      |
| 26           | BR            | SOUND SIGNAL REAR RH (+)      |

|                |            |
|----------------|------------|
| Connector No.  | B46        |
| Connector Name | WOOFER     |
| Connector Type | MS08FBR-CS |



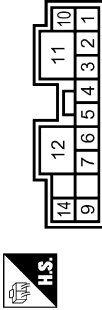
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | V             | SOUND SIGNAL WOOFER (-)     |
| 2            | SB            | SOUND SIGNAL WOOFER (+)     |
| 4            | GR            | WOOFER AMP. ON SIGNAL       |
| 5            | B             | GND                         |
| 6            | P             | BATTERY                     |

|    |    |                               |
|----|----|-------------------------------|
| 29 | L  | SOUND SIGNAL CENTER (+)       |
| 30 | O  | SOUND SIGNAL CENTER (-)       |
| 31 | LG | SOUND SIGNAL REAR DOOR RH (+) |
| 32 | Y  | SOUND SIGNAL REAR DOOR RH (-) |
| 33 | R  | SOUND SIGNAL FRONT RH (+)     |
| 34 | G  | SOUND SIGNAL FRONT RH (-)     |
| 35 | P  | SOUND SIGNAL FRONT LH (+)     |
| 36 | L  | SOUND SIGNAL FRONT LH (-)     |
| 37 | SB | MODE CHANGE SIGNAL            |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | FRONT DOOR SQUAWKER LH (+)  |
| 2            | W             | FRONT DOOR SQUAWKER LH (-)  |
| 3            | LG            | FRONT DOOR SQUAWKER RH (-)  |
| 4            | V             | FRONT DOOR SQUAWKER RH (+)  |
| 5            | G             | FRONT DOOR WOOFER RH (+)    |
| 6            | R             | FRONT DOOR WOOFER RH (-)    |
| 7            | B             | GND                         |
| 9            | Y             | FRONT DOOR WOOFER LH (-)    |
| 10           | W             | BATTERY                     |
| 11           | GR            | BATTERY                     |
| 12           | B             | GND                         |

|     |        |   |
|-----|--------|---|
| 47  | G      | - |
| 48  | Y      | - |
| 49  | SHIELD | - |
| 50  | P      | - |
| 80  | O      | - |
| 81  | SHIELD | - |
| 82  | G      | - |
| 83  | P      | - |
| 84  | L      | - |
| 85  | SHIELD | - |
| 86  | G      | - |
| 87  | R      | - |
| 88  | W      | - |
| 89  | B      | - |
| 90  | Y      | - |
| 99  | P      | - |
| 100 | L      | - |

|                |               |
|----------------|---------------|
| Connector No.  | B42           |
| Connector Name | BOSE AMP.     |
| Connector Type | SCA12FBR-SJA2 |



|                |              |
|----------------|--------------|
| Connector No.  | B218         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10PW-NSS   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | L             | -                           |
| 17           | P             | -                           |

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# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                       |
|----------------|-----------------------|
| Connector No.  | B236                  |
| Connector Name | SATELLITE RADIO TUNER |
| Connector Type | TA6FW                 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | G             | SOUND SIGNAL LH (-)         |
| 2            | R             | SOUND SIGNAL LH (+)         |
| 3            | W             | SOUND SIGNAL RH (-)         |
| 4            | B             | SOUND SIGNAL RH (+)         |
| 5            | SHIELD        | SHIELD                      |
| 6            | SHIELD        | SHIELD                      |
| 8            | G             | REQUEST (SAT->CONT)         |
| 9            | L             | COMM (SAT->CONT)            |
| 10           | P             | COMM (CONT->SAT)            |
| 12           | Y             | BATTERY                     |
| 16           | O             | ACC                         |

|                |                  |
|----------------|------------------|
| Connector No.  | B471             |
| Connector Name | TEL ADAPTER UNIT |
| Connector Type | GT16C-IS-HU      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | TEL ANTENNA                 |
| 34           | SHIELD        | SHIELD                      |

|                |                  |
|----------------|------------------|
| Connector No.  | B237             |
| Connector Name | TEL ADAPTER UNIT |
| Connector Type | TH22FW-NH        |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | V             | BATTERY                     |
| 2            | LG            | ACC                         |
| 3            | W             | IGNITION                    |
| 4            | B             | GND                         |
| 5            | SHIELD        | SHIELD                      |
| 6            | SHIELD        | SHIELD                      |
| 7            | BR            | MICROPHONE SIGNAL           |
| 8            | O             | MICROPHONE GND              |
| 9            | Y             | TEL VOICE SIGNAL (+)        |
| 10           | G             | TEL VOICE SIGNAL (-)        |
| 14           | B             | GND                         |

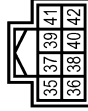
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| Connector No.  | B482                  |
| Connector Name | SATELLITE RADIO TUNER |
| Connector Type | -                     |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | SATELLITE ANTENNA           |
| 34           | SHIELD        | SHIELD                      |

|    |   |                         |
|----|---|-------------------------|
| 19 | B | GND                     |
| 23 | B | CONTROL SIGNAL          |
| 24 | B | CONTROL SIGNAL          |
| 28 | P | VEHICLE SPEED (8-PULSE) |
| 29 | Y | MICROPHONE VCC          |

|                |                  |
|----------------|------------------|
| Connector No.  | B238             |
| Connector Name | TEL ADAPTER UNIT |
| Connector Type | TH48FW-NH        |



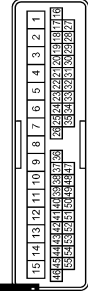
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 35           | L             | AV COMM (H)                 |
| 36           | P             | AV COMM (L)                 |

|                |                         |
|----------------|-------------------------|
| Connector No.  | B483                    |
| Connector Name | SATELLITE RADIO ANTENNA |
| Connector Type | GT16-IPP-HU             |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | SATELLITE ANTENNA           |
| 2            | SHIELD        | SHIELD                      |

|                |              |
|----------------|--------------|
| Connector No.  | D1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH48FW-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 36           | W             | -                           |
| 37           | L             | -                           |

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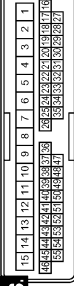







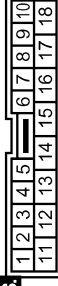
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# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                      |  |                               |   |   |              |               |                             |
|----------------------|--|-------------------------------|---|---|--------------|---------------|-----------------------------|
| Connector No.<br>D2  | Connector Name<br>TWEETER LH             | Connector Type<br>TK02MBR-P   |  |  | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 1            | L             | -                           |
|                      |  |                               |   |   | 2            | W             | -                           |
| Connector No.<br>D11 | Connector Name<br>FRONT DOOR WOOFER LH   | Connector Type<br>NS02FW-CS   |  |  | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 1            | G             | -                           |
|                      |  |                               |   |   | 2            | R             | -                           |
| Connector No.<br>D16 | Connector Name<br>FRONT DOOR SQUAWKER LH | Connector Type<br>TK02FBR     |    |    | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 1            | L             | -                           |
|                      |  |                               |   |   | 2            | W             | -                           |
| Connector No.<br>D31 | Connector Name<br>WIRE TO WIRE           | Connector Type<br>TH40FY-CS/5 |    |    | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 9            | R             | -                           |
|                      |  |                               |   |   | 10           | G             | -                           |
|                      |  |                               |   |   | 36           | W             | -                           |
|                      |  |                               |   |   | 37           | L             | -                           |
| Connector No.<br>D32 | Connector Name<br>TWEETER RH             | Connector Type<br>TK02MBR-P   |  |  | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 1            | L             | -                           |
|                      |  |                               |   |   | 2            | W             | -                           |
| Connector No.<br>D41 | Connector Name<br>FRONT DOOR WOOFER RH   | Connector Type<br>NS02FW-CS   |  |  | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 1            | G             | -                           |
|                      |  |                               |   |   | 2            | R             | -                           |
| Connector No.<br>D46 | Connector Name<br>FRONT DOOR SQUAWKER RH | Connector Type<br>TK02FBR     |    |    | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 1            | L             | -                           |
|                      |  |                               |   |   | 2            | W             | -                           |
| Connector No.<br>D51 | Connector Name<br>WIRE TO WIRE           | Connector Type<br>TK10MP-NS   |    |    | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 16           | LG            | -                           |
|                      |  |                               |   |   | 17           | Y             | -                           |

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# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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|----------------|----------------------|
| Connector No.  | D56                  |
| Connector Name | REAR DOOR SPEAKER LH |
| Connector Type | NS02FBR-CS           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | LG            | -                           |
| 2            | Y             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D71          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MW-NS    |



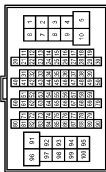
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | L             | -                           |
| 17           | P             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | D76                  |
| Connector Name | REAR DOOR SPEAKER RH |
| Connector Type | NS02FBR-CS           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | P             | -                           |

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| Connector No.  | E106            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH80FW-CS/6-TM4 |



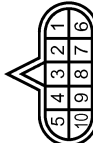
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | O             | -                           |
| 92           | LG            | -                           |

|                |                                 |
|----------------|---------------------------------|
| Connector No.  | E107                            |
| Connector Name | PARKING BRAKE SWITCH (WITH A/T) |
| Connector Type | TB01FW                          |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | O             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | F51          |
| Connector Name | A/T ASSEMBLY |
| Connector Type | RK10FG-DGY   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 7            | R             | -                           |

|                |                     |
|----------------|---------------------|
| Connector No.  | F56                 |
| Connector Name | BACK-UP LAMP SWITCH |
| Connector Type | RK02FB              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | O             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | F103         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK38FW-NS10  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 30           | R             | -                           |
| 31           | R             | -                           |
| 41           | O             | -                           |

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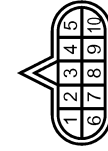
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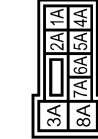
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|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | F157                              |
| Connector Name | TOM (TRANSMISSION CONTROL MODULE) |
| Connector Type | SPT0FG                            |



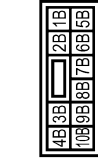
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| Terminal No.                | 7            |
| Color of Wire               | L            |
| Signal Name [Specification] | REV LAMP RLY |

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|----------------|------------------|
| Connector No.  | M1               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS08FW-M2        |



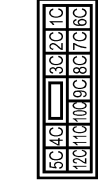
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| Terminal No.                | 2A |
| Color of Wire               | G  |
| Signal Name [Specification] |    |
| Terminal No.                | 5A |
| Color of Wire               | L  |
| Signal Name [Specification] |    |

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|----------------|------------------|
| Connector No.  | M2               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FW-CS        |



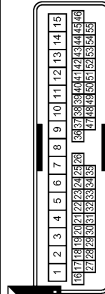
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| Terminal No.                | 1B |
| Color of Wire               | SB |
| Signal Name [Specification] |    |

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| Connector No.  | M3               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS        |



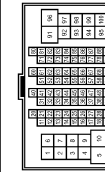
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|-----------------------------|-----|
| Terminal No.                | 12C |
| Color of Wire               | R   |
| Signal Name [Specification] |     |

|                |              |
|----------------|--------------|
| Connector No.  | M5           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15  |



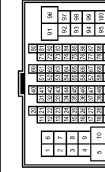
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|-----------------------------|----|
| Terminal No.                | 9  |
| Color of Wire               | W  |
| Signal Name [Specification] |    |
| Terminal No.                | 10 |
| Color of Wire               | B  |
| Signal Name [Specification] |    |
| Terminal No.                | 36 |
| Color of Wire               | W  |
| Signal Name [Specification] |    |
| Terminal No.                | 37 |
| Color of Wire               | L  |
| Signal Name [Specification] |    |

|                |                 |
|----------------|-----------------|
| Connector No.  | M6              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH60MW-CS16-TM4 |



|                             |    |
|-----------------------------|----|
| Terminal No.                | 36 |
| Color of Wire               | O  |
| Signal Name [Specification] |    |
| Terminal No.                | 92 |
| Color of Wire               | Y  |
| Signal Name [Specification] |    |

|                |                 |
|----------------|-----------------|
| Connector No.  | M7              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH60MW-CS16-TM4 |



|                             |        |
|-----------------------------|--------|
| Terminal No.                | 31     |
| Color of Wire               | V      |
| Signal Name [Specification] |        |
| Terminal No.                | 32     |
| Color of Wire               | LG     |
| Signal Name [Specification] |        |
| Terminal No.                | 33     |
| Color of Wire               | SHIELD |
| Signal Name [Specification] |        |
| Terminal No.                | 34     |
| Color of Wire               | SB     |
| Signal Name [Specification] |        |
| Terminal No.                | 35     |
| Color of Wire               | BR     |
| Signal Name [Specification] |        |
| Terminal No.                | 36     |
| Color of Wire               | Y      |
| Signal Name [Specification] |        |
| Terminal No.                | 37     |
| Color of Wire               | SHIELD |
| Signal Name [Specification] |        |
| Terminal No.                | 40     |
| Color of Wire               | O      |
| Signal Name [Specification] |        |
| Terminal No.                | 41     |
| Color of Wire               | W      |
| Signal Name [Specification] |        |
| Terminal No.                | 42     |
| Color of Wire               | SHIELD |
| Signal Name [Specification] |        |
| Terminal No.                | 43     |
| Color of Wire               | R      |
| Signal Name [Specification] |        |

|                             |        |
|-----------------------------|--------|
| Terminal No.                | 44     |
| Color of Wire               | G      |
| Signal Name [Specification] |        |
| Terminal No.                | 45     |
| Color of Wire               | SHIELD |
| Signal Name [Specification] |        |
| Terminal No.                | 46     |
| Color of Wire               | SB     |
| Signal Name [Specification] |        |
| Terminal No.                | 98     |
| Color of Wire               | O      |
| Signal Name [Specification] |        |

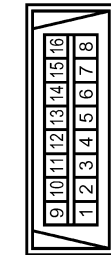
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[BOSE AUDIO WITHOUT NAVIGATION]

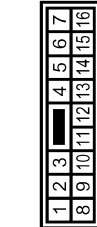
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                     |
|----------------|---------------------|
| Connector No.  | M24                 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW-P            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6            | L             | -                           |
| 14           | P             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M25          |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MW-CS    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | BR            | -                           |
| 4            | R             | -                           |
| 5            | L             | -                           |
| 6            | LG            | -                           |
| 7            | B             | -                           |
| 10           | P             | -                           |
| 11           | L             | -                           |
| 12           | Y             | -                           |
| 13           | SB            | -                           |

|    |   |   |
|----|---|---|
| 14 | R | - |
| 15 | G | - |
| 16 | W | - |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M38                               |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY-TV                        |



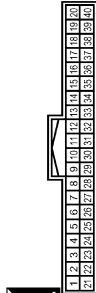
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24           | P             | -                           |
| 31           | L             | -                           |
| 33           | B             | -                           |

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| Connector No.  | M63            |
| Connector Name | CENTER SPEAKER |
| Connector Type | TK02FBR        |



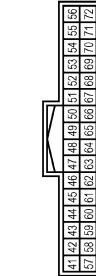
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | LG            | -                           |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M66                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH                  |



| Terminal No. | Color of Wire | Signal Name [Specification]    |
|--------------|---------------|--------------------------------|
| 28           | R             | VEHICLE SPEED SIGNAL (8-PULSE) |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M67                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH32FW-NH                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56           | L             | CAN-H                       |
| 72           | P             | CAN-L                       |

|                |                    |
|----------------|--------------------|
| Connector No.  | M69                |
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | MS02FL-M2-LC       |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | W             | -                           |
| 3            | LG            | -                           |
| 5            | O             | -                           |

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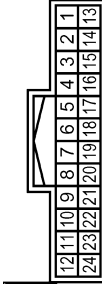
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[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M71                         |
| Connector Name | DISPLAY UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 2            | Y             | INVERTER VCC                |
| 3            | O             | SIGNAL VCC                  |
| 4            | V             | AUX IMAGE GND               |
| 5            | Y             | SHIELD                      |
| 6            | L             | RGB (G.GREEN) SIGNAL        |
| 7            | SHIELD        | SHIELD                      |
| 8            | R             | HP                          |
| 9            | B             | RGB AREA (YS) SIGNAL        |
| 11           | Y             | COMM (CONT->DISP)           |
| 13           | BR            | INVERTER GND                |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M82                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | A12FW                          |



| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 21           | W             | SATELLITE SOUND SIGNAL LH (C) |
| 22           | B             | SATELLITE SOUND SIGNAL LH (C) |
| 23           | R             | SATELLITE SOUND SIGNAL RH (C) |
| 24           | G             | SATELLITE SOUND SIGNAL RH (C) |
| 25           | SHIELD        | SHIELD                        |
| 26           | SHIELD        | SHIELD                        |
| 27           | SB            | MODE CHANGE SIGNAL            |
| 28           | P             | REQUEST (SAT->CONT)           |
| 29           | B             | COMM (SAT->CONT)              |
| 30           | L             | COMM (CONT->SAT)              |

|    |        |                     |
|----|--------|---------------------|
| 14 | LG     | SIGNAL GND          |
| 15 | SR     | AUX IMAGE SIGNAL    |
| 16 | BR     | COMP SYNC           |
| 17 | G      | RGB (R.RED) SIGNAL  |
| 18 | P      | RGB (B.BLUE) SIGNAL |
| 19 | W      | RGB SYNC            |
| 20 | G      | VP                  |
| 21 | SHIELD | SHIELD              |
| 22 | BR     | COMM (DISP->CONT)   |
| 23 | SHIELD | SHIELD              |

|                |                      |
|----------------|----------------------|
| Connector No.  | M72                  |
| Connector Name | MULTIFUNCTION SWITCH |
| Connector Type | TH16FW-NH            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 3            | L             | ACC                         |
| 6            | G             | AV COMM (H)                 |
| 8            | R             | AV COMM (L)                 |
| 9            | BR            | SW GND                      |
| 14           | SB            | EJECT SIGNAL                |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M83                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | SB            | AUX IMAGE SIGNAL            |
| 37           | V             | AUX IMAGE GND               |
| 38           | P             | RGB (B.BLUE) SIGNAL         |
| 39           | L             | RGB (G.GREEN) SIGNAL        |
| 40           | G             | RGB (R.RED) SIGNAL          |
| 41           | W             | RGB SYNC                    |
| 42           | SHIELD        | SHIELD                      |
| 43           | B             | RGB AREA (YS) SIGNAL        |
| 44           | BR            | COMM (DISP->CONT)           |
| 45           | R             | HP                          |
| 46           | LG            | SIGNAL GND                  |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M81                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH16FW-CS2                     |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6            | P             | STRG SW A                   |
| 7            | V             | ACC                         |
| 9            | L             | ILLUMINATION                |
| 15           | B             | STRG SW GND                 |
| 16           | L             | STRG SW B                   |
| 19           | Y             | BATTERY                     |
| 20           | B             | GND                         |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M84                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH16FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 66           | G             | AUX IMAGE SIGNAL            |
| 73           | SHIELD        | SHIELD                      |
| 74           | R             | AUX IMAGE GND               |

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M85                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH22FW-NH                      |

|                             |                      |                      |        |                          |                          |        |     |       |       |                                |                                |
|-----------------------------|----------------------|----------------------|--------|--------------------------|--------------------------|--------|-----|-------|-------|--------------------------------|--------------------------------|
| Terminal No.                | 79                   | 80                   | 81     | 82                       | 83                       | 84     | 85  | 86    | 87    | 88                             | 89                             |
| Color of Wire               | P                    | L                    | SHIELD | G                        | B                        | B      | B   | L     | P     | V                              | LG                             |
| Signal Name [Specification] | TEL VOICE SIGNAL (-) | TEL VOICE SIGNAL (+) | SHIELD | iPod SOUND SIGNAL RH (-) | iPod SOUND SIGNAL RH (+) | SHIELD | GND | CAN-H | CAN-L | AV COMM (H) [With BOSE system] | AV COMM (L) [With BOSE system] |



|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

|     |        |                          |
|-----|--------|--------------------------|
| 90  | SB     | AV COMM (H)              |
| 91  | Y      | AV COMM (L)              |
| 95  | P      | AUX SOUND SIGNAL RH (+)  |
| 96  | W      | AUX SOUND SIGNAL LH (+)  |
| 97  | B      | SHIELD                   |
| 98  | W      | iPod SOUND SIGNAL LH (+) |
| 99  | R      | iPod SOUND SIGNAL LH (-) |
| 100 | SHIELD | SHIELD                   |
| 101 | BR     | SW GND                   |
| 103 | SB     | EJECT SIGNAL             |
| 104 | G      | IGNITION                 |
| 105 | O      | REVERSE                  |
| 106 | SB     | PARKING BRAKE            |
| 107 | GR     | VEHICLE SPEED (8-PULSE)  |



|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M86                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH12FW-NH                      |

|                             |                          |                           |               |        |                          |                           |                          |                           |                          |                           |
|-----------------------------|--------------------------|---------------------------|---------------|--------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|---------------------------|
| Terminal No.                | 108                      | 109                       | 110           | 111    | 112                      | 113                       | 114                      | 115                       | 118                      | 119                       |
| Color of Wire               | BR                       | R                         | SB            | B      | V                        | O                         | Y                        | G                         | LG                       | W                         |
| Signal Name [Specification] | SOUND SIGNAL REAR RH (+) | SOUND SIGNAL FRONT RH (+) | AMP_ON SIGNAL | SHIELD | SOUND SIGNAL REAR LH (+) | SOUND SIGNAL FRONT LH (+) | SOUND SIGNAL REAR RH (-) | SOUND SIGNAL FRONT RH (-) | SOUND SIGNAL REAR LH (-) | SOUND SIGNAL FRONT LH (-) |



|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

|                |              |
|----------------|--------------|
| Connector No.  | M106         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MPF-N5S  |

|                             |                              |                              |                              |
|-----------------------------|------------------------------|------------------------------|------------------------------|
| Terminal No.                | 1                            | 2                            | 3                            |
| Color of Wire               | B                            | W                            | R                            |
| Signal Name [Specification] | - [Without rear view camera] | - [Without rear view camera] | - [Without rear view camera] |



|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|

|                |                   |
|----------------|-------------------|
| Connector No.  | M107              |
| Connector Name | ECM               |
| Connector Type | RH24GY-R28-R-LH-Z |

|              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|
| Terminal No. | 128 | 124 | 121 | 118 | 117 | 116 | 115 | 114 | 113 | 112 | 111 | 110 | 109 | 108 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 94 | 93 | 92 |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|



|                |              |
|----------------|--------------|
| Connector No.  | M111         |
| Connector Name | iPod ADAPTER |
| Connector Type | TH24FW-NH    |

|                             |                          |                          |     |             |         |              |                   |                           |                    |                          |                          |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------------------|--------------------------|--------------------------|-----|-------------|---------|--------------|-------------------|---------------------------|--------------------|--------------------------|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Terminal No.                | 1                        | 2                        | 3   | 4           | 5       | 6            | 7                 | 8                         | 9                  | 10                       | 11                       | 12     | 13     | 14     | 15     | 16     | 17     | 18     | 19     | 20     | 21     | 22     | 23     | 24     |
| Color of Wire               | R                        | B                        | V   | R           | Y       | W            | P                 | L                         | O                  | W                        | W                        | W      | B      | G      | B      | B      | G      | R      | B      | B      | B      | B      | B      | B      |
| Signal Name [Specification] | iPod SOUND SIGNAL LH (+) | iPod SOUND SIGNAL LH (-) | ACC | AV COMM (L) | BATTERY | CHARGE POWER | COMM (iPod->iPod) | COMM (iPod->iPod ADAPTER) | ACCESSORY IDENTITY | iPod SOUND SIGNAL RH (+) | iPod SOUND SIGNAL RH (-) | SHIELD | SHIELD | SHIELD | SHIELD | SHIELD | SHIELD | SHIELD | SHIELD | SHIELD | SHIELD | SHIELD | SHIELD | SHIELD |



|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

|                             |                          |        |             |        |        |                             |                  |                       |                          |
|-----------------------------|--------------------------|--------|-------------|--------|--------|-----------------------------|------------------|-----------------------|--------------------------|
| Terminal No.                | 14                       | 15     | 16          | 17     | 19     | 21                          | 22               | 23                    | 24                       |
| Color of Wire               | G                        | SHIELD | G           | BR     | SHIELD | W                           | G                | R                     | B                        |
| Signal Name [Specification] | iPod SOUND SIGNAL RH (-) | SHIELD | AV COMM (H) | SHIELD | SHIELD | iPod CONNECTION RECOGNITION | ACCESSORY DETECT | iPod SOUND SIGNAL GND | iPod SOUND SIGNAL LH (+) |

|                |                      |
|----------------|----------------------|
| Connector No.  | M112                 |
| Connector Name | iPod SIDE (WITH A/T) |
| Connector Type | IP16FGY              |



|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|

|                             |           |           |
|-----------------------------|-----------|-----------|
| Terminal No.                | 113       | 114       |
| Color of Wire               | P         | L         |
| Signal Name [Specification] | VEHCAN-L1 | VEHCAN-H1 |

|                             |                          |                          |     |             |         |              |                   |                           |                    |                          |
|-----------------------------|--------------------------|--------------------------|-----|-------------|---------|--------------|-------------------|---------------------------|--------------------|--------------------------|
| Terminal No.                | 1                        | 2                        | 3   | 4           | 5       | 8            | 10                | 11                        | 12                 | 13                       |
| Color of Wire               | R                        | B                        | V   | R           | Y       | W            | P                 | L                         | O                  | W                        |
| Signal Name [Specification] | iPod SOUND SIGNAL LH (+) | iPod SOUND SIGNAL LH (-) | ACC | AV COMM (L) | BATTERY | CHARGE POWER | COMM (iPod->iPod) | COMM (iPod->iPod ADAPTER) | ACCESSORY IDENTITY | iPod SOUND SIGNAL RH (+) |

|                             |                          |                       |                           |                   |                          |                             |     |              |        |                  |                    |
|-----------------------------|--------------------------|-----------------------|---------------------------|-------------------|--------------------------|-----------------------------|-----|--------------|--------|------------------|--------------------|
| Terminal No.                | 1                        | 2                     | 5                         | 6                 | 7                        | 9                           | 10  | 12           | 14     | 15               | 16                 |
| Color of Wire               | B                        | R                     | L                         | P                 | W                        | W                           | BR  | W            | SHIELD | G                | O                  |
| Signal Name [Specification] | iPod SOUND SIGNAL LH (+) | iPod SOUND SIGNAL GND | COMM (iPod->iPod ADAPTER) | COMM (iPod->iPod) | iPod SOUND SIGNAL RH (+) | iPod CONNECTION RECOGNITION | GND | CHARGE POWER | SHIELD | ACCESSORY DETECT | ACCESSORY IDENTITY |

JCNWA1763GE

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P

AV

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|    |   |   |
|----|---|---|
| 12 | P | - |
|----|---|---|

|                |              |
|----------------|--------------|
| Connector No.  | M114         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12FW-NH    |



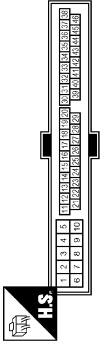
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | G             | -                           |
| 3            | O             | -                           |
| 4            | SHIELD        | -                           |
| 5            | W             | -                           |
| 6            | B             | -                           |
| 7            | R             | -                           |
| 8            | BR            | -                           |
| 9            | W             | -                           |
| 10           | W             | -                           |
| 11           | SHIELD        | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | M117             |
| Connector Name | WIRE TO WIRE     |
| Connector Type | TH163MW-CS16-TM4 |



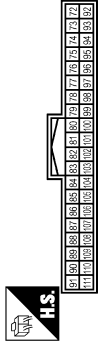
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | SB            | -                           |
| 32           | Y             | -                           |
| 33           | V             | -                           |
| 34           | LG            | -                           |
| 40           | Y             | -                           |
| 41           | G             | -                           |
| 42           | LG            | -                           |
| 43           | B             | -                           |
| 44           | B             | -                           |
| 45           | W             | -                           |
| 46           | SHIELD        | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M116         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH338MW-NS/D |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 30           | LG            | -                           |
| 31           | W             | -                           |
| 41           | O             | -                           |

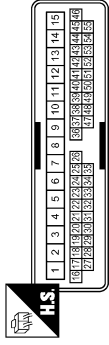
|                |                           |
|----------------|---------------------------|
| Connector No.  | M122                      |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH                 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 90           | P             | CAN-L                       |
| 91           | L             | CAN-H                       |

|     |        |   |
|-----|--------|---|
| 47  | P      | - |
| 48  | L      | - |
| 49  | SHIELD | - |
| 50  | V      | - |
| 80  | W      | - |
| 81  | SHIELD | - |
| 82  | P      | - |
| 83  | L      | - |
| 84  | G      | - |
| 85  | SHIELD | - |
| 86  | W      | - |
| 87  | B      | - |
| 88  | R      | - |
| 89  | G      | - |
| 90  | Y      | - |
| 99  | P      | - |
| 100 | L      | - |

|                |              |
|----------------|--------------|
| Connector No.  | M124         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MP-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 35           | R             | -                           |
| 37           | BR            | -                           |

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

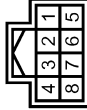
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M184                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH A/T) |
| Connector Type | A08FW                            |



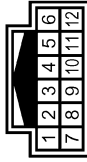
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | SOUND SIGNAL RH (+)         |
| 2            | B             | SOUND SIGNAL GND            |
| 3            | W             | SOUND SIGNAL LH (-)         |
| 7            | G             | AUX IMAGE SIGNAL            |
| 8            | R             | AUX IMAGE GND               |

|                |              |
|----------------|--------------|
| Connector No.  | M155         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | R             | -                           |
| 4            | W             | -                           |
| 5            | B             | -                           |
| 6            | B             | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

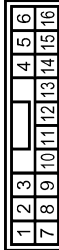
|                |              |
|----------------|--------------|
| Connector No.  | M181         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MMF-NH   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | G             | -                           |
| 3            | O             | -                           |
| 4            | SHIELD        | -                           |
| 5            | GR            | -                           |
| 6            | BR            | -                           |
| 7            | W             | -                           |
| 8            | BR            | -                           |
| 9            | L             | -                           |
| 10           | W             | -                           |
| 11           | SHIELD        | -                           |

|    |   |
|----|---|
| 12 | P |
|----|---|

|                |                      |
|----------------|----------------------|
| Connector No.  | M182                 |
| Connector Name | iPod SIDE (WITH M/T) |
| Connector Type | IP08GY               |



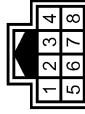
| Terminal No. | Color of Wire | Signal Name [Specification]     |
|--------------|---------------|---------------------------------|
| 1            | BR            | iPod SOUND SIGNAL LH (+)        |
| 2            | W             | iPod SOUND SIGNAL GND           |
| 5            | L             | COMM (iPod->iPod ADAPTER)       |
| 6            | P             | COMM (iPod ADAPTER->iPod)       |
| 7            | GR            | iPod SOUND SIGNAL RH (+)        |
| 9            | W             | iPod CONNECTION RECOGNITION GND |
| 10           | BR            | CHARGE POWER                    |
| 12           | L             | SHIELD                          |
| 14           | SHIELD        | SHIELD                          |
| 15           | G             | ACCESSORY DETECT                |
| 16           | O             | ACCESSORY IDENTIFY              |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M303                              |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY                           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 14           | W             | -                           |
| 15           | L             | -                           |
| 17           | BR            | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M361         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08MMF-NH   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | BR            | - [Without NAV]             |
| 4            | Y             | - [Without NAV]             |
| 5            | SHIELD        | -                           |
| 6            | SHIELD        | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M362                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH M/T) |
| Connector Type | A08FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | BR            | - [Without NAV]             |
| 2            | B             | -                           |
| 3            | Y             | - [Without NAV]             |
| 7            | G             | -                           |
| 8            | R             | -                           |

JCNWA1765GE

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AV

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M370                           |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | GT13SH-2/1S-HU                 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | FM SUB                      |
| 34           | -             | AM-FM MAIN                  |
| 35           | -             | ANTENNA AMP. ON SIGNAL      |

|                |                |
|----------------|----------------|
| Connector No.  | M375           |
| Connector Name | WIRE TO WIRE   |
| Connector Type | GT13SC-2/1S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | M376             |
| Connector Name | WIRE TO WIRE     |
| Connector Type | GT13SCH-2/1PF-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |                |
|----------------|----------------|
| Connector No.  | M378           |
| Connector Name | ANTENNA AMP.   |
| Connector Type | GT13SC-1/1S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | ANTENNA AMP. ON SIGNAL      |
| 2            | -             | AM-FM MAIN                  |

|                |                     |
|----------------|---------------------|
| Connector No.  | M379                |
| Connector Name | GLASS ANTENNA (SUB) |
| Connector Type | P01FB-A             |



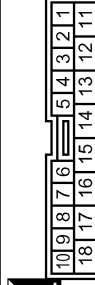
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | M381                 |
| Connector Name | GLASS ANTENNA (MAIN) |
| Connector Type | P01FB-A              |



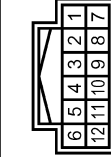
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | RI1          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10PW-NSS   |



| Terminal No. | Color of Wire | Signal Name [Specification]  |
|--------------|---------------|------------------------------|
| 1            | O             | - [Without rear view camera] |
| 2            | W             | - [Without rear view camera] |
| 3            | SHIELD        | -                            |

|                |              |
|----------------|--------------|
| Connector No.  | RI2          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12PW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification]  |
|--------------|---------------|------------------------------|
| 3            | SHIELD        | -                            |
| 4            | O             | - [Without rear view camera] |
| 5            | W             | - [Without rear view camera] |

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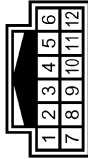
# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |              |
|----------------|--------------|
| Connector No.  | R11          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | SHIELD        | -                           |
| 4            | R             | -                           |
| 5            | G             | -                           |

|                |            |
|----------------|------------|
| Connector No.  | R17        |
| Connector Name | MICROPHONE |
| Connector Type | TK6QFW     |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | MICROPHONE SIGNAL           |
| 2            | SHIELD        | SHIELD                      |
| 4            | G             | MICROPHONE VCC              |

DTC Index

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

JCNWA1767GE

INFOID:000000004238626

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
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AV

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

| DTC                              | Display item   | Refer to                                      |
|----------------------------------|--|---|
| U1000                            | CAN COMM CIRCUIT [U1000]   | <a href="#">AV-155, "Diagnosis Procedure"</a> |
| U1010                            | CONTROL UNIT (CAN) [U1010]   | <a href="#">AV-156, "Diagnosis Procedure"</a> |
| U1310                            | CONTROL UNIT (AV) [U1310]  | <a href="#">AV-157, "DTC Logic"</a>           |
| U1200                            | Cont Unit FLASH-ROM [U1200]  | <a href="#">AV-158, "DTC Logic"</a>           |
| U1216                            | CAN CONT [U1216]   | <a href="#">AV-159, "DTC Logic"</a>           |
| U1243                            | FRONT DISP CONN [U1243]  | <a href="#">AV-160, "Diagnosis Procedure"</a> |
| U1255                            | SAT CONN [U1255]   | <a href="#">AV-162, "Diagnosis Procedure"</a> |
| U1300<br>U1240                   | <ul style="list-style-type: none"><li>• AV COMM CIRCUIT [U1300]</li><li>• SWITCH CONN [U1240]</li></ul>  | <a href="#">AV-164, "Description"</a>         |
| U1300<br>U1254                   | <ul style="list-style-type: none"><li>• AV COMM CIRCUIT [U1300]</li><li>• IPOD CONN [U1254]</li></ul>  | <a href="#">AV-164, "Description"</a>         |
| U1300<br>U1256                   | <ul style="list-style-type: none"><li>• AV COMM CIRCUIT [U1300]</li><li>• HAND FREE CONN [U1256]</li></ul>   | <a href="#">AV-164, "Description"</a>         |
| U1300<br>U1240<br>U1254<br>U1256 | <ul style="list-style-type: none"><li>• AV COMM CIRCUIT [U1300]</li><li>• SWITCH CONN [U1240]</li><li>• IPOD CONN [U1254]</li><li>• HAND FREE CONN [U1256]</li></ul> | <a href="#">AV-164, "Description"</a>         |

# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

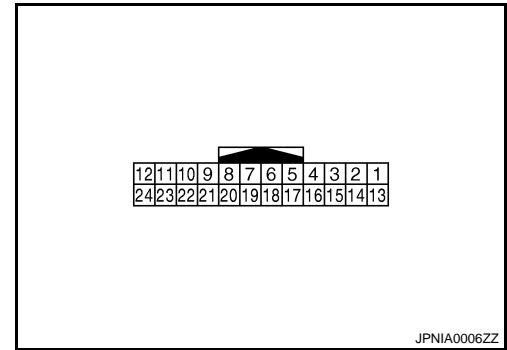
[BOSE AUDIO WITHOUT NAVIGATION]

## DISPLAY UNIT

Reference Value

INFOID:000000004238627

TERMINAL LAYOUT



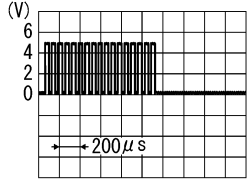
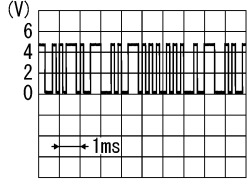
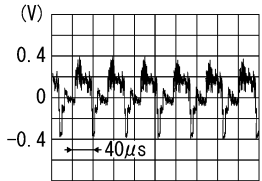
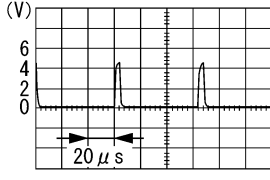
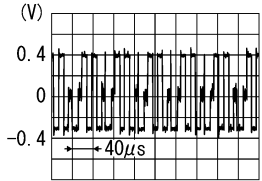
PHYSICAL VALUES

| Terminal<br>(Wire color) |        | Description                             |                  | Condition                 |  | Reference value<br>(Approx.) |
|--------------------------|--------|---|------------------|---------------------------|--|------------------------------|
| +                        | -      | Signal name                             | Input/<br>Output |                           |  |                              |
| 1<br>(B)                 | Ground | GND                                     | —                | Ignition<br>switch<br>ON  | —  | 0 V                          |
| 2<br>(Y)                 | Ground | Inverter VCC                            | Input            | Ignition<br>switch<br>ACC | —  | 9 V                          |
| 3<br>(O)                 | Ground | Signal VCC                              | Input            | Ignition<br>switch<br>ACC | —  | 9 V                          |
| 4<br>(V)                 | Ground | AUX image GND                           | —                | Ignition<br>switch<br>ON  | —  | 0 V                          |
| 5                        | —      | Shield                                  | —                | —                         | —  | —                            |
| 6<br>(L)                 | Ground | RGB signal (G: green)                   | Input            | Ignition<br>switch<br>ON  | Start confirmation/adjust-<br>ment mode, and then dis-<br>play color bar by selecting<br>"Color Spectrum Bar" on<br>DISPLAY DIAGNOSIS<br>screen. | <p>SKIB2236J</p>             |
| 7                        | —      | Shield                                  | —                | —                         | —  | —                            |
| 8<br>(R)                 | Ground | Horizontal synchronizing<br>(HP) signal | Output           | Ignition<br>switch<br>ON  | —  | <p>SKIB3601E</p>             |

# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

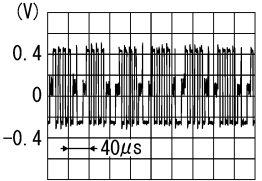
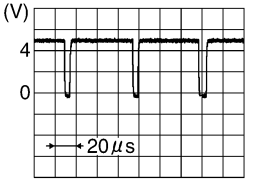
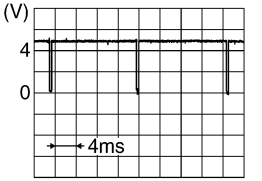
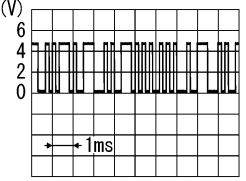
[BOSE AUDIO WITHOUT NAVIGATION]

| Terminal<br>(Wire color) |        | Description                         |                  | Condition                 | Reference value<br>(Approx.)  |
|--------------------------|--------|-------------------------------------|------------------|---------------------------|---|
| +                        | -      | Signal name                         | Input/<br>Output |                           |   |
| 9<br>(B)                 | Ground | RGB area (YS) signal                | Input            | Ignition switch ON        | At RGB image is displayed<br>5 V  |
|                          |        |                                     |                  | At AUX image is displayed | <br>PKIB4948J  |
| 11<br>(Y)                | Ground | Communication signal<br>(CONT→DISP) | Input            | Ignition switch ON        | When adjusting display brightness.<br><br>PKIB5039J  |
| 13<br>(BR)               | Ground | Inverter GND                        | —                | Ignition switch ON        | —<br>0 V  |
| 14<br>(LG)               | Ground | Signal GND                          | —                | Ignition switch ON        | —<br>0 V  |
| 15<br>(SB)               | Ground | AUX image signal                    | Input            | Ignition switch ON        | At AUX image is displayed<br><br>SKIB2251J   |
| 16<br>(BR)               | Ground | Composite synchronizing signal      | Input            | Ignition switch ON        | —<br><br>SKIA0187E   |
| 17<br>(G)                | Ground | RGB signal (R: red)                 | Input            | Ignition switch ON        | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.<br><br>SKIB2238J |

# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

| Terminal<br>(Wire color) |        | Description                           |                  | Condition                |  | Reference value<br>(Approx.)   |
|--------------------------|--------|---------------------------------------|------------------|--------------------------|--|--|
| +                        | -      | Signal name                           | Input/<br>Output |                          |  |  |
| 18<br>(P)                | Ground | RGB signal (B: blue)                  | Input            | Ignition<br>switch<br>ON | Start confirmation/adjust-<br>ment mode, and then dis-<br>play color bar by selecting<br>"Color Spectrum Bar" on<br>DISPLAY DIAGNOSIS<br>screen. | <br>SKIB2237J   |
| 19<br>(W)                | Ground | RGB synchronizing signal              | Input            | Ignition<br>switch<br>ON | —  | <br>SKIB3603E   |
| 20<br>(G)                | Ground | Vertical synchronizing (VP)<br>signal | Output           | Ignition<br>switch<br>ON | —  | <br>SKIB3598E  |
| 21                       | —      | Shield                                | —                | —                        | —  | —  |
| 22<br>(BR)               | Ground | Communication signal<br>(DISP→CONT)   | Output           | Ignition<br>switch<br>ON | When adjusting display<br>brightness.  | <br>PKIB5039J |
| 23                       | —      | Shield                                | —                | —                        | —  | —  |

## Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

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**NOTE:**

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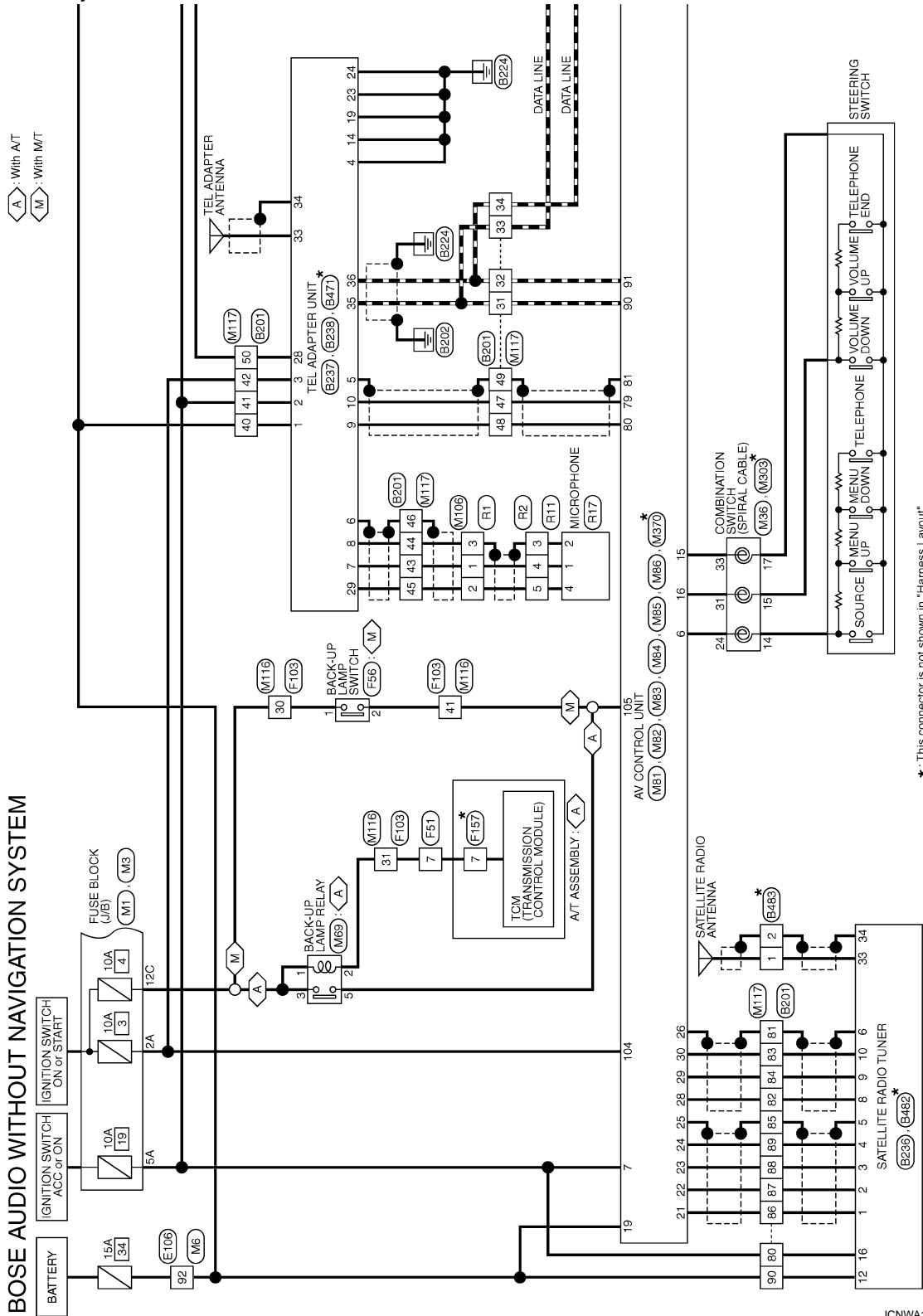
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# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

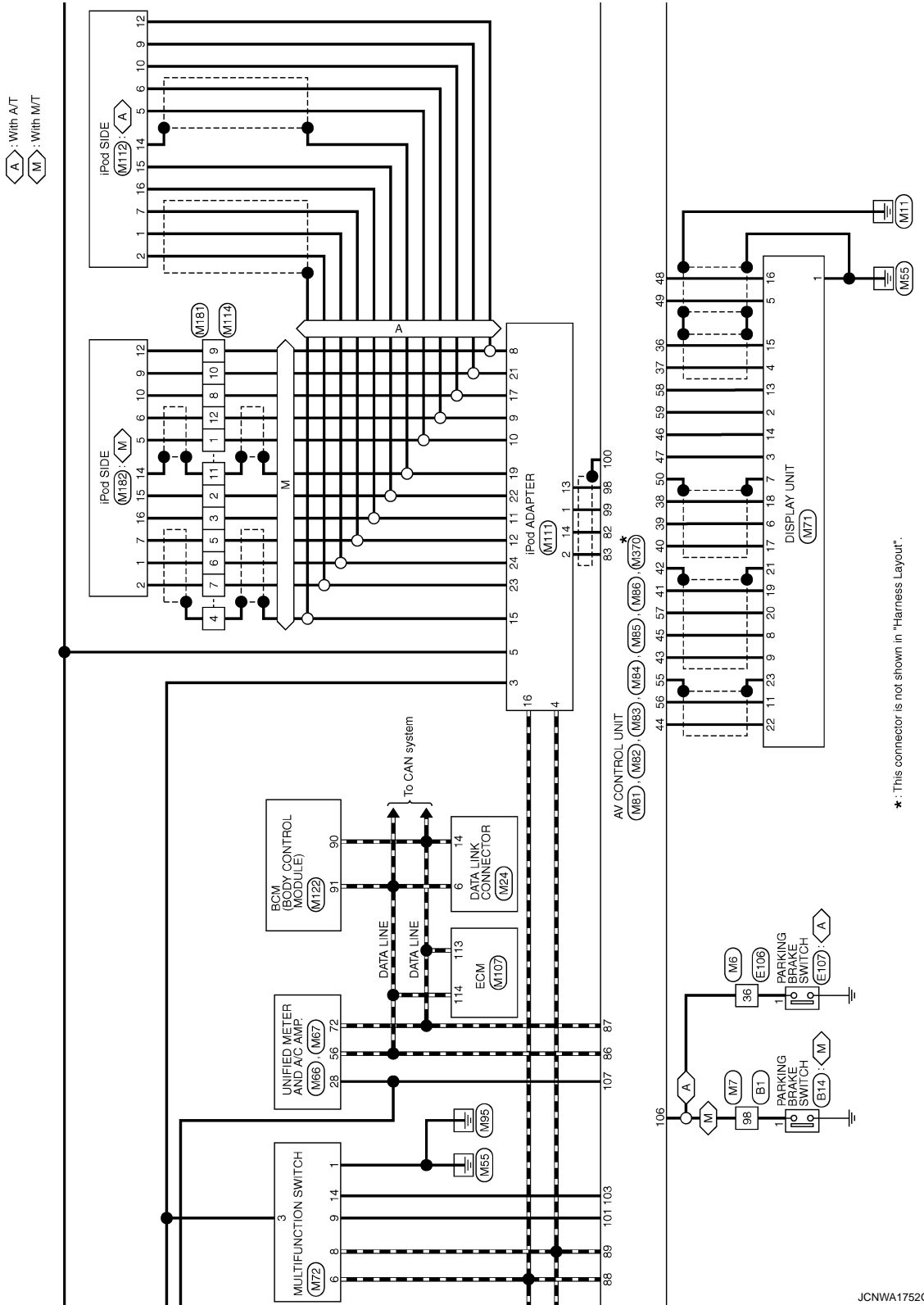


\*: This connector is not shown in "Harness Layout".

# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]



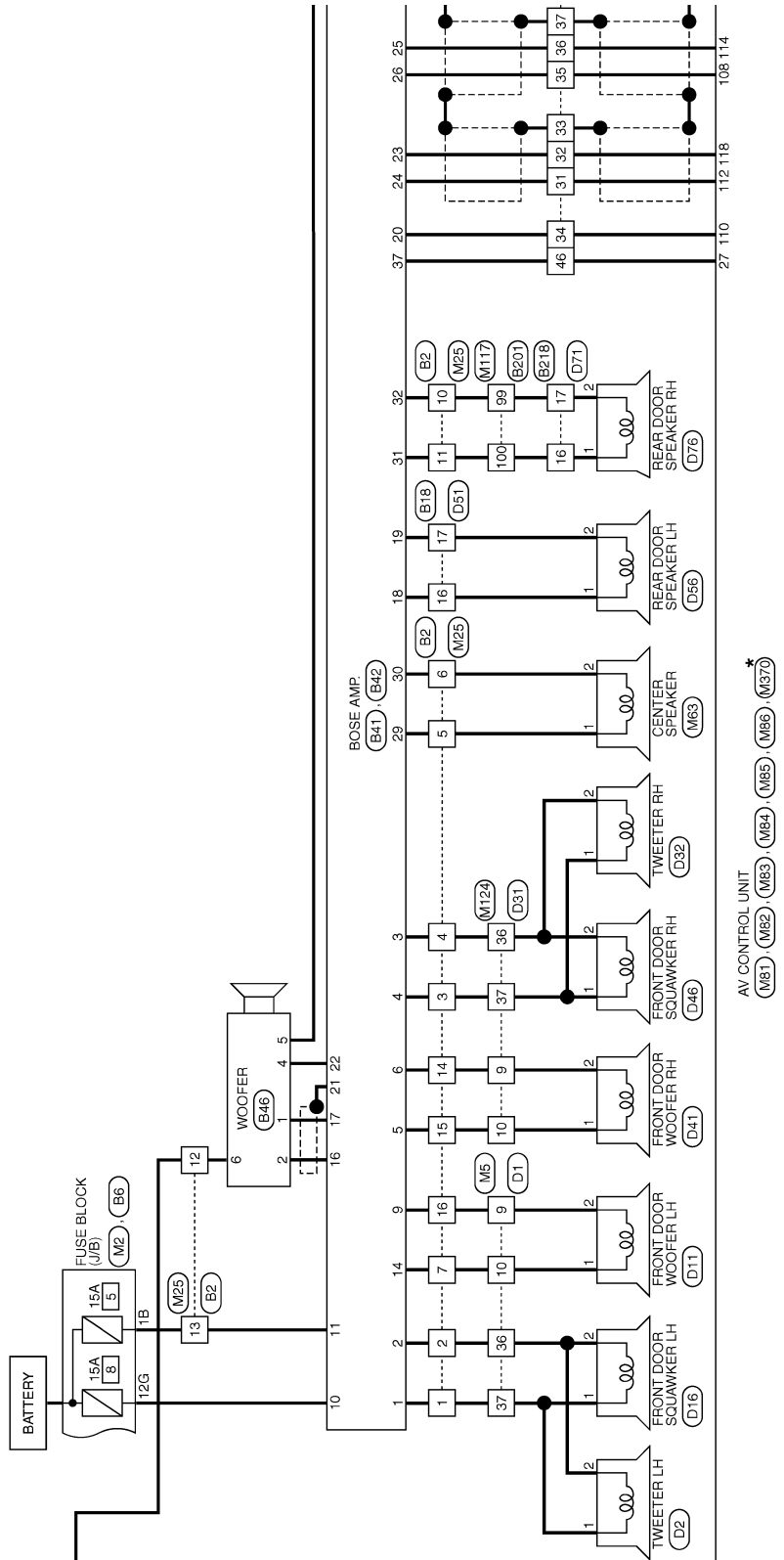
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# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]



\*: This connector is not shown in "Harness Layout".

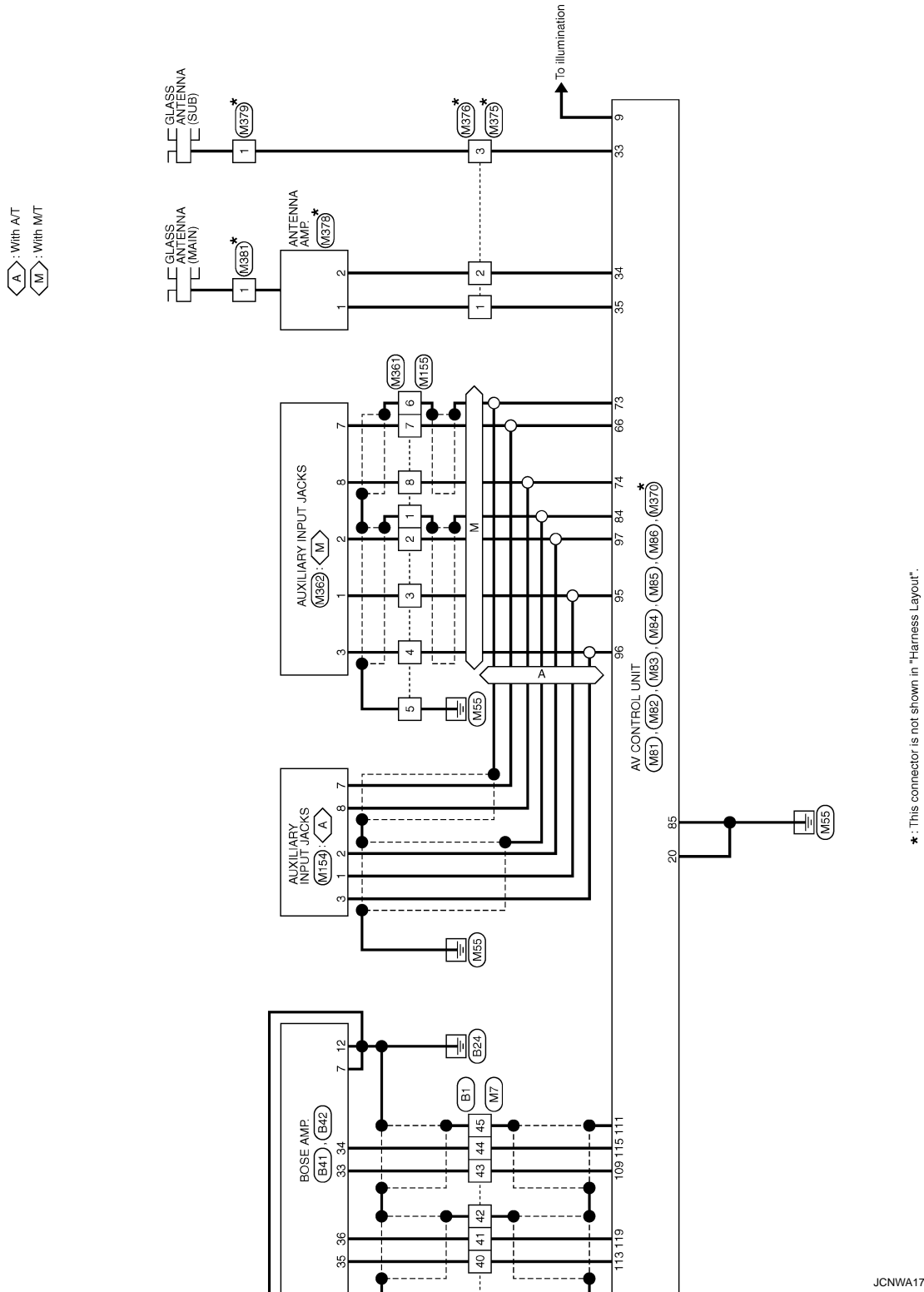
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# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]



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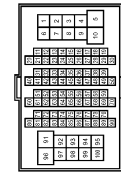
# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                 |
|----------------|-----------------|
| Connector No.  | B1              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | THBDFW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | V             | -                           |
| 32           | SB            | -                           |
| 33           | SHIELD        | -                           |
| 34           | W             | -                           |
| 35           | BR            | -                           |
| 36           | Y             | -                           |
| 37           | SHIELD        | -                           |
| 40           | P             | -                           |
| 41           | L             | -                           |
| 42           | SHIELD        | -                           |
| 43           | R             | -                           |

|    |        |   |
|----|--------|---|
| 44 | G      | - |
| 45 | SHIELD | - |
| 46 | SE     | - |
| 88 | V      | - |

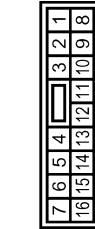


|                |                  |
|----------------|------------------|
| Connector No.  | B6               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | MS12PBR-CS       |



|              |     |   |   |
|--------------|-----|---|---|
| Terminal No. | 12G | Y | - |
|--------------|-----|---|---|

|                |              |
|----------------|--------------|
| Connector No.  | B2           |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16FW-CS    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | V             | -                           |
| 4            | LG            | -                           |
| 5            | L             | -                           |
| 6            | O             | -                           |
| 7            | B             | -                           |
| 10           | Y             | -                           |
| 11           | LG            | -                           |
| 12           | P             | -                           |
| 13           | GR            | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | B18          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10PW-NS8   |



|              |    |   |                      |
|--------------|----|---|----------------------|
| Terminal No. | 16 | L | -                    |
| 17           | P  | - | - [With BOSE system] |

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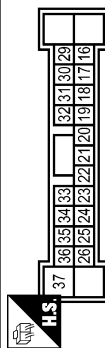
# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

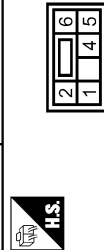
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |              |
|----------------|--------------|
| Connector No.  | B41          |
| Connector Name | BOSE AMP.    |
| Connector Type | SCA18FB-SG44 |



| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 16           | SB            | SOUND SIGNAL WOOFER (-)       |
| 17           | V             | SOUND SIGNAL WOOFER (-)       |
| 18           | L             | SOUND SIGNAL REAR DOOR LH (+) |
| 19           | P             | SOUND SIGNAL REAR DOOR LH (-) |
| 20           | W             | AMP. ON SIGNAL                |
| 21           | SHIELD        | SHIELD                        |
| 22           | GR            | WOOFER AMP. ON SIGNAL         |
| 23           | SB            | SOUND SIGNAL REAR LH (-)      |
| 24           | V             | SOUND SIGNAL REAR LH (+)      |
| 25           | Y             | SOUND SIGNAL REAR RH (-)      |
| 26           | BR            | SOUND SIGNAL REAR RH (+)      |

|                |           |
|----------------|-----------|
| Connector No.  | B46       |
| Connector Name | WOOFER    |
| Connector Type | MS08FB-CS |



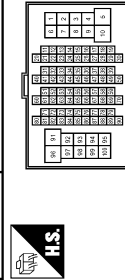
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | V             | SOUND SIGNAL WOOFER (-)     |
| 2            | SB            | SOUND SIGNAL WOOFER (+)     |
| 4            | GR            | WOOFER AMP. ON SIGNAL       |
| 5            | B             | GND                         |
| 6            | P             | BATTERY                     |

|    |    |                               |
|----|----|-------------------------------|
| 29 | L  | SOUND SIGNAL CENTER (+)       |
| 30 | O  | SOUND SIGNAL CENTER (-)       |
| 31 | LG | SOUND SIGNAL REAR DOOR RH (+) |
| 32 | V  | SOUND SIGNAL REAR DOOR RH (-) |
| 33 | R  | SOUND SIGNAL FRONT RH (+)     |
| 34 | G  | SOUND SIGNAL FRONT RH (-)     |
| 35 | P  | SOUND SIGNAL FRONT LH (+)     |
| 36 | L  | SOUND SIGNAL FRONT LH (-)     |
| 37 | SB | MODE CHANGE SIGNAL            |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | FRONT DOOR SQUAWKER LH (+)  |
| 2            | W             | FRONT DOOR SQUAWKER LH (-)  |
| 3            | LG            | FRONT DOOR SQUAWKER RH (-)  |
| 4            | V             | FRONT DOOR SQUAWKER RH (+)  |
| 5            | G             | FRONT DOOR WOOFER RH (+)    |
| 6            | R             | FRONT DOOR WOOFER RH (-)    |
| 7            | B             | GND                         |
| 9            | W             | FRONT DOOR WOOFER LH (-)    |
| 10           | Y             | BATTERY                     |
| 11           | GR            | BATTERY                     |
| 12           | B             | GND                         |

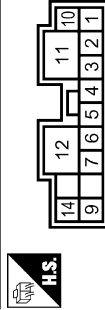
|     |        |        |
|-----|--------|--------|
| 47  | G      |        |
| 48  | Y      | SHIELD |
| 49  | P      |        |
| 50  | P      |        |
| 80  | O      |        |
| 81  | SHIELD |        |
| 82  | G      |        |
| 83  | P      |        |
| 84  | L      |        |
| 85  | SHIELD |        |
| 86  | G      |        |
| 87  | R      |        |
| 88  | W      |        |
| 89  | B      |        |
| 90  | Y      |        |
| 99  | P      |        |
| 100 | L      |        |

|                |                 |
|----------------|-----------------|
| Connector No.  | B201            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH80FW-CS16-TM4 |

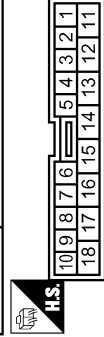


| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | L             |                             |
| 32           | P             |                             |
| 33           | G             |                             |
| 34           | R             |                             |
| 40           | V             |                             |
| 41           | LG            |                             |
| 42           | W             |                             |
| 43           | BR            |                             |
| 44           | O             |                             |
| 45           | Y             |                             |
| 46           | SHIELD        |                             |

|                |              |
|----------------|--------------|
| Connector No.  | B42          |
| Connector Name | BOSE AMP.    |
| Connector Type | SCA12FB-SJA2 |



|                |              |
|----------------|--------------|
| Connector No.  | B2.B         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NSS   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | L             |                             |
| 17           | P             |                             |

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AV

# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

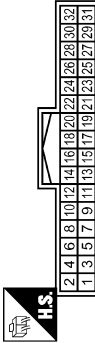
[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                       |
|----------------|-----------------------|
| Connector No.  | B236                  |
| Connector Name | SATELLITE RADIO TUNER |
| Connector Type | A16FW                 |

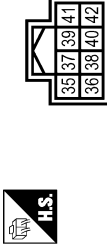


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|----------------|------------------|
| Connector No.  | B237             |
| Connector Name | TEL ADAPTER UNIT |
| Connector Type | TH32FW-NH        |



|    |   |                         |
|----|---|-------------------------|
| 19 | B | GND                     |
| 23 | B | CONTROL SIGNAL          |
| 24 | B | CONTROL SIGNAL          |
| 28 | P | VEHICLE SPEED (8-PULSE) |
| 29 | Y | MICROPHONE VCC          |

|                |                  |
|----------------|------------------|
| Connector No.  | B238             |
| Connector Name | TEL ADAPTER UNIT |
| Connector Type | TH48FW-NH        |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | G             | SOUND SIGNAL LH (-)         |
| 2            | R             | SOUND SIGNAL LH (+)         |
| 3            | W             | SOUND SIGNAL RH (-)         |
| 4            | B             | SOUND SIGNAL RH (+)         |
| 5            | SHIELD        | SHIELD                      |
| 6            | SHIELD        | SHIELD                      |
| 8            | G             | REQUEST (SAT->CONT)         |
| 9            | L             | COMM (SAT->CONT)            |
| 10           | P             | COMM (CONT->SAT)            |
| 12           | Y             | BATTERY                     |
| 16           | O             | ACC                         |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | V             | BATTERY                     |
| 2            | LG            | ACC                         |
| 3            | W             | IGNITION                    |
| 4            | B             | GND                         |
| 5            | SHIELD        | SHIELD                      |
| 6            | SHIELD        | SHIELD                      |
| 7            | BR            | MICROPHONE SIGNAL           |
| 8            | O             | MICROPHONE GND              |
| 9            | Y             | TEL VOICE SIGNAL (+)        |
| 10           | G             | TEL VOICE SIGNAL (-)        |
| 14           | B             | GND                         |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 35           | L             | AV COMM (H)                 |
| 36           | P             | AV COMM (L)                 |

|                |                  |
|----------------|------------------|
| Connector No.  | B471             |
| Connector Name | TEL ADAPTER UNIT |
| Connector Type | GT16C-1S-HU      |



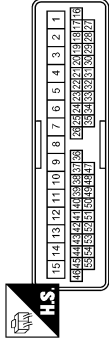
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|----------------|-----------------------|
| Connector No.  | B482                  |
| Connector Name | SATELLITE RADIO TUNER |
| Connector Type | -                     |



|                |                         |
|----------------|-------------------------|
| Connector No.  | B483                    |
| Connector Name | SATELLITE RADIO ANTENNA |
| Connector Type | GT16-1PP-HU             |



|                |              |
|----------------|--------------|
| Connector No.  | D1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH48FW-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | TEL ANTENNA                 |
| 34           | SHIELD        | SHIELD                      |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | SATELLITE ANTENNA           |
| 34           | SHIELD        | SHIELD                      |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 35           | W             | -                           |
| 37           | L             | -                           |

# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |            |
|----------------|------------|
| Connector No.  | D2         |
| Connector Name | TWEETER LH |
| Connector Type | TK02MBF-P  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | D11                  |
| Connector Name | FRONT DOOR WOOFER LH |
| Connector Type | NS02FW-CS            |



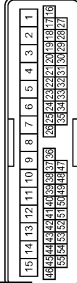
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | G             | -                           |
| 2            | R             | -                           |

|                |                        |
|----------------|------------------------|
| Connector No.  | D16                    |
| Connector Name | FRONT DOOR SQUAWKER LH |
| Connector Type | TK02FBR                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D31          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-CS/5  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 36           | W             | -                           |
| 37           | L             | -                           |

|                |            |
|----------------|------------|
| Connector No.  | D32        |
| Connector Name | TWEETER RH |
| Connector Type | TK02MBF-P  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | D41                  |
| Connector Name | FRONT DOOR WOOFER RH |
| Connector Type | NS02FW-CS            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | G             | -                           |
| 2            | R             | -                           |

|                |                        |
|----------------|------------------------|
| Connector No.  | D46                    |
| Connector Name | FRONT DOOR SQUAWKER RH |
| Connector Type | TK02FBR                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D51          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MW-NS8   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | LG            | -                           |
| 17           | Y             | -                           |

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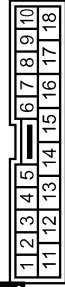
**BOSE AUDIO WITHOUT NAVIGATION SYSTEM**

|                |                      |
|----------------|----------------------|
| Connector No.  | D36                  |
| Connector Name | REAR DOOR SPEAKER LH |
| Connector Type | NS02FBR-CS           |



|                             |    |   |
|-----------------------------|----|---|
| Terminal No.                | 1  | 2 |
| Color of Wire               | LG | Y |
| Signal Name [Specification] | -  | - |

|                |              |
|----------------|--------------|
| Connector No.  | D71          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MW-NS    |



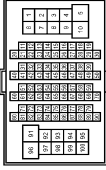
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|-----------------------------|----|----|
| Terminal No.                | 16 | 17 |
| Color of Wire               | L  | P  |
| Signal Name [Specification] | -  | -  |

|                |                      |
|----------------|----------------------|
| Connector No.  | D76                  |
| Connector Name | REAR DOOR SPEAKER RH |
| Connector Type | NS02FBR-CS           |



|                             |   |   |
|-----------------------------|---|---|
| Terminal No.                | 1 | 2 |
| Color of Wire               | L | P |
| Signal Name [Specification] | - | - |

|                |                 |
|----------------|-----------------|
| Connector No.  | E106            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH80FY-CS/8-TM4 |



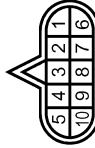
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|-----------------------------|----|----|
| Terminal No.                | 36 | 92 |
| Color of Wire               | O  | LG |
| Signal Name [Specification] | -  | -  |

|                |                                 |
|----------------|---------------------------------|
| Connector No.  | E107                            |
| Connector Name | PARKING BRAKE SWITCH (WITH A/T) |
| Connector Type | TB01FW                          |



|                             |   |
|-----------------------------|---|
| Terminal No.                | 1 |
| Color of Wire               | O |
| Signal Name [Specification] | - |

|                |              |
|----------------|--------------|
| Connector No.  | F51          |
| Connector Name | A/T ASSEMBLY |
| Connector Type | RK10FG-DGY   |



|                             |   |
|-----------------------------|---|
| Terminal No.                | 7 |
| Color of Wire               | R |
| Signal Name [Specification] | - |

|                |                     |
|----------------|---------------------|
| Connector No.  | F56                 |
| Connector Name | BACK-UP LAMP SWITCH |
| Connector Type | RK02FB              |



|                             |   |   |
|-----------------------------|---|---|
| Terminal No.                | 1 | 2 |
| Color of Wire               | R | O |
| Signal Name [Specification] | - | - |

|                |              |
|----------------|--------------|
| Connector No.  | F103         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK30FW-NS10  |



|                             |    |    |    |
|-----------------------------|----|----|----|
| Terminal No.                | 30 | 31 | 41 |
| Color of Wire               | R  | R  | O  |
| Signal Name [Specification] | -  | -  | -  |

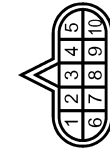
# DISPLAY UNIT

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[BOSE AUDIO WITHOUT NAVIGATION]

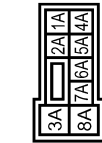
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | F157                              |
| Connector Name | TOM (TRANSMISSION CONTROL MODULE) |
| Connector Type | SP10FG                            |



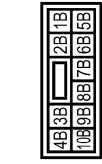
|              |   |               |   |                             |              |
|--------------|---|---------------|---|-----------------------------|--------------|
| Terminal No. | 7 | Color of Wire | L | Signal Name [Specification] | REV LAMP RLY |
|--------------|---|---------------|---|-----------------------------|--------------|

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| Connector No.  | M1               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS06FW-M2        |



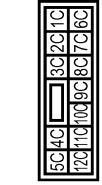
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|--------------|----|---------------|---|-----------------------------|--|
| Terminal No. | 2A | Color of Wire | G | Signal Name [Specification] |  |
|              | 5A |               | L |                             |  |

|                |                  |
|----------------|------------------|
| Connector No.  | M2               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FW-CS        |



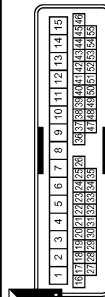
|              |    |               |    |                             |  |
|--------------|----|---------------|----|-----------------------------|--|
| Terminal No. | 1B | Color of Wire | SB | Signal Name [Specification] |  |
|--------------|----|---------------|----|-----------------------------|--|

|                |                  |
|----------------|------------------|
| Connector No.  | M3               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS        |



|              |     |               |   |                             |  |
|--------------|-----|---------------|---|-----------------------------|--|
| Terminal No. | 12C | Color of Wire | R | Signal Name [Specification] |  |
|--------------|-----|---------------|---|-----------------------------|--|

|                |              |
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| Connector No.  | M5           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH00MW-CS15  |



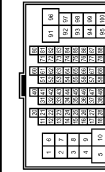
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|--------------|----|---------------|---|-----------------------------|--|
| Terminal No. | 9  | Color of Wire | W | Signal Name [Specification] |  |
|              | 10 |               | B |                             |  |
|              | 36 |               | W |                             |  |
|              | 37 |               | L |                             |  |

|                |                 |
|----------------|-----------------|
| Connector No.  | M6              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH00MW-CS16-TM4 |



|              |    |               |   |                             |  |
|--------------|----|---------------|---|-----------------------------|--|
| Terminal No. | 36 | Color of Wire | O | Signal Name [Specification] |  |
|              | 92 |               | Y |                             |  |

|                |                 |
|----------------|-----------------|
| Connector No.  | M7              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH00MW-CS16-TM4 |



|              |    |               |        |                             |  |
|--------------|----|---------------|--------|-----------------------------|--|
| Terminal No. | 31 | Color of Wire | V      | Signal Name [Specification] |  |
|              | 32 |               | LG     |                             |  |
|              | 33 |               | SHIELD |                             |  |
|              | 34 |               | SB     |                             |  |
|              | 35 |               | BR     |                             |  |
|              | 36 |               | Y      |                             |  |
|              | 37 |               | SHIELD |                             |  |
|              | 40 |               | O      |                             |  |
|              | 41 |               | W      |                             |  |
|              | 42 |               | SHIELD |                             |  |
|              | 43 |               | R      |                             |  |

|              |    |               |        |                             |  |
|--------------|----|---------------|--------|-----------------------------|--|
| Terminal No. | 44 | Color of Wire | G      | Signal Name [Specification] |  |
|              | 45 |               | SHIELD |                             |  |
|              | 46 |               | SB     |                             |  |
|              | 98 |               | O      |                             |  |

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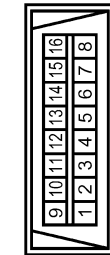
# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

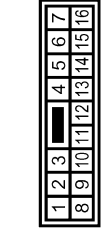
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                     |
|----------------|---------------------|
| Connector No.  | M24                 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW-P            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6            | L             | -                           |
| 14           | P             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M25          |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MW-CS    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | BR            | -                           |
| 4            | R             | -                           |
| 5            | L             | -                           |
| 6            | LG            | -                           |
| 7            | B             | -                           |
| 10           | P             | -                           |
| 11           | L             | -                           |
| 12           | Y             | -                           |
| 13           | SB            | -                           |

|    |   |   |
|----|---|---|
| 14 | R | - |
| 15 | G | - |
| 16 | W | - |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M36                               |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY-TV                        |



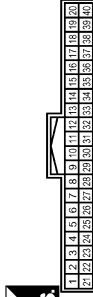
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24           | P             | -                           |
| 31           | L             | -                           |
| 33           | B             | -                           |

|                |                |
|----------------|----------------|
| Connector No.  | M63            |
| Connector Name | CENTER SPEAKER |
| Connector Type | TK02FBR        |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | LG            | -                           |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M66                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH                  |



| Terminal No. | Color of Wire | Signal Name [Specification]    |
|--------------|---------------|--------------------------------|
| 28           | R             | VEHICLE SPEED SIGNAL (8-PULSE) |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M67                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH32FW-NH                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56           | L             | CAN-H                       |
| 72           | P             | CAN-L                       |

|                |                    |
|----------------|--------------------|
| Connector No.  | M69                |
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | MS02FL-M2-LC       |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | W             | -                           |
| 3            | LG            | -                           |
| 5            | O             | -                           |

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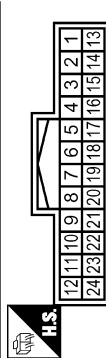
# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

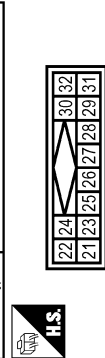
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M71                         |
| Connector Name | DISPLAY UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 2            | Y             | INVERTER VCC                |
| 3            | O             | SIGNAL VCC                  |
| 4            | Y             | AUX IMAGE GND               |
| 5            | Y             | SHIELD                      |
| 6            | L             | RGB (G.GREEN) SIGNAL        |
| 7            | L             | SHIELD                      |
| 8            | R             | HP                          |
| 9            | B             | RGB AREA (YS) SIGNAL        |
| 11           | Y             | COMM (CONT->DISP)           |
| 13           | BR            | INVERTER GND                |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M82                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | A12FW                          |



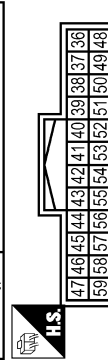
| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 21           | W             | SATELLITE SOUND SIGNAL LH (C) |
| 22           | B             | SATELLITE SOUND SIGNAL LH (C) |
| 23           | R             | SATELLITE SOUND SIGNAL RH (C) |
| 24           | G             | SATELLITE SOUND SIGNAL RH (C) |
| 25           | SHIELD        | SHIELD                        |
| 26           | SHIELD        | SHIELD                        |
| 27           | SB            | MODE CHANGE SIGNAL            |
| 28           | P             | REQUEST (SAT->CONT)           |
| 29           | G             | COMM (SAT->CONT)              |
| 30           | L             | COMM (CONT->SAT)              |

|    |        |                     |
|----|--------|---------------------|
| 14 | LG     | SIGNAL GND          |
| 15 | SR     | AUX IMAGE SIGNAL    |
| 16 | BR     | COMP SYNC           |
| 17 | G      | RGB (R.RED) SIGNAL  |
| 18 | D      | RGB (B.BLUE) SIGNAL |
| 19 | W      | RGB SYNC            |
| 20 | G      | VP                  |
| 21 | SHIELD | SHIELD              |
| 22 | BR     | COMM (DISP->CONT)   |
| 23 | SHIELD | SHIELD              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 3            | L             | ACC                         |
| 6            | G             | AV COMM (H)                 |
| 8            | R             | AV COMM (L)                 |
| 9            | BR            | SW GND                      |
| 14           | SB            | EJECT SIGNAL                |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M83                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH                      |



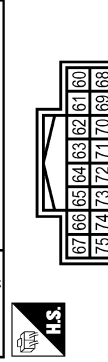
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | SB            | AUX IMAGE SIGNAL            |
| 37           | V             | AUX IMAGE GND               |
| 38           | P             | RGB (B.BLUE) SIGNAL         |
| 39           | L             | RGB (G.GREEN) SIGNAL        |
| 40           | G             | RGB (R.RED) SIGNAL          |
| 41           | W             | RGB SYNC                    |
| 42           | SHIELD        | SHIELD                      |
| 43           | B             | RGB AREA (YS) SIGNAL        |
| 44           | BR            | COMM (DISP->CONT)           |
| 45           | R             | HP                          |
| 46           | LG            | SIGNAL GND                  |

|                |                      |
|----------------|----------------------|
| Connector No.  | M72                  |
| Connector Name | MULTIFUNCTION SWITCH |
| Connector Type | TH16FW-NH            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6            | P             | STRG SW A                   |
| 7            | V             | ACC                         |
| 9            | L             | ILLUMINATION                |
| 15           | B             | STRG SW GND                 |
| 16           | L             | STRG SW B                   |
| 19           | Y             | BATTERY                     |
| 20           | B             | GND                         |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M84                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH16FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 66           | G             | AUX IMAGE SIGNAL            |
| 73           | SHIELD        | SHIELD                      |
| 74           | R             | AUX IMAGE GND               |

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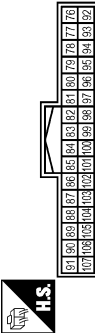
# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M85                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification]    |
|--------------|---------------|--------------------------------|
| 79           | P             | TEL VOICE SIGNAL (-)           |
| 80           | L             | TEL VOICE SIGNAL (+)           |
| 81           | SHIELD        | SHIELD                         |
| 82           | G             | iPod SOUND SIGNAL RH (-)       |
| 83           | B             | iPod SOUND SIGNAL RH (+)       |
| 84           | SHIELD        | SHIELD                         |
| 85           | B             | GND                            |
| 86           | L             | CAN-H                          |
| 87           | P             | CAN-L                          |
| 88           | V             | AV COMM (H) [With BOSE system] |
| 89           | LG            | AV COMM (L) [With BOSE system] |

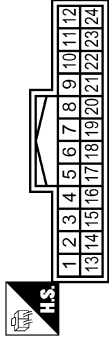
|                |                    |
|----------------|--------------------|
| Connector No.  | M107               |
| Connector Name | ECM                |
| Connector Type | RI24FGY-R28-R-LH-Z |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 113          | P             | VEHCAN-LI                   |
| 114          | L             | VEHCAN-HI                   |

|     |        |                          |
|-----|--------|--------------------------|
| 90  | SB     | AV COMM (H)              |
| 91  | Y      | AV COMM (L)              |
| 95  | R      | AUX SOUND SIGNAL RH (+)  |
| 96  | W      | AUX SOUND SIGNAL LH (+)  |
| 97  | B      | SHIELD                   |
| 98  | W      | iPod SOUND SIGNAL LH (-) |
| 99  | Y      | iPod SOUND SIGNAL LH (+) |
| 100 | SHIELD | SHIELD                   |
| 101 | BR     | SW GND                   |
| 103 | SB     | EJECT SIGNAL             |
| 104 | G      | IGNITION                 |
| 105 | O      | REVERSE                  |
| 106 | SB     | PARKING BRAKE            |
| 107 | GR     | VEHICLE SPEED (3-PULSE)  |

|                |              |
|----------------|--------------|
| Connector No.  | M111         |
| Connector Name | iPOD ADAPTER |
| Connector Type | TH24FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | iPod SOUND SIGNAL LH (-)    |
| 2            | B             | iPod SOUND SIGNAL RH (+)    |
| 3            | V             | ACC                         |
| 4            | R             | AV COMM (L)                 |
| 5            | Y             | BATTERY                     |
| 8            | W             | CHARGE POWER                |
| 9            | P             | COMM (iPod Adapter->iPod)   |
| 10           | L             | COMM (iPod->iPod Adapter)   |
| 11           | O             | ACCESSORY IDENTITY          |
| 12           | W             | iPod SOUND SIGNAL RH (+)    |
| 13           | W             | iPod SOUND SIGNAL LH (-)    |

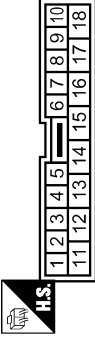
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|----------------|--------------------------------|
| Connector No.  | M86                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH12FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 108          | BR            | SOUND SIGNAL REAR RH (+)    |
| 109          | R             | SOUND SIGNAL FRONT RH (+)   |
| 110          | SB            | AMP. ON SIGNAL              |
| 111          | B             | SHIELD                      |
| 112          | V             | SOUND SIGNAL REAR LH (+)    |
| 113          | O             | SOUND SIGNAL FRONT LH (+)   |
| 114          | Y             | SOUND SIGNAL REAR RH (-)    |
| 115          | G             | SOUND SIGNAL FRONT RH (-)   |
| 118          | LG            | SOUND SIGNAL REAR LH (-)    |
| 119          | W             | SOUND SIGNAL FRONT LH (-)   |

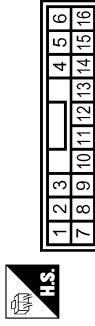
|    |        |                             |
|----|--------|-----------------------------|
| 14 | G      | iPod SOUND SIGNAL RH (-)    |
| 15 | SHIELD | SHIELD                      |
| 16 | G      | AV COMM (H)                 |
| 17 | BR     | SHIELD                      |
| 19 | SHIELD | SHIELD                      |
| 21 | W      | iPod CONNECTION RECOGNITION |
| 22 | G      | ACCESSORY DETECT            |
| 23 | R      | iPod SOUND SIGNAL GND       |
| 24 | B      | iPod SOUND SIGNAL LH (+)    |

|                |              |
|----------------|--------------|
| Connector No.  | M106         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MF-N5B   |



| Terminal No. | Color of Wire | Signal Name [Specification]  |
|--------------|---------------|------------------------------|
| 1            | B             | - [Without rear view camera] |
| 2            | W             | - [Without rear view camera] |
| 3            | R             | - [Without rear view camera] |

|                |                      |
|----------------|----------------------|
| Connector No.  | M112                 |
| Connector Name | iPOD SIDE (WITH A/T) |
| Connector Type | IP16FGY              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | iPod SOUND SIGNAL LH (+)    |
| 2            | R             | iPod SOUND SIGNAL GND       |
| 5            | L             | COMM (iPod->iPod Adapter)   |
| 6            | P             | COMM (iPod Adapter->iPod)   |
| 7            | W             | iPod SOUND SIGNAL RH (-)    |
| 9            | W             | iPod CONNECTION RECOGNITION |
| 10           | BR            | GND                         |
| 12           | W             | CHARGE POWER                |
| 14           | SHIELD        | SHIELD                      |
| 15           | G             | ACCESSORY DETECT            |
| 16           | O             | ACCESSORY IDENTITY          |

# DISPLAY UNIT

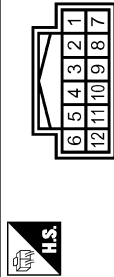
< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

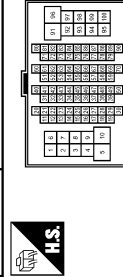
|    |   |   |
|----|---|---|
| 12 | P | - |
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|----------------|--------------|
| Connector No.  | M114         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12FW-NH    |



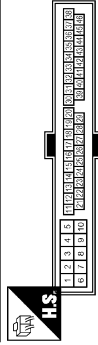
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | G             | -                           |
| 3            | O             | -                           |
| 4            | SHIELD        | -                           |
| 5            | W             | -                           |
| 6            | B             | -                           |
| 7            | R             | -                           |
| 8            | BR            | -                           |
| 9            | W             | -                           |
| 10           | W             | -                           |
| 11           | SHIELD        | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | M117            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH60MW-CS16-TM4 |



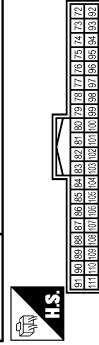
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | SB            | -                           |
| 32           | Y             | -                           |
| 33           | V             | -                           |
| 34           | LG            | -                           |
| 40           | Y             | -                           |
| 41           | G             | -                           |
| 42           | LG            | -                           |
| 43           | B             | -                           |
| 44           | R             | -                           |
| 45           | W             | -                           |
| 46           | SHIELD        | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M116         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK38MW-NS/D  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 30           | LG            | -                           |
| 31           | W             | -                           |
| 41           | O             | -                           |

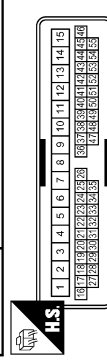
|                |                           |
|----------------|---------------------------|
| Connector No.  | M122                      |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH                 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 90           | P             | CAN-L                       |
| 91           | L             | CAN-H                       |

|     |        |   |
|-----|--------|---|
| 47  | P      | - |
| 48  | L      | - |
| 49  | SHIELD | - |
| 50  | V      | - |
| 80  | W      | - |
| 81  | SHIELD | - |
| 82  | P      | - |
| 83  | L      | - |
| 84  | G      | - |
| 85  | SHIELD | - |
| 86  | W      | - |
| 87  | B      | - |
| 88  | R      | - |
| 89  | G      | - |
| 90  | Y      | - |
| 99  | P      | - |
| 100 | L      | - |

|                |              |
|----------------|--------------|
| Connector No.  | M124         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 36           | R             | -                           |
| 37           | BR            | -                           |

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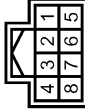
**BOSE AUDIO WITHOUT NAVIGATION SYSTEM**

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M154                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH A/T) |
| Connector Type | A08FW                            |



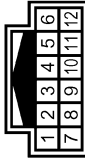
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | SOUND SIGNAL RH (+)         |
| 2            | B             | SOUND SIGNAL GND            |
| 3            | W             | SOUND SIGNAL LH (+)         |
| 7            | G             | AUX IMAGE SIGNAL            |
| 8            | R             | AUX IMAGE GND               |

|                |              |
|----------------|--------------|
| Connector No.  | M155         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | R             | -                           |
| 4            | W             | -                           |
| 5            | B             | -                           |
| 6            | B             | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M181         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MM-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | G             | -                           |
| 3            | O             | -                           |
| 4            | SHIELD        | -                           |
| 5            | GR            | -                           |
| 6            | BR            | -                           |
| 7            | W             | -                           |
| 8            | BR            | -                           |
| 9            | L             | -                           |
| 10           | W             | -                           |
| 11           | SHIELD        | -                           |

|    |   |   |
|----|---|---|
| 12 | P | - |
|----|---|---|

|                |                      |
|----------------|----------------------|
| Connector No.  | M182                 |
| Connector Name | iPod SIDE (WITH M/T) |
| Connector Type | IP08FGY              |



| Terminal No. | Color of Wire | Signal Name [Specification]     |
|--------------|---------------|---------------------------------|
| 1            | BR            | iPod SOUND SIGNAL LH (+)        |
| 2            | W             | iPod SOUND SIGNAL GND           |
| 5            | L             | COMM (iPod->iPod ADAPTER)       |
| 6            | P             | COMM (iPod ADAPTER->iPod)       |
| 7            | GR            | iPod SOUND SIGNAL RH (+)        |
| 9            | W             | iPod CONNECTION RECOGNITION GND |
| 12           | L             | CHARGE POWER                    |
| 14           | SHIELD        | SHIELD                          |
| 15           | G             | ACCESSORY DETECT                |
| 16           | O             | ACCESSORY IDENTITY              |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M303                              |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY                           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 14           | W             | -                           |
| 15           | L             | -                           |
| 17           | BR            | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M361         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08MM-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | BR            | - [Without NAV]             |
| 4            | Y             | - [Without NAV]             |
| 5            | SHIELD        | -                           |
| 6            | SHIELD        | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M362                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH M/T) |
| Connector Type | A08FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | BR            | - [Without NAV]             |
| 2            | B             | -                           |
| 3            | Y             | - [Without NAV]             |
| 7            | G             | -                           |
| 8            | R             | -                           |

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M370                           |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | GT13SH-2 / S-HU                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | FM SUB                      |
| 34           | -             | AM-FM MAIN                  |
| 35           | -             | ANTENNA AMP. ON SIGNAL      |

|                |                 |
|----------------|-----------------|
| Connector No.  | M375            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | GT13SC-2 / S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |                   |
|----------------|-------------------|
| Connector No.  | M376              |
| Connector Name | WIRE TO WIRE      |
| Connector Type | GT13SCH-2 / PP-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | M378            |
| Connector Name | ANTENNA AMP.    |
| Connector Type | GT13SC-1 / S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | ANTENNA AMP. ON SIGNAL      |
| 2            | -             | AM-FM MAIN                  |

|                |                     |
|----------------|---------------------|
| Connector No.  | M379                |
| Connector Name | GLASS ANTENNA (SUB) |
| Connector Type | P01FB-A             |



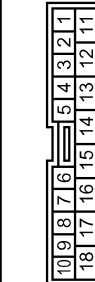
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

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|----------------|----------------------|
| Connector No.  | M381                 |
| Connector Name | GLASS ANTENNA (MAIN) |
| Connector Type | P01FB-A              |



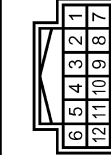
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | R1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TR10FW-NSS   |



| Terminal No. | Color of Wire | Signal Name [Specification]  |
|--------------|---------------|------------------------------|
| 1            | O             | - [Without rear view camera] |
| 2            | W             | - [Without rear view camera] |
| 3            | SHIELD        | -                            |

|                |              |
|----------------|--------------|
| Connector No.  | R2           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TR12FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification]  |
|--------------|---------------|------------------------------|
| 3            | SHIELD        | -                            |
| 4            | O             | - [Without rear view camera] |
| 5            | W             | - [Without rear view camera] |

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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|----------------|--------------|
| Connector No.  | R11          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | SHIELD        | -                           |
| 4            | R             | -                           |
| 5            | G             | -                           |

|                |            |
|----------------|------------|
| Connector No.  | R17        |
| Connector Name | MICROPHONE |
| Connector Type | TKGQFW     |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | MICROPHONE SIGNAL           |
| 2            | SHIELD        | SHIELD                      |
| 4            | G             | MICROPHONE VCC              |

JCNWA1767GE

# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

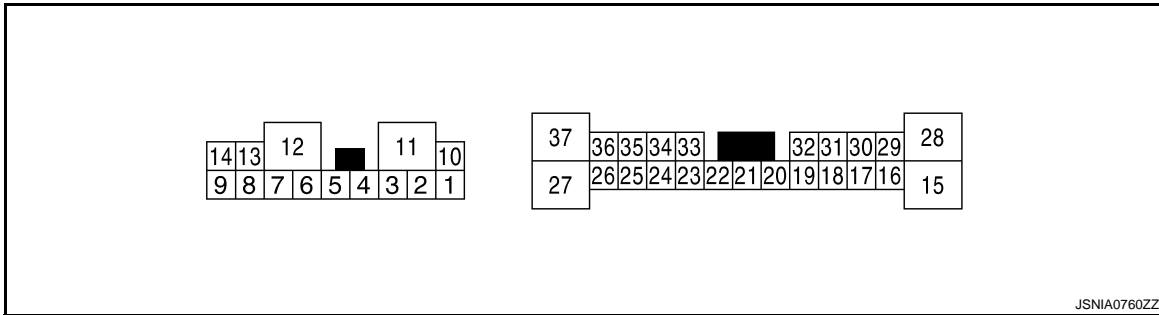
[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AMP.

Reference Value

INFOID:000000004238629

### TERMINAL LAYOUT



### PHYSICAL VALUES

| Terminal (Wire color) |        | Description                         |              | Condition           |              | Reference value (Approx.) |
|-----------------------|--------|-------------------------------------|--------------|---------------------|--------------|---------------------------|
| +                     | -      | Signal name                         | Input/Output |                     |              |                           |
| 1 (L)                 | 2 (W)  | Sound signal front door squawker LH | Output       | Ignition switch ON  | Voice output | <br>SKIB3609E             |
| 4 (V)                 | 3 (LG) | Sound signal front door squawker RH | Output       | Ignition switch ON  | Voice output | <br>SKIB3609E             |
| 5 (G)                 | 6 (R)  | Sound signal front door woofer RH   | Output       | Ignition switch ON  | Voice output | <br>SKIB3609E             |
| 7 (B)                 | Ground | GND                                 | —            | Ignition switch ON  | —            | 0 V                       |
| 10 (Y)                | Ground | Battery power supply                | Input        | Ignition switch OFF | —            | Battery voltage           |
| 11 (GR)               | Ground | Battery power supply                | Input        | Ignition switch OFF | —            | Battery voltage           |
| 12 (B)                | Ground | GND                                 | —            | Ignition switch ON  | —            | 0 V                       |

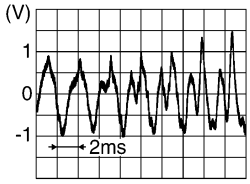
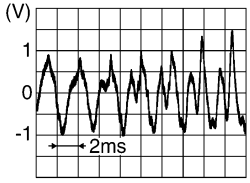
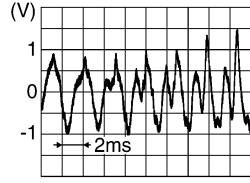
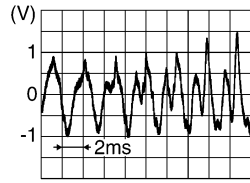
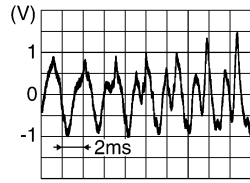
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# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

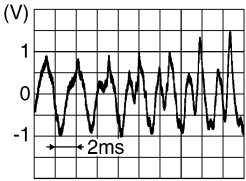
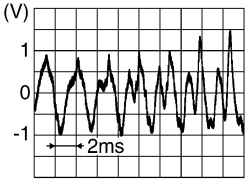
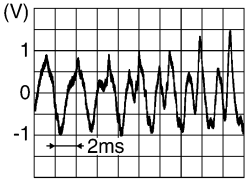
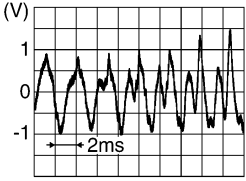
| Terminal<br>(Wire color) |            | Description                          |                  | Condition                 |              | Reference value<br>(Approx.)  |
|--------------------------|------------|--------------------------------------|------------------|---------------------------|--------------|---|
| +                        | -          | Signal name                          | Input/<br>Output |                           |              |   |
| 14<br>(B)                | 9<br>(W)   | Sound signal front door<br>woofer LH | Output           | Ignition<br>switch<br>ON  | Voice output |  <p style="text-align: right; font-size: small;">SKIB3609E</p>   |
| 16<br>(SB)               | 17<br>(V)  | Sound signal rear woofer             | Output           | Ignition<br>switch<br>ON  | Voice output |  <p style="text-align: right; font-size: small;">SKIB3609E</p>   |
| 18<br>(L)                | 19<br>(P)  | Sound signal rear door<br>speaker LH | Output           | Ignition<br>switch<br>ON  | Voice output |  <p style="text-align: right; font-size: small;">SKIB3609E</p>  |
| 20<br>(W)                | Ground     | Amp. ON signal                       | Input            | Ignition<br>switch<br>ACC | —            | 10 V  |
| 21                       | —          | Shield                               | —                | —                         | —            | —   |
| 22<br>(GR)               | Ground     | Woofer Amp. ON signal                | Output           | Ignition<br>switch<br>ACC | —            | 10 V  |
| 24<br>(V)                | 23<br>(SB) | Sound signal rear LH                 | Input            | Ignition<br>switch<br>ON  | Voice output |  <p style="text-align: right; font-size: small;">SKIB3609E</p> |
| 26<br>(BR)               | 25<br>(Y)  | Sound signal rear RH                 | Input            | Ignition<br>switch<br>ON  | Voice output |  <p style="text-align: right; font-size: small;">SKIB3609E</p> |



# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

| Terminal<br>(Wire color) |           | Description                       |                  | Condition           |                          | Reference value<br>(Approx.)  |
|--------------------------|-----------|-----------------------------------|------------------|---------------------|--------------------------|---|
| +                        | -         | Signal name                       | Input/<br>Output |                     |                          |   |
| 29<br>(O)                | 30<br>(L) | Sound signal center speaker       | Output           | Ignition switch ON  | Voice output             |  <p style="text-align: right; font-size: small;">SKIB3609E</p>   |
| 31<br>(LG)               | 32<br>(Y) | Sound signal rear door speaker RH | Output           | Ignition switch ON  | Voice output             |  <p style="text-align: right; font-size: small;">SKIB3609E</p>   |
| 33<br>(R)                | 34<br>(G) | Sound signal front RH             | Input            | Ignition switch ON  | Voice output             |  <p style="text-align: right; font-size: small;">SKIB3609E</p>  |
| 35<br>(P)                | 36<br>(L) | Sound signal front LH             | Input            | Ignition switch ON  | Voice output             |  <p style="text-align: right; font-size: small;">SKIB3609E</p> |
| 37<br>(SB)               | Ground    | Mode change signal                | Input            | Ignition switch ON  | Driver's Audio Stage ON  | 0 V   |
|                          |           |                                   |                  | Ignition switch OFF | Driver's Audio Stage OFF | 8.5 V   |

## Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

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**NOTE:**

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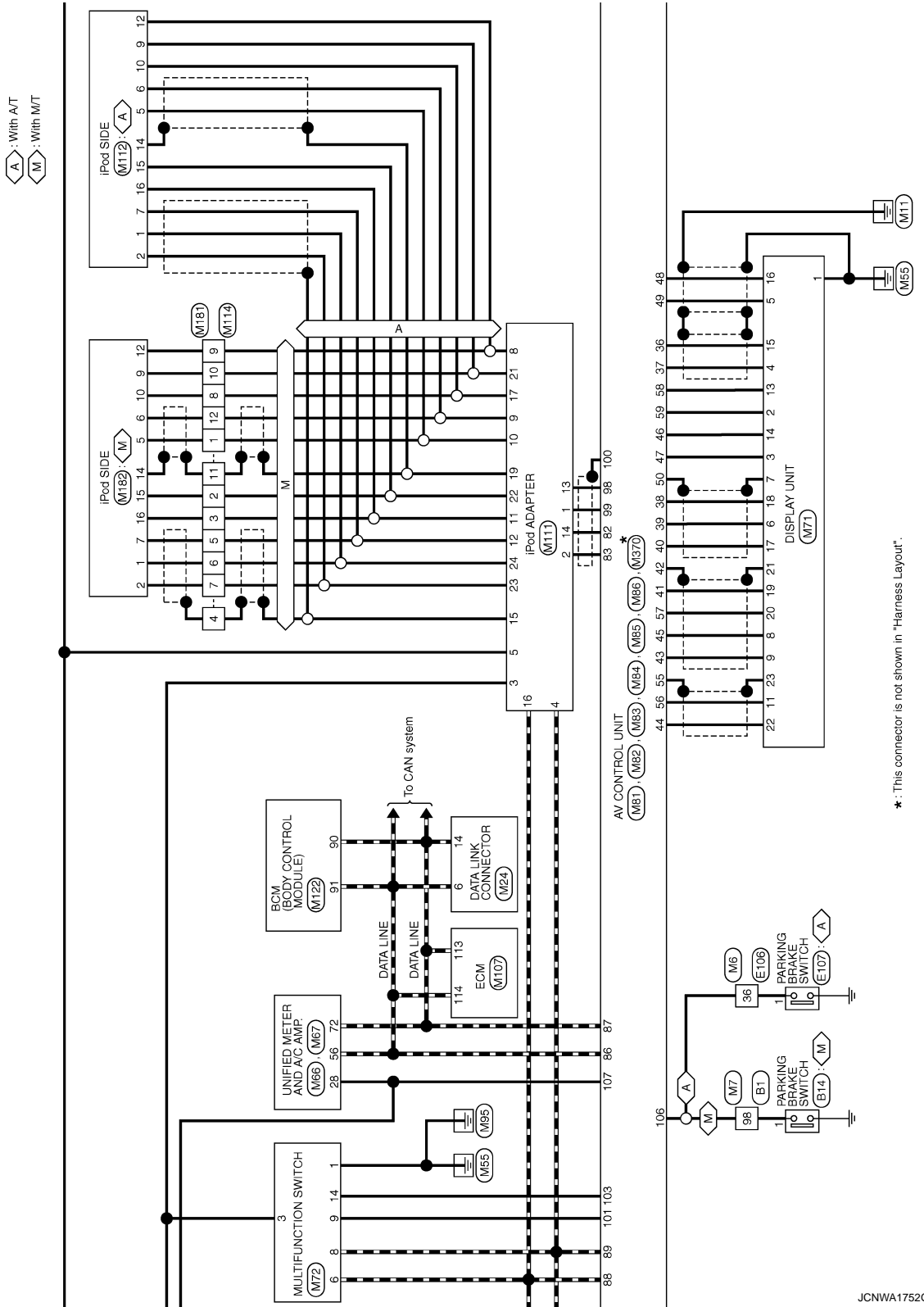
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# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]



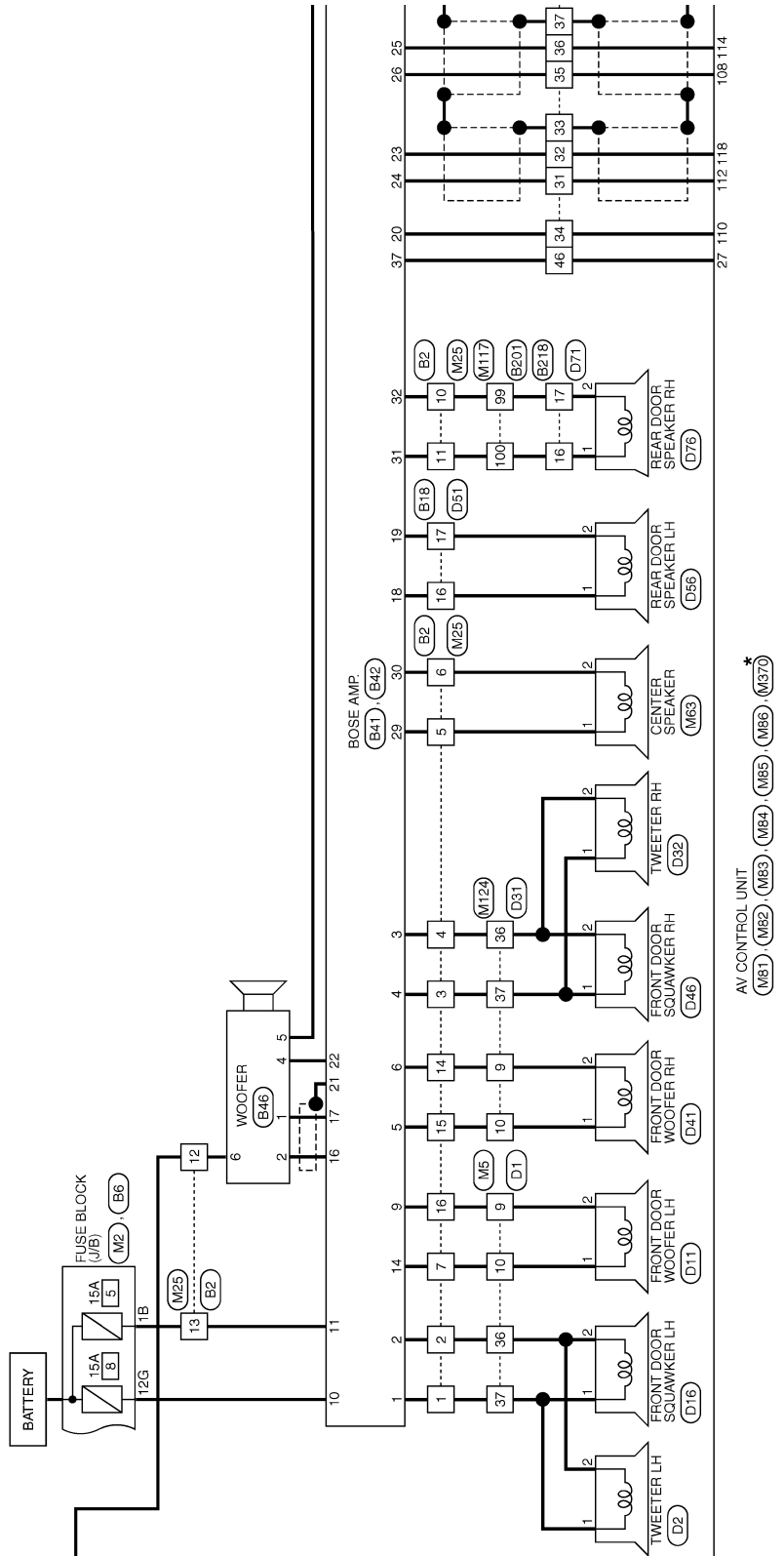
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# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]



AV CONTROL UNIT  
 (M81) (M82) (M83) (M84) (M85) (M86) (M87) \*

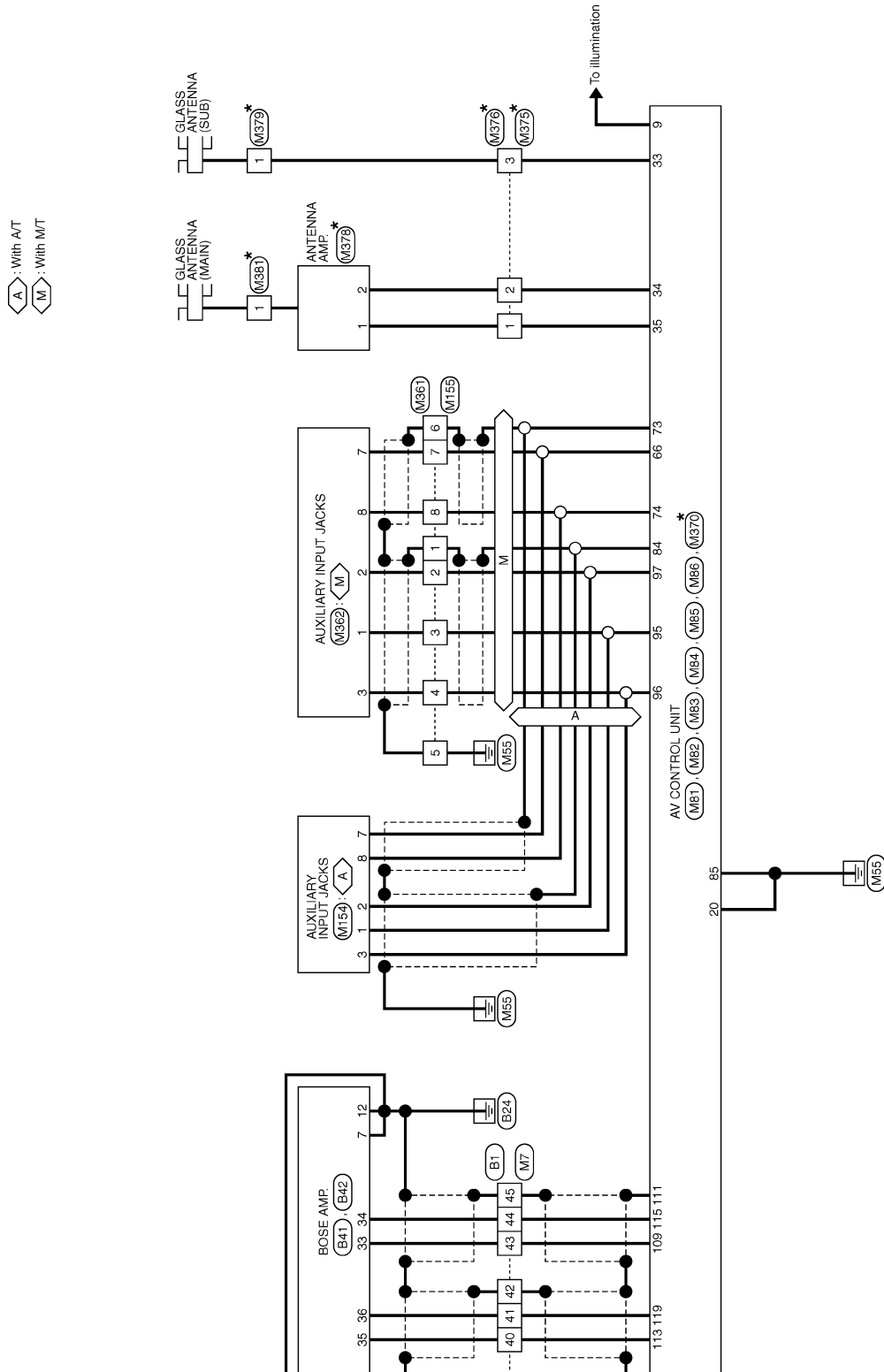
\*: This connector is not shown in "Harness Layout".

JCNWA1753GE

# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]



\*: This connector is not shown in "Harness Layout".

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                 |
|----------------|-----------------|
| Connector No.  | B1              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | THBDFW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | V             | -                           |
| 32           | SB            | -                           |
| 33           | SHIELD        | -                           |
| 34           | W             | -                           |
| 35           | BR            | -                           |
| 36           | Y             | -                           |
| 37           | SHIELD        | -                           |
| 40           | P             | -                           |
| 41           | L             | -                           |
| 42           | SHIELD        | -                           |
| 43           | R             | -                           |

|    |        |   |
|----|--------|---|
| 44 | G      | - |
| 45 | SHIELD | - |
| 46 | SE     | - |
| 88 | V      | - |

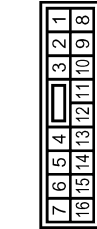


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| Connector No.  | B6               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | MS12PBR-CS       |



|              |     |   |   |
|--------------|-----|---|---|
| Terminal No. | 12G | Y | - |
|--------------|-----|---|---|

|                |              |
|----------------|--------------|
| Connector No.  | B2           |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16FW-CS    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | V             | -                           |
| 4            | LG            | -                           |
| 5            | L             | -                           |
| 6            | O             | -                           |
| 7            | B             | -                           |
| 10           | Y             | -                           |
| 11           | LG            | -                           |
| 12           | P             | -                           |
| 13           | GR            | -                           |

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| Connector No.  | B18          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10PW-NS8   |

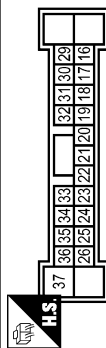


|              |    |   |   |
|--------------|----|---|---|
| Terminal No. | 16 | L | - |
| 17           | P  | - | - |

|    |   |
|----|---|
| 14 | R |
| 15 | G |
| 16 | W |

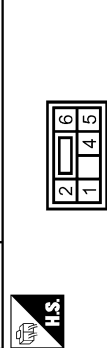
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |              |
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| Connector No.  | B41          |
| Connector Name | BOSE AMP.    |
| Connector Type | SCA18FB-SG44 |



| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 16           | SB            | SOUND SIGNAL WOOFER (-)       |
| 17           | V             | SOUND SIGNAL WOOFER (-)       |
| 18           | L             | SOUND SIGNAL REAR DOOR LH (+) |
| 19           | P             | SOUND SIGNAL REAR DOOR LH (-) |
| 20           | W             | AMP. ON SIGNAL                |
| 21           | SHIELD        | SHIELD                        |
| 22           | GR            | WOOFER AMP. ON SIGNAL         |
| 23           | SB            | SOUND SIGNAL REAR LH (-)      |
| 24           | V             | SOUND SIGNAL REAR LH (+)      |
| 25           | Y             | SOUND SIGNAL REAR RH (-)      |
| 26           | BR            | SOUND SIGNAL REAR RH (+)      |

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| Connector No.  | B46       |
| Connector Name | WOOFER    |
| Connector Type | MS08FB-CS |



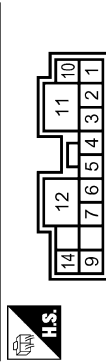
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | V             | SOUND SIGNAL WOOFER (-)     |
| 2            | SB            | SOUND SIGNAL WOOFER (+)     |
| 4            | GR            | WOOFER AMP. ON SIGNAL       |
| 5            | B             | GND                         |
| 6            | P             | BATTERY                     |

|    |    |                               |
|----|----|-------------------------------|
| 29 | L  | SOUND SIGNAL CENTER (+)       |
| 30 | O  | SOUND SIGNAL CENTER (-)       |
| 31 | LG | SOUND SIGNAL REAR DOOR RH (+) |
| 32 | Y  | SOUND SIGNAL REAR DOOR RH (-) |
| 33 | R  | SOUND SIGNAL FRONT RH (+)     |
| 34 | G  | SOUND SIGNAL FRONT RH (-)     |
| 35 | P  | SOUND SIGNAL FRONT LH (+)     |
| 36 | L  | SOUND SIGNAL FRONT LH (-)     |
| 37 | SB | MODE CHANGE SIGNAL            |

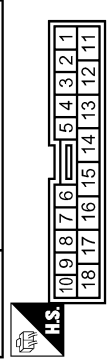
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | FRONT DOOR SQUAWKER LH (+)  |
| 2            | W             | FRONT DOOR SQUAWKER LH (-)  |
| 3            | LG            | FRONT DOOR SQUAWKER RH (-)  |
| 4            | V             | FRONT DOOR SQUAWKER RH (+)  |
| 5            | G             | FRONT DOOR WOOFER RH (+)    |
| 6            | R             | FRONT DOOR WOOFER RH (-)    |
| 7            | B             | GND                         |
| 9            | W             | FRONT DOOR WOOFER LH (-)    |
| 10           | Y             | BATTERY                     |
| 11           | GR            | BATTERY                     |
| 12           | B             | GND                         |

|     |        |        |
|-----|--------|--------|
| 47  | G      |        |
| 48  | Y      | SHIELD |
| 49  | P      |        |
| 50  | O      |        |
| 81  | SHIELD |        |
| 82  | G      |        |
| 83  | P      |        |
| 84  | L      |        |
| 85  | SHIELD |        |
| 86  | G      |        |
| 87  | R      |        |
| 88  | W      |        |
| 89  | B      |        |
| 90  | Y      |        |
| 99  | P      |        |
| 100 | L      |        |

|                |              |
|----------------|--------------|
| Connector No.  | B42          |
| Connector Name | BOSE AMP.    |
| Connector Type | SCA12FB-SJA2 |



|                |              |
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| Connector No.  | B2.B         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NSS   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | L             |                             |
| 17           | P             |                             |

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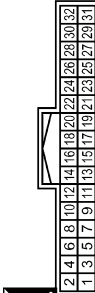
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**BOSE AUDIO WITHOUT NAVIGATION SYSTEM**

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| Connector No.  | B236                  |
| Connector Name | SATELLITE RADIO TUNER |
| Connector Type | A16FW                 |

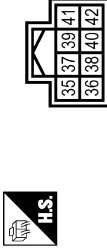


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| Connector No.  | B237             |
| Connector Name | TEL ADAPTER UNIT |
| Connector Type | TH32FW-NH        |



|    |   |                         |
|----|---|-------------------------|
| 19 | B | GND                     |
| 23 | B | CONTROL SIGNAL          |
| 24 | B | CONTROL SIGNAL          |
| 28 | P | VEHICLE SPEED (8-PULSE) |
| 29 | Y | MICROPHONE VCC          |

|                |                  |
|----------------|------------------|
| Connector No.  | B238             |
| Connector Name | TEL ADAPTER UNIT |
| Connector Type | TH48FW-NH        |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | G             | SOUND SIGNAL LH (-)         |
| 2            | R             | SOUND SIGNAL LH (+)         |
| 3            | W             | SOUND SIGNAL RH (-)         |
| 4            | B             | SOUND SIGNAL RH (+)         |
| 5            | SHIELD        | SHIELD                      |
| 6            | SHIELD        | SHIELD                      |
| 8            | G             | REQUEST (SAT->CONT)         |
| 9            | L             | COMM (SAT->CONT)            |
| 10           | P             | COMM (CONT->SAT)            |
| 12           | Y             | BATTERY                     |
| 16           | O             | ACC                         |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | V             | BATTERY                     |
| 2            | LG            | ACC                         |
| 3            | W             | IGNITION                    |
| 4            | B             | GND                         |
| 5            | SHIELD        | SHIELD                      |
| 6            | SHIELD        | SHIELD                      |
| 7            | BR            | MICROPHONE SIGNAL           |
| 8            | O             | MICROPHONE GND              |
| 9            | Y             | TEL VOICE SIGNAL (+)        |
| 10           | G             | TEL VOICE SIGNAL (-)        |
| 14           | B             | GND                         |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 35           | L             | AV COMM (H)                 |
| 36           | P             | AV COMM (L)                 |

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| Connector No.  | B471             |
| Connector Name | TEL ADAPTER UNIT |
| Connector Type | GT16C-1S-HU      |



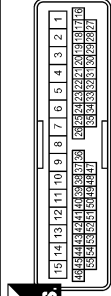
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| Connector No.  | B482                  |
| Connector Name | SATELLITE RADIO TUNER |
| Connector Type | -                     |



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| Connector No.  | B483                    |
| Connector Name | SATELLITE RADIO ANTENNA |
| Connector Type | GT16-1PP-HU             |



|                |              |
|----------------|--------------|
| Connector No.  | D1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH48FW-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | TEL ANTENNA                 |
| 34           | SHIELD        | SHIELD                      |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | SATELLITE ANTENNA           |
| 34           | SHIELD        | SHIELD                      |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 35           | W             | -                           |
| 37           | L             | -                           |



BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |            |
|----------------|------------|
| Connector No.  | D2         |
| Connector Name | TWEETER LH |
| Connector Type | TK02MBF-P  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

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| Connector No.  | D11                  |
| Connector Name | FRONT DOOR WOOFER LH |
| Connector Type | NS02FW-CS            |



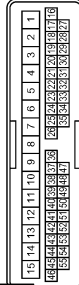
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | G             | -                           |
| 2            | R             | -                           |

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|----------------|------------------------|
| Connector No.  | D16                    |
| Connector Name | FRONT DOOR SQUAWKER LH |
| Connector Type | TK02FBR                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D31          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FY-CS/5  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 36           | W             | -                           |
| 37           | L             | -                           |

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|----------------|------------|
| Connector No.  | D32        |
| Connector Name | TWEETER RH |
| Connector Type | TK02MBF-P  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | D41                  |
| Connector Name | FRONT DOOR WOOFER RH |
| Connector Type | NS02FW-CS            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | G             | -                           |
| 2            | R             | -                           |

|                |                        |
|----------------|------------------------|
| Connector No.  | D46                    |
| Connector Name | FRONT DOOR SQUAWKER RH |
| Connector Type | TK02FBR                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |








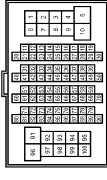








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| Connector No.  | D51          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MMY-NS8  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | LG            | -                           |
| 17           | Y             | -                           |

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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|-----------------------|---------------------------------|-----------------|---|---|--------------------------------|------------------------------|-----------------------------|--------------------------------|------------------------------|-----------------------------|
| Connector No.<br>D36  | REAR DOOR SPEAKER LH            | NS02FBR-CS      |  |  | Terminal No.<br>1<br>2         | Color of Wire<br>LG<br>Y     | Signal Name [Specification] | Terminal No.<br>1<br>2         | Color of Wire<br>L<br>P      | Signal Name [Specification] |
| Connector No.<br>D71  | WIRE TO WIRE                    | TK10MW-NS8      |  |   | Terminal No.<br>16<br>17       | Color of Wire<br>L<br>P      | Signal Name [Specification] | Terminal No.<br>1<br>2         | Color of Wire<br>L<br>P      | Signal Name [Specification] |
| Connector No.<br>D76  | REAR DOOR SPEAKER RH            | NS02FBR-CS      |    |    | Terminal No.<br>1<br>2         | Color of Wire<br>L<br>P      | Signal Name [Specification] | Terminal No.<br>36<br>92       | Color of Wire<br>O<br>LG     | Signal Name [Specification] |
| Connector No.<br>E106 | WIRE TO WIRE                    | TH80FY-CS16-TM4 |    |    | Terminal No.<br>36<br>92       | Color of Wire<br>O<br>LG     | Signal Name [Specification] | Terminal No.<br>30<br>31<br>41 | Color of Wire<br>R<br>R<br>O | Signal Name [Specification] |
| Connector No.<br>E107 | PARKING BRAKE SWITCH (WITH A/T) | TB01FW          |  |  | Terminal No.<br>1              | Color of Wire<br>O           | Signal Name [Specification] | Terminal No.<br>1              | Color of Wire<br>R           | Signal Name [Specification] |
| Connector No.<br>F51  | A/T ASSEMBLY                    | RK10FG-DGY      |  |  | Terminal No.<br>7              | Color of Wire<br>R           | Signal Name [Specification] | Terminal No.<br>30<br>31<br>41 | Color of Wire<br>R<br>R<br>O | Signal Name [Specification] |
| Connector No.<br>F56  | BACK-UP LAMP SWITCH             | RK02FB          |    |    | Terminal No.<br>1<br>2         | Color of Wire<br>R<br>O      | Signal Name [Specification] | Terminal No.<br>30<br>31<br>41 | Color of Wire<br>R<br>R<br>O | Signal Name [Specification] |
| Connector No.<br>F103 | WIRE TO WIRE                    | TK30FW-NS10     |    |    | Terminal No.<br>30<br>31<br>41 | Color of Wire<br>R<br>R<br>O | Signal Name [Specification] | Terminal No.<br>30<br>31<br>41 | Color of Wire<br>R<br>R<br>O | Signal Name [Specification] |

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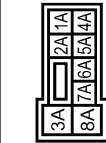
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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| Connector No.  | F157                              |
| Connector Name | TOM (TRANSMISSION CONTROL MODULE) |
| Connector Type | SP10FG                            |



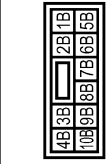
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|--------------|---|---------------|---|-----------------------------|--------------|
| Terminal No. | 7 | Color of Wire | L | Signal Name [Specification] | REV LAMP RLY |
|--------------|---|---------------|---|-----------------------------|--------------|

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| Connector No.  | M1               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS06FW-M2        |



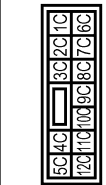
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| Terminal No. | 2A | Color of Wire | G | Signal Name [Specification] |  |
|              | 5A |               | L |                             |  |

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| Connector No.  | M2               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FW-CS        |



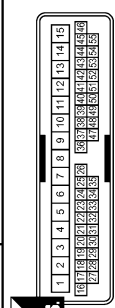
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| Terminal No. | 1B | Color of Wire | SB | Signal Name [Specification] |  |
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| Connector No.  | M3               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS        |



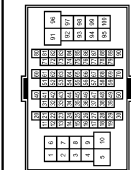
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| Terminal No. | 12C | Color of Wire | R | Signal Name [Specification] |  |
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| Connector No.  | M5           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH00MW-CS15  |



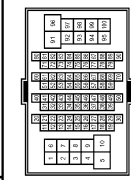
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| Terminal No. | 9  | Color of Wire | W | Signal Name [Specification] |  |
|              | 10 |               | B |                             |  |
|              | 36 |               | W |                             |  |
|              | 37 |               | L |                             |  |

|                |                 |
|----------------|-----------------|
| Connector No.  | M6              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH00MW-CS16-TM4 |



|              |    |               |   |                             |  |
|--------------|----|---------------|---|-----------------------------|--|
| Terminal No. | 36 | Color of Wire | O | Signal Name [Specification] |  |
|              | 92 |               | Y |                             |  |

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| Connector No.  | M7              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH00MW-CS16-TM4 |



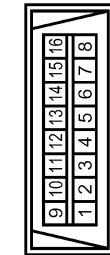
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| Terminal No. | 31 | Color of Wire | V      | Signal Name [Specification] |  |
|              | 32 |               | LG     |                             |  |
|              | 33 |               | SHIELD |                             |  |
|              | 34 |               | SB     |                             |  |
|              | 35 |               | BR     |                             |  |
|              | 36 |               | Y      |                             |  |
|              | 37 |               | SHIELD |                             |  |
|              | 40 |               | O      |                             |  |
|              | 41 |               | W      |                             |  |
|              | 42 |               | SHIELD |                             |  |
|              | 43 |               | R      |                             |  |

|              |    |               |        |                             |  |
|--------------|----|---------------|--------|-----------------------------|--|
| Terminal No. | 44 | Color of Wire | G      | Signal Name [Specification] |  |
|              | 45 |               | SHIELD |                             |  |
|              | 46 |               | SB     |                             |  |
|              | 98 |               | O      |                             |  |

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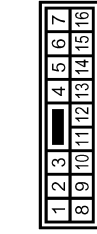
**BOSE AUDIO WITHOUT NAVIGATION SYSTEM**

|                |                     |
|----------------|---------------------|
| Connector No.  | M24                 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW-P            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6            | L             | -                           |
| 14           | P             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M25          |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MW-CS    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | BR            | -                           |
| 4            | R             | -                           |
| 5            | L             | -                           |
| 6            | LG            | -                           |
| 7            | B             | -                           |
| 10           | P             | -                           |
| 11           | L             | -                           |
| 12           | Y             | -                           |
| 13           | SB            | -                           |

|    |   |   |
|----|---|---|
| 14 | R | - |
| 15 | G | - |
| 16 | W | - |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M36                               |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY-TV                        |



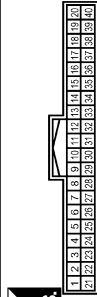
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24           | P             | -                           |
| 31           | L             | -                           |
| 33           | B             | -                           |

|                |                |
|----------------|----------------|
| Connector No.  | M63            |
| Connector Name | CENTER SPEAKER |
| Connector Type | TK02FBR        |



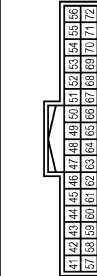
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | LG            | -                           |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M66                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH                  |



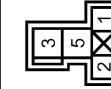
| Terminal No. | Color of Wire | Signal Name [Specification]    |
|--------------|---------------|--------------------------------|
| 28           | R             | VEHICLE SPEED SIGNAL (8-PULSE) |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M67                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH32FW-NH                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56           | L             | CAN-H                       |
| 72           | P             | CAN-L                       |

|                |                    |
|----------------|--------------------|
| Connector No.  | M69                |
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | MS02FL-M2-LC       |

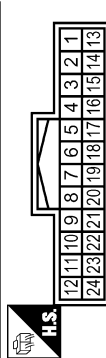


| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | W             | -                           |
| 3            | LG            | -                           |
| 5            | O             | -                           |

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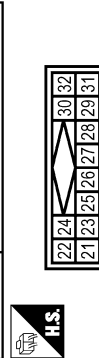
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M71                         |
| Connector Name | DISPLAY UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 2            | Y             | INVERTER VCC                |
| 3            | O             | SIGNAL VCC                  |
| 4            | Y             | AUX IMAGE GND               |
| 5            | Y             | SHIELD                      |
| 6            | L             | RGB (GREEN) SIGNAL          |
| 7            | L             | SHIELD                      |
| 8            | R             | HP                          |
| 9            | B             | RGB AREA (YS) SIGNAL        |
| 11           | Y             | COMM (CONT->DISP)           |
| 13           | BR            | INVERTER GND                |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M82                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | A12FW                          |

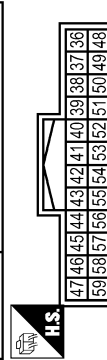


| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 21           | W             | SATELLITE SOUND SIGNAL LH (C) |
| 22           | B             | SATELLITE SOUND SIGNAL LH (C) |
| 23           | R             | SATELLITE SOUND SIGNAL RH (C) |
| 24           | G             | SATELLITE SOUND SIGNAL RH (C) |
| 25           | SHIELD        | SHIELD                        |
| 26           | SHIELD        | SHIELD                        |
| 27           | SB            | MODE CHANGE SIGNAL            |
| 28           | P             | REQUEST (SAT->CONT)           |
| 29           | G             | COMM (SAT->CONT)              |
| 30           | L             | COMM (CONT->SAT)              |

|    |        |                     |
|----|--------|---------------------|
| 14 | LG     | SIGNAL GND          |
| 15 | SR     | AUX IMAGE SIGNAL    |
| 16 | BR     | COMP SYNC           |
| 17 | G      | RGB (R-RED) SIGNAL  |
| 18 | D      | RGB (B-BLUE) SIGNAL |
| 19 | W      | RGB SYNC            |
| 20 | G      | VP                  |
| 21 | SHIELD | SHIELD              |
| 22 | BR     | COMM (DISP->CONT)   |
| 23 | SHIELD | SHIELD              |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 3            | L             | ACC                         |
| 6            | G             | AV COMM (H)                 |
| 8            | R             | AV COMM (L)                 |
| 9            | BR            | SW GND                      |
| 14           | SB            | EJECT SIGNAL                |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M83                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | SB            | AUX IMAGE SIGNAL            |
| 37           | V             | AUX IMAGE GND               |
| 38           | P             | RGB (B-BLUE) SIGNAL         |
| 39           | L             | RGB (G-GREEN) SIGNAL        |
| 40           | G             | RGB (R-RED) SIGNAL          |
| 41           | W             | RGB SYNC                    |
| 42           | SHIELD        | SHIELD                      |
| 43           | B             | RGB AREA (YS) SIGNAL        |
| 44           | BR            | COMM (DISP->CONT)           |
| 45           | R             | HP                          |
| 46           | LG            | SIGNAL GND                  |

|                |                      |
|----------------|----------------------|
| Connector No.  | M72                  |
| Connector Name | MULTIFUNCTION SWITCH |
| Connector Type | TH16FW-NH            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6            | P             | STRG SW A                   |
| 7            | V             | ACC                         |
| 9            | L             | ILLUMINATION                |
| 15           | B             | STRG SW GND                 |
| 16           | L             | STRG SW B                   |
| 19           | Y             | BATTERY                     |
| 20           | B             | GND                         |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M84                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH16FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 66           | G             | AUX IMAGE SIGNAL            |
| 73           | SHIELD        | SHIELD                      |
| 74           | R             | AUX IMAGE GND               |

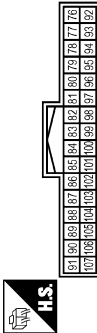
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**BOSE AUDIO WITHOUT NAVIGATION SYSTEM**

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M85                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification]    |
|--------------|---------------|--------------------------------|
| 79           | P             | TEL VOICE SIGNAL (-)           |
| 80           | L             | TEL VOICE SIGNAL (+)           |
| 81           | SHIELD        | SHIELD                         |
| 82           | G             | iPod SOUND SIGNAL RH (-)       |
| 83           | B             | iPod SOUND SIGNAL RH (+)       |
| 84           | SHIELD        | SHIELD                         |
| 85           | B             | GND                            |
| 86           | L             | CAN-H                          |
| 87           | P             | CAN-L                          |
| 88           | V             | AV COMM (H) [With BOSE system] |
| 89           | LG            | AV COMM (L) [With BOSE system] |

|     |        |                          |
|-----|--------|--------------------------|
| 90  | SB     | AV COMM (H)              |
| 91  | Y      | AV COMM (L)              |
| 95  | R      | AUX SOUND SIGNAL RH (+)  |
| 96  | W      | AUX SOUND SIGNAL LH (+)  |
| 97  | B      | SHIELD                   |
| 98  | W      | iPod SOUND SIGNAL LH (-) |
| 99  | R      | iPod SOUND SIGNAL LH (+) |
| 100 | SHIELD | SHIELD                   |
| 101 | BR     | SW GND                   |
| 103 | SB     | EJECT SIGNAL             |
| 104 | G      | IGNITION                 |
| 105 | O      | REVERSE                  |
| 106 | SB     | PARKING BRAKE            |
| 107 | GR     | VEHICLE SPEED (3-PULSE)  |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M86                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH12FW-NH                      |



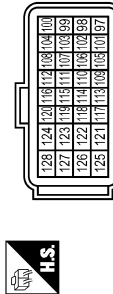
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 108          | BR            | SOUND SIGNAL REAR RH (+)    |
| 109          | R             | SOUND SIGNAL FRONT RH (+)   |
| 110          | SB            | AMP. ON SIGNAL              |
| 111          | B             | SHIELD                      |
| 112          | V             | SOUND SIGNAL REAR LH (+)    |
| 113          | O             | SOUND SIGNAL FRONT LH (+)   |
| 114          | Y             | SOUND SIGNAL REAR RH (-)    |
| 115          | G             | SOUND SIGNAL FRONT RH (-)   |
| 118          | LG            | SOUND SIGNAL REAR LH (-)    |
| 119          | W             | SOUND SIGNAL FRONT LH (-)   |

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| Connector No.  | M106         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MF-NSB   |



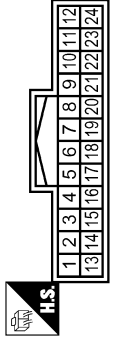
| Terminal No. | Color of Wire | Signal Name [Specification]  |
|--------------|---------------|------------------------------|
| 1            | B             | - [Without rear view camera] |
| 2            | W             | - [Without rear view camera] |
| 3            | R             | - [Without rear view camera] |

|                |                    |
|----------------|--------------------|
| Connector No.  | M107               |
| Connector Name | ECM                |
| Connector Type | RI124GY-R28-R-LH-Z |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 113          | P             | VEHGAN-LI                   |
| 114          | L             | VEHGAN-HI                   |

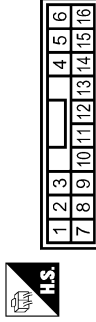
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| Connector No.  | M111         |
| Connector Name | iPod ADAPTER |
| Connector Type | TH24FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | iPod SOUND SIGNAL LH (-)    |
| 2            | B             | iPod SOUND SIGNAL RH (+)    |
| 3            | V             | ACC                         |
| 4            | R             | AV COMM (L)                 |
| 5            | Y             | BATTERY                     |
| 8            | W             | CHARGE POWER                |
| 9            | P             | COMM (iPod ADAPTER->iPod)   |
| 10           | L             | COMM (iPod->iPod ADAPTER)   |
| 11           | O             | ACCESSORY IDENTITY          |
| 12           | W             | iPod SOUND SIGNAL RH (-)    |
| 13           | W             | iPod SOUND SIGNAL LH (+)    |

|    |        |                             |
|----|--------|-----------------------------|
| 14 | G      | iPod SOUND SIGNAL RH (-)    |
| 15 | SHIELD | SHIELD                      |
| 16 | G      | AV COMM (H)                 |
| 17 | BR     | SHIELD                      |
| 19 | SHIELD | SHIELD                      |
| 21 | W      | iPod CONNECTION RECOGNITION |
| 22 | G      | ACCESSORY DETECT            |
| 23 | R      | iPod SOUND SIGNAL GND       |
| 24 | B      | iPod SOUND SIGNAL LH (+)    |

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| Connector No.  | M112                 |
| Connector Name | iPod SIDE (WITH A/T) |
| Connector Type | IP16FGY              |

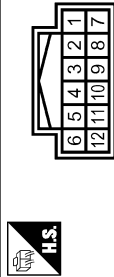


| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | iPod SOUND SIGNAL LH (+)    |
| 2            | R             | iPod SOUND SIGNAL GND       |
| 5            | L             | COMM (iPod->iPod ADAPTER)   |
| 6            | P             | COMM (iPod ADAPTER->iPod)   |
| 7            | W             | iPod SOUND SIGNAL RH (-)    |
| 9            | W             | iPod CONNECTION RECOGNITION |
| 10           | BR            | GND                         |
| 12           | W             | CHARGE POWER                |
| 14           | SHIELD        | SHIELD                      |
| 15           | G             | ACCESSORY DETECT            |
| 16           | O             | ACCESSORY IDENTITY          |

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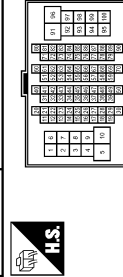
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| 12 | P | - |
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| Connector No.  | M114         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12FW-NH    |



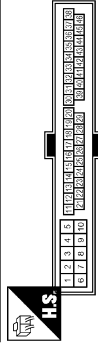
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | G             | -                           |
| 3            | O             | -                           |
| 4            | SHIELD        | -                           |
| 5            | W             | -                           |
| 6            | B             | -                           |
| 7            | R             | -                           |
| 8            | BR            | -                           |
| 9            | W             | -                           |
| 10           | W             | -                           |
| 11           | SHIELD        | -                           |

|                |                |
|----------------|----------------|
| Connector No.  | M117           |
| Connector Name | WIRE TO WIRE   |
| Connector Type | TH6MW-CS16-TM4 |



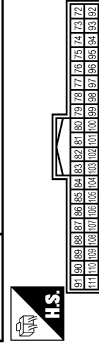
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | SB            | -                           |
| 32           | Y             | -                           |
| 33           | V             | -                           |
| 34           | LG            | -                           |
| 40           | Y             | -                           |
| 41           | G             | -                           |
| 42           | LG            | -                           |
| 43           | B             | -                           |
| 44           | R             | -                           |
| 45           | W             | -                           |
| 46           | SHIELD        | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M116         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK38MW-NS/D  |



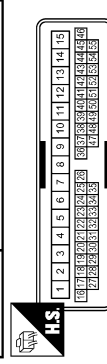
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 30           | LG            | -                           |
| 31           | W             | -                           |
| 41           | O             | -                           |

|                |                           |
|----------------|---------------------------|
| Connector No.  | M122                      |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH                 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 90           | P             | CAN-L                       |
| 91           | L             | CAN-H                       |

|                |              |
|----------------|--------------|
| Connector No.  | M124         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 36           | R             | -                           |
| 37           | BR            | -                           |

|     |        |   |
|-----|--------|---|
| 47  | P      | - |
| 48  | L      | - |
| 49  | SHIELD | - |
| 50  | Y      | - |
| 80  | W      | - |
| 81  | SHIELD | - |
| 82  | P      | - |
| 83  | L      | - |
| 84  | G      | - |
| 85  | SHIELD | - |
| 86  | W      | - |
| 87  | B      | - |
| 88  | R      | - |
| 89  | G      | - |
| 90  | Y      | - |
| 99  | P      | - |
| 100 | L      | - |

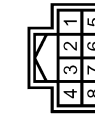
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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|----------------|----------------------------------|
| Connector No.  | M154                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH A/T) |
| Connector Type | A08FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | SOUND SIGNAL RH (+)         |
| 2            | B             | SOUND SIGNAL GND            |
| 3            | W             | SOUND SIGNAL LH (+)         |
| 7            | G             | AUX IMAGE SIGNAL            |
| 8            | R             | AUX IMAGE GND               |

|                |              |
|----------------|--------------|
| Connector No.  | M155         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | R             | -                           |
| 4            | W             | -                           |
| 5            | B             | -                           |
| 6            | B             | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

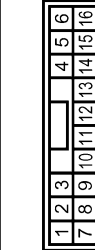
|                |              |
|----------------|--------------|
| Connector No.  | M181         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MM-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | G             | -                           |
| 3            | O             | -                           |
| 4            | SHIELD        | -                           |
| 5            | GR            | -                           |
| 6            | BR            | -                           |
| 7            | W             | -                           |
| 8            | BR            | -                           |
| 9            | L             | -                           |
| 10           | W             | -                           |
| 11           | SHIELD        | -                           |
| 12           | -             | -                           |

|    |   |
|----|---|
| 12 | P |
|----|---|

|                |                      |
|----------------|----------------------|
| Connector No.  | M182                 |
| Connector Name | iPod SIDE (WITH M/T) |
| Connector Type | IP08FGY              |



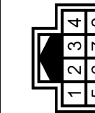
| Terminal No. | Color of Wire | Signal Name [Specification]     |
|--------------|---------------|---------------------------------|
| 1            | BR            | iPod SOUND SIGNAL LH (+)        |
| 2            | W             | iPod SOUND SIGNAL GND           |
| 5            | L             | COMM (iPod->iPod ADAPTER)       |
| 6            | P             | COMM (iPod ADAPTER->iPod)       |
| 7            | GR            | iPod SOUND SIGNAL RH (+)        |
| 9            | W             | iPod CONNECTION RECOGNITION GND |
| 12           | L             | CHARGE POWER                    |
| 14           | SHIELD        | SHIELD                          |
| 15           | G             | ACCESSORY DETECT                |
| 16           | O             | ACCESSORY IDENTITY              |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M303                              |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY                           |



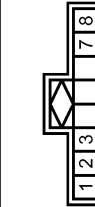
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 14           | W             | -                           |
| 15           | L             | -                           |
| 17           | BR            | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M361         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08MM-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | BR            | - [Without NAV]             |
| 4            | Y             | - [Without NAV]             |
| 5            | SHIELD        | -                           |
| 6            | SHIELD        | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M362                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH M/T) |
| Connector Type | A08FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | BR            | - [Without NAV]             |
| 2            | B             | -                           |
| 3            | Y             | - [Without NAV]             |
| 7            | G             | -                           |
| 8            | R             | -                           |



BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M370                           |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | GT13SH-2 / S-HU                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | FM SUB                      |
| 34           | -             | AM-FM MAIN                  |
| 35           | -             | ANTENNA AMP. ON SIGNAL      |

|                |                 |
|----------------|-----------------|
| Connector No.  | M375            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | GT13SC-2 / S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |                   |
|----------------|-------------------|
| Connector No.  | M376              |
| Connector Name | WIRE TO WIRE      |
| Connector Type | GT13SCH-2 / PP-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | M378            |
| Connector Name | ANTENNA AMP.    |
| Connector Type | GT13SC-1 / S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | ANTENNA AMP. ON SIGNAL      |
| 2            | -             | AM-FM MAIN                  |

|                |                     |
|----------------|---------------------|
| Connector No.  | M379                |
| Connector Name | GLASS ANTENNA (SUB) |
| Connector Type | P01FB-A             |



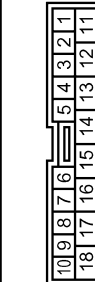
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

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| Connector No.  | M381                 |
| Connector Name | GLASS ANTENNA (MAIN) |
| Connector Type | P01FB-A              |



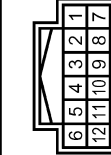
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | R1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TR10FW-NSS   |



| Terminal No. | Color of Wire | Signal Name [Specification]  |
|--------------|---------------|------------------------------|
| 1            | O             | - [Without rear view camera] |
| 2            | W             | - [Without rear view camera] |
| 3            | SHIELD        | -                            |

|                |              |
|----------------|--------------|
| Connector No.  | R2           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TR12FW-NH    |



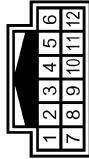
| Terminal No. | Color of Wire | Signal Name [Specification]  |
|--------------|---------------|------------------------------|
| 3            | SHIELD        | -                            |
| 4            | O             | - [Without rear view camera] |
| 5            | W             | - [Without rear view camera] |

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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|----------------|--------------|
| Connector No.  | R11          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | SHIELD        | -                           |
| 4            | R             | -                           |
| 5            | G             | -                           |

|                |            |
|----------------|------------|
| Connector No.  | R17        |
| Connector Name | MICROPHONE |
| Connector Type | TKGQFW     |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | MICROPHONE SIGNAL           |
| 2            | SHIELD        | SHIELD                      |
| 4            | G             | MICROPHONE VCC              |

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# IPOD ADAPTER

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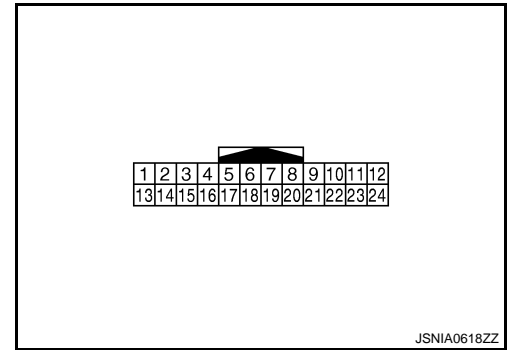
[BOSE AUDIO WITHOUT NAVIGATION]

## IPOD ADAPTER

Reference Value

INFOID:000000004238631

TERMINAL LAYOUT



PHYSICAL VALUES

| Terminal<br>(Wire color) |           | Description                    |                  | Condition                 |                                 | Reference value<br>(Approx.)                |
|--------------------------|-----------|--------------------------------|------------------|---------------------------|---------------------------------|---|
| +                        | -         | Signal name                    | Input/<br>Output |                           |                                 |   |
| 1<br>(R)                 | 13<br>(W) | iPod sound signal LH           | Output           | Ignition<br>switch<br>ON  | When iPod mode is select-<br>ed | <p style="text-align: right;">SKIB3609E</p> |
| 2<br>(B)                 | 14<br>(G) | iPod sound signal RH           | Output           | Ignition<br>switch<br>ON  | When iPod mode is select-<br>ed | <p style="text-align: right;">SKIB3609E</p> |
| 3<br>(V)                 | Ground    | ACC power supply               | Input            | Ignition<br>switch<br>ACC | —                               | Battery voltage                             |
| 4<br>(R)                 | —         | AV communication signal<br>(L) | Input/<br>Output | —                         | —                               | —   |
| 5<br>(Y)                 | Ground    | Battery power supply           | Input            | Ignition<br>switch<br>OFF | —                               | Battery voltage                             |
| 8<br>(W)                 | Ground    | iPod battery charge            | Output           | Ignition<br>switch<br>ON  | Connected to iPod®              | 12 V  |

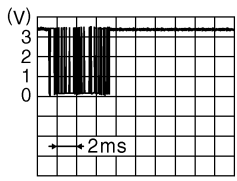
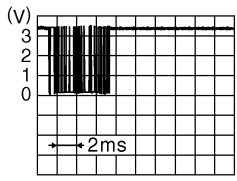
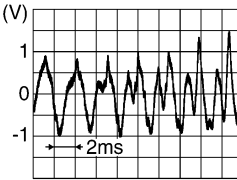
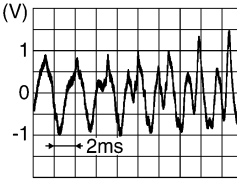
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# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

| Terminal<br>(Wire color) |           | Description                                  |                  | Condition                |   | Reference value<br>(Approx.)   |
|--------------------------|-----------|--|------------------|--------------------------|---|--|
| +                        | -         | Signal name                                  | Input/<br>Output |                          |   |  |
| 9<br>(P)                 | Ground    | Communication signal<br>(iPod adapter→iPod®) | Output           | Ignition<br>switch<br>ON | The wave pattern is displayed just after iPod connection. |  <p style="text-align: right; font-size: small;">JPNIA0462GB</p> <p><b>NOTE:</b><br/>After the wave pattern display, the value continues Approx 3.3 V</p> |
| 10<br>(L)                | Ground    | Communication signal<br>(iPod®→iPod adapter) | Input            | Ignition<br>switch<br>ON | Connected to iPod®  |  <p style="text-align: right; font-size: small;">JPNIA0462GB</p>  |
| 11<br>(O)                | Ground    | ACCESSORY-IDENTIFY                           | —                | Ignition<br>switch<br>ON | Connected to iPod®  | 0 V  |
| 12<br>(W)                | 23<br>(R) | iPod sound signal RH                         | Input            | Ignition<br>switch<br>ON | When iPod mode is selected                                |  <p style="text-align: right; font-size: small;">SKIB3609E</p>  |
| 15                       | —         | Shield                                       | —                | —                        | —   | —  |
| 16<br>(G)                | —         | AV communication signal<br>(H)               | Input/<br>Output | —                        | —   | —  |
| 17<br>(BR)               | Ground    | GND  | —                | Ignition<br>switch<br>ON | —   | 0 V  |
| 19                       | —         | Shield                                       | —                | —                        | —   | —  |
| 21<br>(W)                | Ground    | iPod connection recognition signal           | Input            | Ignition<br>switch<br>ON | Not connected to iPod®                                    | 4 V  |
|                          |           |  |                  |                          | Connected to iPod®  | 0 V  |
| 22<br>(G)                | Ground    | ACCESSORY-DETECT                             | —                | Ignition<br>switch<br>ON | Connected to iPod®  | 0 V  |
| 24<br>(B)                | 23<br>(W) | iPod sound signal LH                         | Input            | Ignition<br>switch<br>ON | When iPod mode is selected                                |  <p style="text-align: right; font-size: small;">SKIB3609E</p>  |

# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

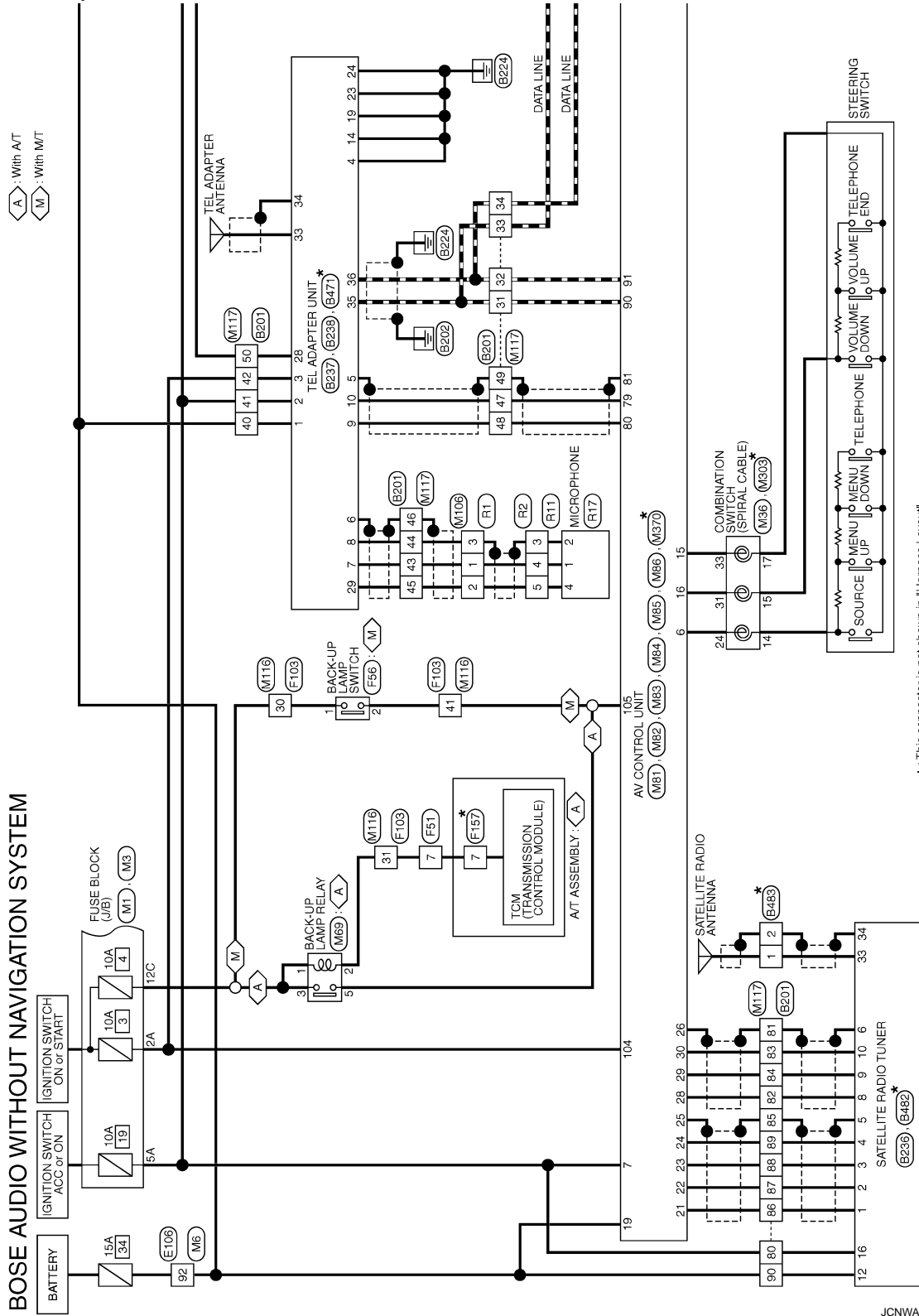
[BOSE AUDIO WITHOUT NAVIGATION]

## Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

INFOID:000000004467648

**NOTE:**

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.



\*: This connector is not shown in "Harness Layout".

2008/08/07

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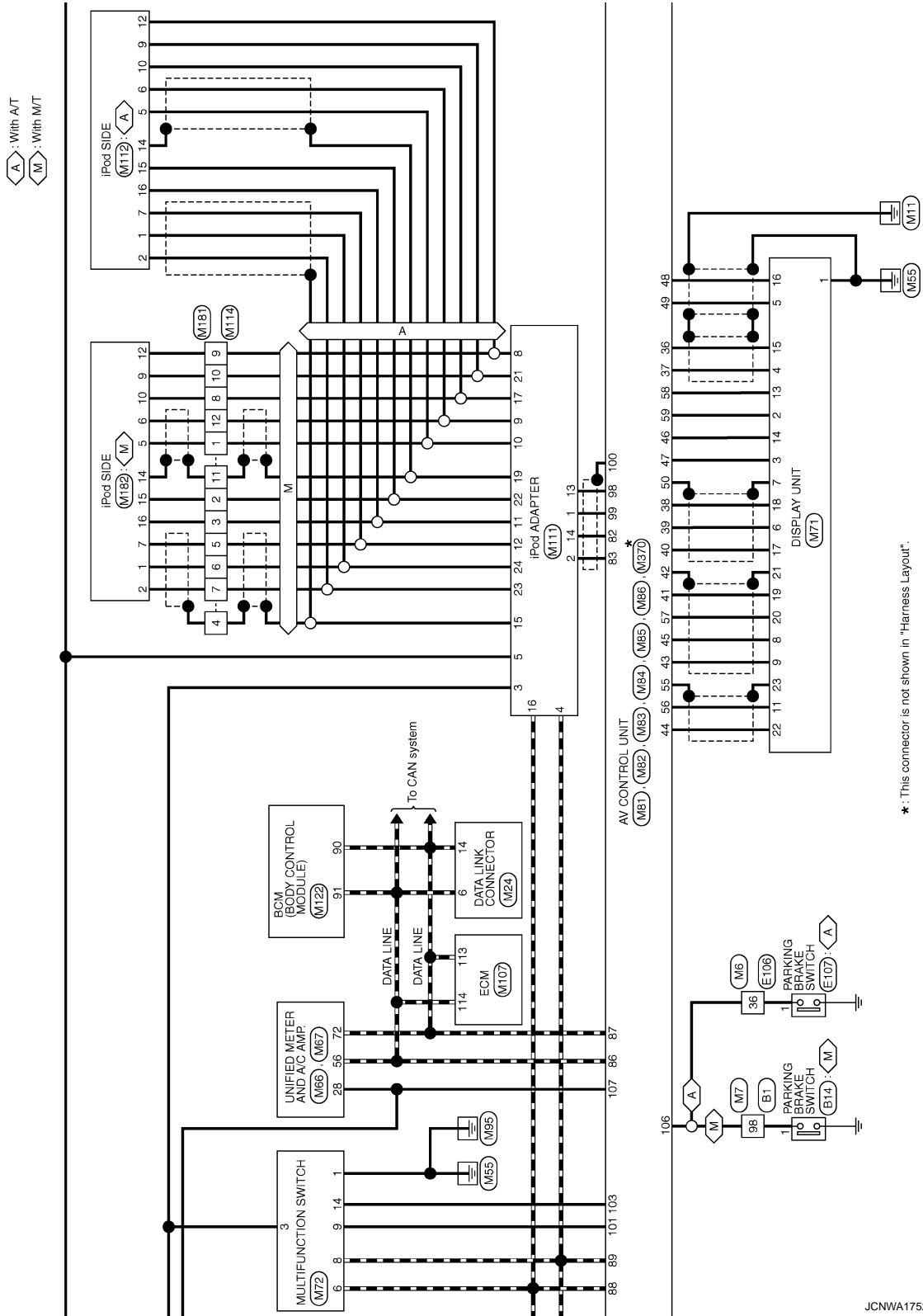
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# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

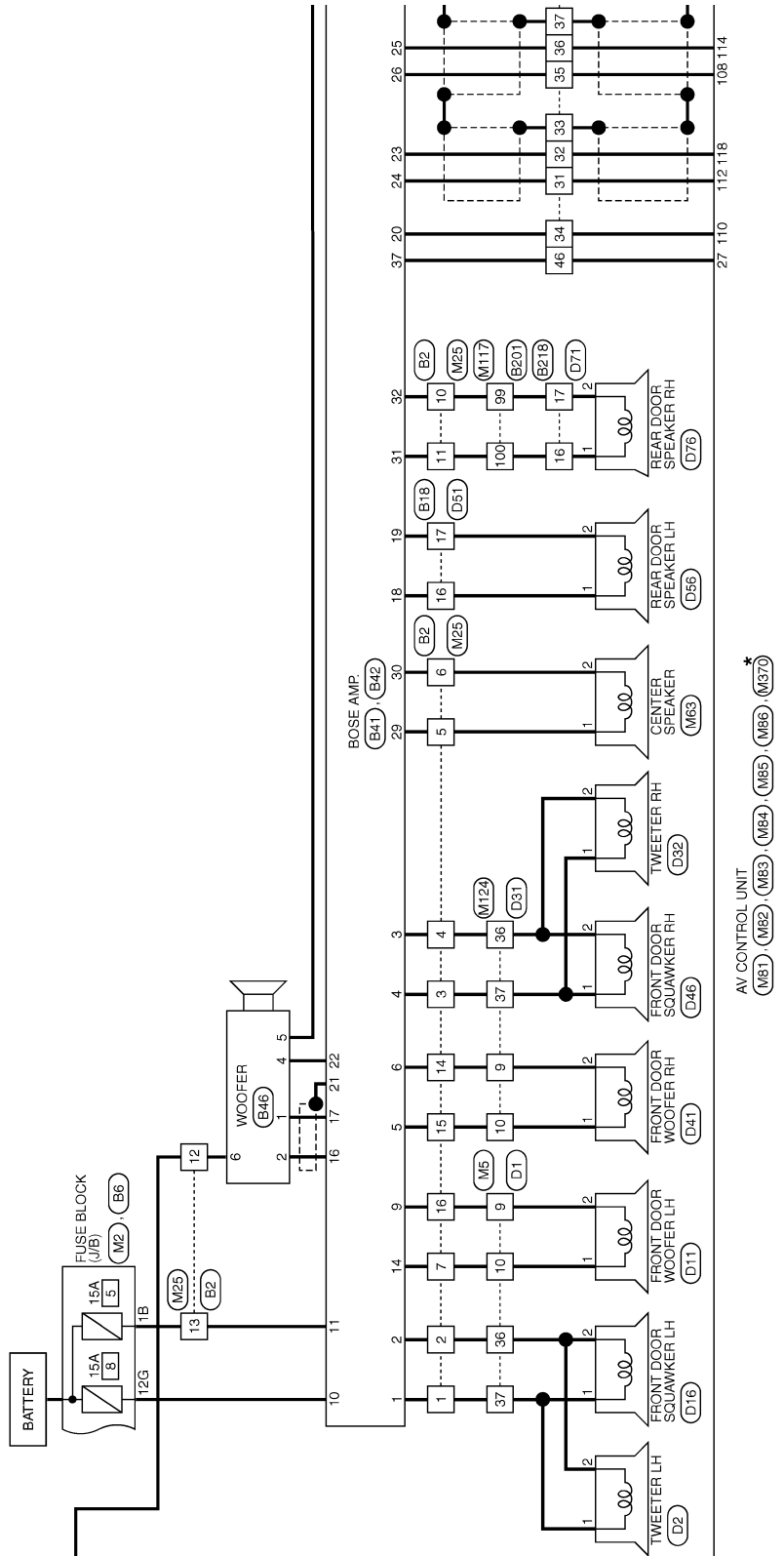


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# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]



\*: This connector is not shown in "Harness Layout".

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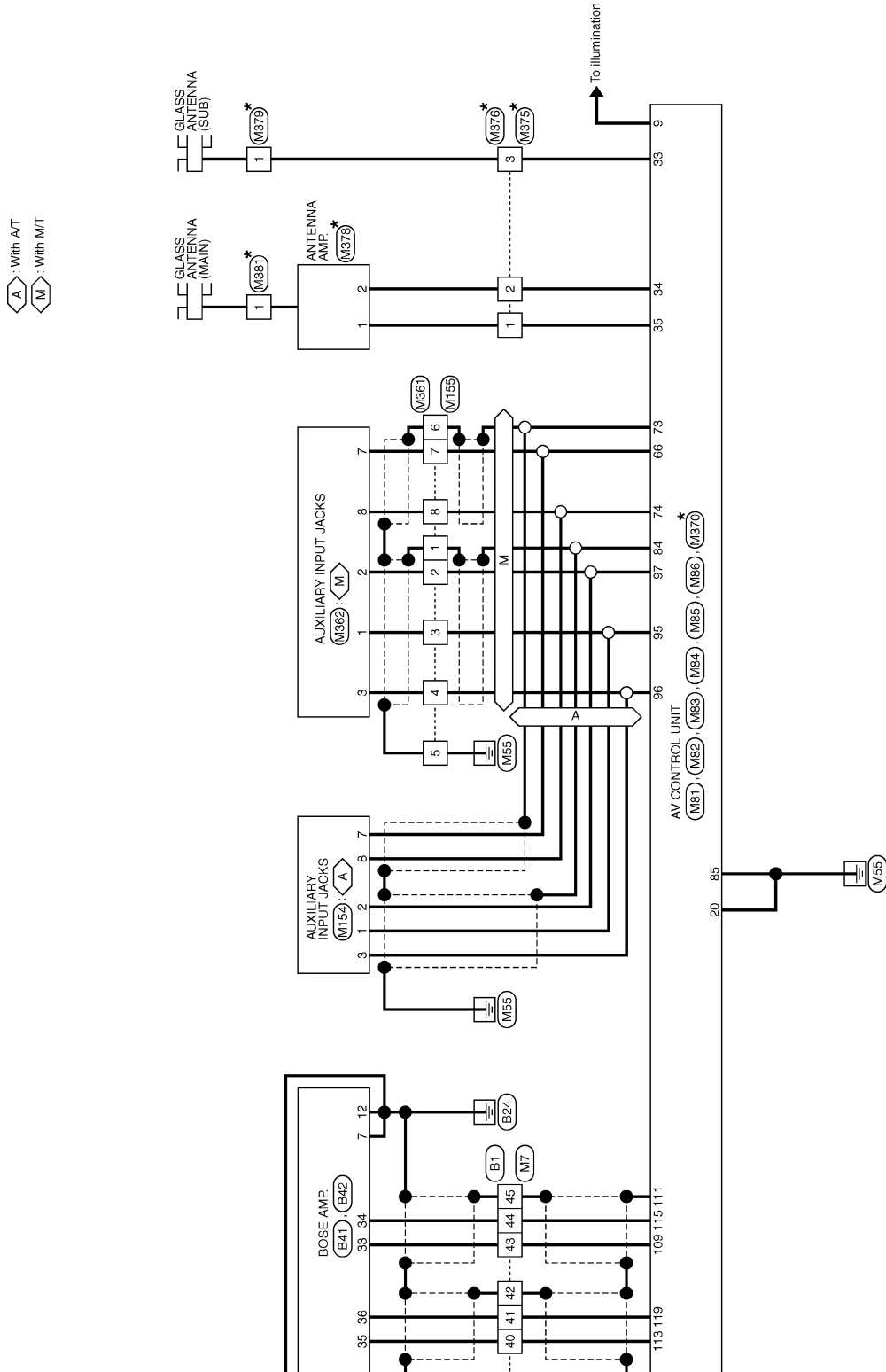
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# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]



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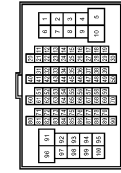
# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                 |
|----------------|-----------------|
| Connector No.  | B1              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH00FW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | V             | -                           |
| 32           | SB            | -                           |
| 33           | SHIELD        | -                           |
| 34           | W             | -                           |
| 35           | BR            | -                           |
| 36           | Y             | -                           |
| 37           | SHIELD        | -                           |
| 40           | P             | -                           |
| 41           | L             | -                           |
| 42           | SHIELD        | -                           |
| 43           | R             | -                           |

|    |        |   |
|----|--------|---|
| 44 | G      | - |
| 45 | SHIELD | - |
| 46 | SB     | - |
| 98 | V      | - |

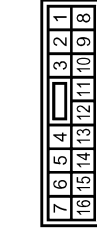


|                |                  |
|----------------|------------------|
| Connector No.  | B6               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | MS12FBF-CS       |



|              |     |   |   |
|--------------|-----|---|---|
| Terminal No. | 12G | Y | - |
|--------------|-----|---|---|

|                |              |
|----------------|--------------|
| Connector No.  | B2           |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16FW-CS    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | V             | -                           |
| 4            | LG            | -                           |
| 5            | L             | -                           |
| 6            | O             | -                           |
| 7            | B             | -                           |
| 10           | Y             | -                           |
| 11           | LG            | -                           |
| 12           | P             | -                           |
| 13           | GR            | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | B18          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TR10FW-NS8   |



|              |    |   |                      |
|--------------|----|---|----------------------|
| Terminal No. | 16 | L | -                    |
| 17           | P  | - | - [With BOSE system] |

|    |   |   |
|----|---|---|
| 14 | R | - |
| 15 | G | - |
| 16 | W | - |

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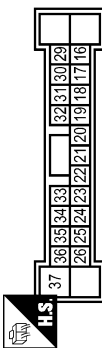
# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

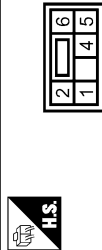
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |               |
|----------------|---------------|
| Connector No.  | B41           |
| Connector Name | BOSE AMP.     |
| Connector Type | SCA19FBR-SG44 |



| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 16           | SB            | SOUND SIGNAL WOOFER (-)       |
| 17           | V             | SOUND SIGNAL WOOFER (-)       |
| 18           | L             | SOUND SIGNAL REAR DOOR LH (+) |
| 19           | P             | SOUND SIGNAL REAR DOOR LH (-) |
| 20           | W             | AMP. ON SIGNAL                |
| 21           | SHIELD        | SHIELD                        |
| 22           | GR            | WOOFER AMP. ON SIGNAL         |
| 23           | SB            | SOUND SIGNAL REAR LH (-)      |
| 24           | V             | SOUND SIGNAL REAR LH (+)      |
| 25           | Y             | SOUND SIGNAL REAR RH (-)      |
| 26           | BR            | SOUND SIGNAL REAR RH (+)      |

|                |            |
|----------------|------------|
| Connector No.  | B46        |
| Connector Name | WOOFER     |
| Connector Type | NS08FBR-CS |



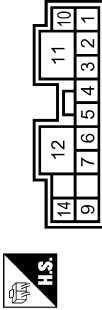
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | V             | SOUND SIGNAL WOOFER (-)     |
| 2            | SB            | SOUND SIGNAL WOOFER (+)     |
| 4            | GR            | WOOFER AMP. ON SIGNAL       |
| 5            | B             | GND                         |
| 6            | P             | BATTERY                     |

|    |    |                               |
|----|----|-------------------------------|
| 29 | L  | SOUND SIGNAL CENTER (+)       |
| 30 | O  | SOUND SIGNAL CENTER (-)       |
| 31 | LG | SOUND SIGNAL REAR DOOR RH (+) |
| 32 | Y  | SOUND SIGNAL REAR DOOR RH (-) |
| 33 | R  | SOUND SIGNAL FRONT RH (+)     |
| 34 | G  | SOUND SIGNAL FRONT RH (-)     |
| 35 | P  | SOUND SIGNAL FRONT LH (+)     |
| 36 | L  | SOUND SIGNAL FRONT LH (-)     |
| 37 | SB | MODE CHANGE SIGNAL            |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | FRONT DOOR SQUAWKER LH (+)  |
| 2            | W             | FRONT DOOR SQUAWKER LH (-)  |
| 3            | LG            | FRONT DOOR SQUAWKER RH (-)  |
| 4            | V             | FRONT DOOR SQUAWKER RH (+)  |
| 5            | G             | FRONT DOOR WOOFER RH (+)    |
| 6            | R             | FRONT DOOR WOOFER RH (-)    |
| 7            | B             | GND                         |
| 9            | Y             | FRONT DOOR WOOFER LH (-)    |
| 10           | W             | BATTERY                     |
| 11           | GR            | BATTERY                     |
| 12           | B             | GND                         |

|     |        |   |
|-----|--------|---|
| 47  | G      | - |
| 48  | Y      | - |
| 49  | SHIELD | - |
| 50  | P      | - |
| 80  | O      | - |
| 81  | SHIELD | - |
| 82  | G      | - |
| 83  | P      | - |
| 84  | L      | - |
| 85  | SHIELD | - |
| 86  | G      | - |
| 87  | R      | - |
| 88  | W      | - |
| 89  | B      | - |
| 90  | Y      | - |
| 99  | P      | - |
| 100 | L      | - |

|                |               |
|----------------|---------------|
| Connector No.  | B42           |
| Connector Name | BOSE AMP.     |
| Connector Type | SCA12FBR-SJA2 |



|                |              |
|----------------|--------------|
| Connector No.  | B218         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10PW-NSS   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | L             | -                           |
| 17           | P             | -                           |

JCNWA1756GE

# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                       |
|----------------|-----------------------|
| Connector No.  | B236                  |
| Connector Name | SATELLITE RADIO TUNER |
| Connector Type | TA6FW                 |



|   |   |   |    |    |    |    |    |    |    |
|---|---|---|----|----|----|----|----|----|----|
| 2 | 4 | 6 | 12 | 14 | 16 |    |    |    |    |
| 1 | 3 | 5 | 7  | 8  | 9  | 10 | 11 | 13 | 15 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | G             | SOUND SIGNAL LH (-)         |
| 2            | R             | SOUND SIGNAL LH (+)         |
| 3            | W             | SOUND SIGNAL RH (-)         |
| 4            | B             | SOUND SIGNAL RH (+)         |
| 5            | SHIELD        | SHIELD                      |
| 6            | SHIELD        | SHIELD                      |
| 8            | G             | REQUEST (SAT->CONT)         |
| 9            | L             | COMM (SAT->CONT)            |
| 10           | P             | COMM (CONT->SAT)            |
| 12           | Y             | BATTERY                     |
| 16           | O             | ACC                         |

|                |                  |
|----------------|------------------|
| Connector No.  | B471             |
| Connector Name | TEL ADAPTER UNIT |
| Connector Type | GT16C-IS-HU      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | TEL ANTENNA                 |
| 34           | SHIELD        | SHIELD                      |

|                |                  |
|----------------|------------------|
| Connector No.  | B237             |
| Connector Name | TEL ADAPTER UNIT |
| Connector Type | TH22FW-NH        |



|   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |
|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|
| 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 |
| 1 | 3 | 5 | 7 | 9  | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 27 | 29 | 31 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | V             | BATTERY                     |
| 2            | LG            | ACC                         |
| 3            | W             | IGNITION                    |
| 4            | B             | GND                         |
| 5            | SHIELD        | SHIELD                      |
| 6            | SHIELD        | SHIELD                      |
| 7            | BR            | MICROPHONE SIGNAL           |
| 8            | O             | MICROPHONE GND              |
| 9            | Y             | TEL VOICE SIGNAL (+)        |
| 10           | G             | TEL VOICE SIGNAL (-)        |
| 14           | B             | GND                         |

|                |                       |
|----------------|-----------------------|
| Connector No.  | B482                  |
| Connector Name | SATELLITE RADIO TUNER |
| Connector Type | -                     |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | SATELLITE ANTENNA           |
| 34           | SHIELD        | SHIELD                      |

|    |   |                         |
|----|---|-------------------------|
| 19 | B | GND                     |
| 23 | B | CONTROL SIGNAL          |
| 24 | B | CONTROL SIGNAL          |
| 28 | P | VEHICLE SPEED (8-PULSE) |
| 29 | Y | MICROPHONE VCC          |

|                |                  |
|----------------|------------------|
| Connector No.  | B238             |
| Connector Name | TEL ADAPTER UNIT |
| Connector Type | TH48FW-NH        |



|    |    |    |    |
|----|----|----|----|
| 35 | 37 | 39 | 41 |
| 36 | 38 | 40 | 42 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 35           | L             | AV COMM (H)                 |
| 36           | P             | AV COMM (L)                 |

|                |              |
|----------------|--------------|
| Connector No.  | D1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH48FW-CS15  |



|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 15 | 14 | 13 | 12 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3  | 2  | 1  |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 35           | W             | -                           |
| 37           | L             | -                           |

|                |                         |
|----------------|-------------------------|
| Connector No.  | B483                    |
| Connector Name | SATELLITE RADIO ANTENNA |
| Connector Type | GT16-IPP-HU             |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

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# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |            |
|----------------|------------|
| Connector No.  | D2         |
| Connector Name | TWEETER LH |
| Connector Type | TKQ2MBR-P  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | D11                  |
| Connector Name | FRONT DOOR WOOFER LH |
| Connector Type | NSQ2FW-CS            |



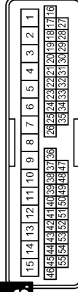
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | G             | -                           |
| 2            | R             | -                           |

|                |                        |
|----------------|------------------------|
| Connector No.  | D16                    |
| Connector Name | FRONT DOOR SQUAWKER LH |
| Connector Type | TKQ2FBR                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D31          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH4QFY-CS/5  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 36           | W             | -                           |
| 37           | L             | -                           |

|                |            |
|----------------|------------|
| Connector No.  | D32        |
| Connector Name | TWEETER RH |
| Connector Type | TKQ2MBR-P  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | D41                  |
| Connector Name | FRONT DOOR WOOFER RH |
| Connector Type | NSQ2FW-CS            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | G             | -                           |
| 2            | R             | -                           |

|                |                        |
|----------------|------------------------|
| Connector No.  | D46                    |
| Connector Name | FRONT DOOR SQUAWKER RH |
| Connector Type | TKQ2FBR                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D51          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MP-NS    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | LG            | -                           |
| 17           | Y             | -                           |

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# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                      |
|----------------|----------------------|
| Connector No.  | D56                  |
| Connector Name | REAR DOOR SPEAKER LH |
| Connector Type | NS02FBR-CS           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | LG            | -                           |
| 2            | Y             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D71          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MW-NS    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | L             | -                           |
| 17           | P             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | D76                  |
| Connector Name | REAR DOOR SPEAKER RH |
| Connector Type | NS02FBR-CS           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | P             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | E106            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH80FW-CS/6-TM4 |



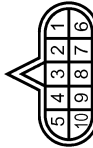
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | O             | -                           |
| 92           | LG            | -                           |

|                |                                 |
|----------------|---------------------------------|
| Connector No.  | E107                            |
| Connector Name | PARKING BRAKE SWITCH (WITH A/T) |
| Connector Type | TB01FW                          |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | O             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | F51          |
| Connector Name | A/T ASSEMBLY |
| Connector Type | RK10FG-DGY   |



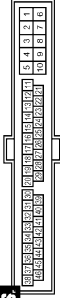
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 7            | R             | -                           |

|                |                     |
|----------------|---------------------|
| Connector No.  | F56                 |
| Connector Name | BACK-UP LAMP SWITCH |
| Connector Type | RK02FB              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | O             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | F103         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK38FW-NS10  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 30           | R             | -                           |
| 31           | R             | -                           |
| 41           | O             | -                           |

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A  
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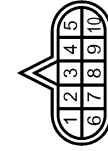
# IPOD ADAPTER

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[BOSE AUDIO WITHOUT NAVIGATION]

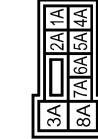
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | F157                              |
| Connector Name | TOM (TRANSMISSION CONTROL MODULE) |
| Connector Type | SPT0FG                            |



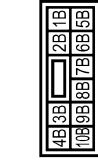
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 7            | L             | REV LAMP RLY                |

|                |                  |
|----------------|------------------|
| Connector No.  | M1               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS08FW-M2        |



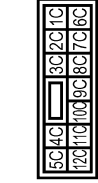
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 2A           | G             |                             |
| 5A           | L             |                             |

|                |                  |
|----------------|------------------|
| Connector No.  | M2               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FW-CS        |



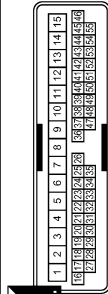
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1B           | SB            |                             |

|                |                  |
|----------------|------------------|
| Connector No.  | M3               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS        |



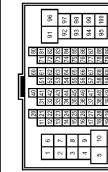
|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 12C          | R             |                             |

|                |              |
|----------------|--------------|
| Connector No.  | M5           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH60MW-CS15  |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 9            | W             |                             |
| 10           | B             |                             |
| 36           | W             |                             |
| 37           | L             |                             |

|                |                 |
|----------------|-----------------|
| Connector No.  | M6              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH60MW-CS16-TM4 |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 36           | O             |                             |
| 92           | Y             |                             |

|                |                 |
|----------------|-----------------|
| Connector No.  | M7              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH60MW-CS16-TM4 |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 31           | V             |                             |
| 32           | LG            |                             |
| 33           | SHIELD        |                             |
| 34           | SB            |                             |
| 35           | BR            |                             |
| 36           | Y             |                             |
| 37           | SHIELD        |                             |
| 40           | O             |                             |
| 41           | W             |                             |
| 42           | SHIELD        |                             |
| 43           | R             |                             |

|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 44           | G             |                             |
| 45           | SHIELD        |                             |
| 46           | SB            |                             |
| 98           | O             |                             |

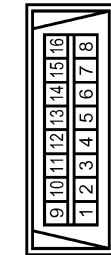
# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

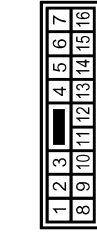
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                     |
|----------------|---------------------|
| Connector No.  | M24                 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW-P            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6            | L             | -                           |
| 14           | P             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M25          |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MW-CS    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | BR            | -                           |
| 4            | R             | -                           |
| 5            | L             | -                           |
| 6            | LG            | -                           |
| 7            | B             | -                           |
| 10           | P             | -                           |
| 11           | L             | -                           |
| 12           | Y             | -                           |
| 13           | SB            | -                           |

|    |   |   |
|----|---|---|
| 14 | R | - |
| 15 | G | - |
| 16 | W | - |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M38                               |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY-1V                        |



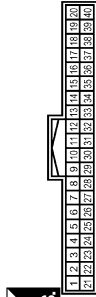
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24           | P             | -                           |
| 31           | L             | -                           |
| 33           | B             | -                           |

|                |                |
|----------------|----------------|
| Connector No.  | M63            |
| Connector Name | CENTER SPEAKER |
| Connector Type | TK02FBR        |



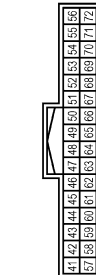
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | LG            | -                           |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M66                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH                  |



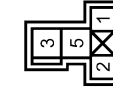
| Terminal No. | Color of Wire | Signal Name [Specification]    |
|--------------|---------------|--------------------------------|
| 28           | R             | VEHICLE SPEED SIGNAL (8-PULSE) |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M67                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH32FW-NH                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56           | L             | CAN-H                       |
| 72           | P             | CAN-L                       |

|                |                    |
|----------------|--------------------|
| Connector No.  | M69                |
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | MS02FL-M2-LC       |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | W             | -                           |
| 3            | LG            | -                           |
| 5            | O             | -                           |

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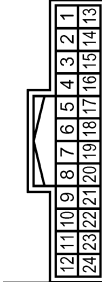
# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

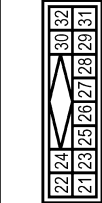
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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| Connector No.  | M71                         |
| Connector Name | DISPLAY UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 2            | Y             | INVERTER VCC                |
| 3            | O             | SIGNAL VCC                  |
| 4            | V             | AUX IMAGE GND               |
| 5            | Y             | SHIELD                      |
| 6            | L             | RGB (G.GREEN) SIGNAL        |
| 7            | SHIELD        | SHIELD                      |
| 8            | R             | HP                          |
| 9            | B             | RGB AREA (YS) SIGNAL        |
| 11           | Y             | COMM (CONT->DISP)           |
| 13           | BR            | INVERTER GND                |

|                |                                |
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| Connector No.  | M82                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | A12FW                          |

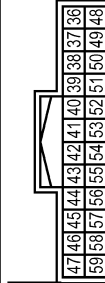


| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 21           | W             | SATELLITE SOUND SIGNAL LH (C) |
| 22           | B             | SATELLITE SOUND SIGNAL LH (C) |
| 23           | R             | SATELLITE SOUND SIGNAL RH (C) |
| 24           | G             | SATELLITE SOUND SIGNAL RH (C) |
| 25           | SHIELD        | SHIELD                        |
| 26           | SHIELD        | SHIELD                        |
| 27           | SB            | MODE CHANGE SIGNAL            |
| 28           | P             | REQUEST (SAT->CONT)           |
| 29           | B             | COMM (SAT->CONT)              |
| 30           | L             | COMM (CONT->SAT)              |

|    |        |                     |
|----|--------|---------------------|
| 14 | LG     | SIGNAL GND          |
| 15 | SR     | AUX IMAGE SIGNAL    |
| 16 | BR     | COMP SYNC           |
| 17 | G      | RGB (R.RED) SIGNAL  |
| 18 | P      | RGB (B.BLUE) SIGNAL |
| 19 | W      | RGB SYNC            |
| 20 | G      | VP                  |
| 21 | SHIELD | SHIELD              |
| 22 | BR     | COMM (DISP->CONT)   |
| 23 | SHIELD | SHIELD              |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 3            | L             | ACC                         |
| 6            | G             | AV COMM (H)                 |
| 8            | R             | AV COMM (L)                 |
| 9            | BR            | SW GND                      |
| 14           | SB            | EJECT SIGNAL                |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M83                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | SB            | AUX IMAGE SIGNAL            |
| 37           | V             | AUX IMAGE GND               |
| 38           | P             | RGB (B.BLUE) SIGNAL         |
| 39           | L             | RGB (G.GREEN) SIGNAL        |
| 40           | G             | RGB (R.RED) SIGNAL          |
| 41           | W             | RGB SYNC                    |
| 42           | SHIELD        | SHIELD                      |
| 43           | B             | RGB AREA (YS) SIGNAL        |
| 44           | BR            | COMM (DISP->CONT)           |
| 45           | R             | HP                          |
| 46           | LG            | SIGNAL GND                  |

|                |                      |
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| Connector No.  | M72                  |
| Connector Name | MULTIFUNCTION SWITCH |
| Connector Type | TH16FW-NH            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6            | P             | STRG SW A                   |
| 7            | V             | ACC                         |
| 9            | L             | ILLUMINATION                |
| 15           | B             | STRG SW GND                 |
| 16           | L             | STRG SW B                   |
| 19           | Y             | BATTERY                     |
| 20           | B             | GND                         |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M84                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH16FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 66           | G             | AUX IMAGE SIGNAL            |
| 73           | SHIELD        | SHIELD                      |
| 74           | R             | AUX IMAGE GND               |



# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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| Connector No.  | M85                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH22FW-NH                      |

|                             |                      |                      |        |                          |                          |        |     |       |       |                                |                                |
|-----------------------------|----------------------|----------------------|--------|--------------------------|--------------------------|--------|-----|-------|-------|--------------------------------|--------------------------------|
| Terminal No.                | 79                   | 80                   | 81     | 82                       | 83                       | 84     | 85  | 86    | 87    | 88                             | 89                             |
| Color of Wire               | P                    | L                    | SHIELD | G                        | B                        | B      | B   | L     | P     | V                              | LG                             |
| Signal Name [Specification] | TEL VOICE SIGNAL (-) | TEL VOICE SIGNAL (+) | SHIELD | iPod SOUND SIGNAL RH (-) | iPod SOUND SIGNAL RH (+) | SHIELD | GND | CAN-H | CAN-L | AV COMM (H) [With BOSE system] | AV COMM (L) [With BOSE system] |



|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|

|     |        |                          |
|-----|--------|--------------------------|
| 90  | SB     | AV COMM (H)              |
| 91  | Y      | AV COMM (L)              |
| 95  | P      | AUX SOUND SIGNAL RH (+)  |
| 96  | W      | AUX SOUND SIGNAL LH (+)  |
| 97  | B      | SHIELD                   |
| 98  | W      | iPod SOUND SIGNAL LH (+) |
| 99  | R      | iPod SOUND SIGNAL LH (-) |
| 100 | SHIELD | SHIELD                   |
| 101 | BR     | SW GND                   |
| 103 | SB     | EJECT SIGNAL             |
| 104 | G      | IGNITION                 |
| 105 | O      | REVERSE                  |
| 106 | SB     | PARKING BRAKE            |
| 107 | GR     | VEHICLE SPEED (8-PULSE)  |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M86                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH12FW-NH                      |

|                             |                          |                           |               |        |                          |                           |                          |                           |                          |                           |
|-----------------------------|--------------------------|---------------------------|---------------|--------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|---------------------------|
| Terminal No.                | 108                      | 109                       | 110           | 111    | 112                      | 113                       | 114                      | 115                       | 118                      | 119                       |
| Color of Wire               | BR                       | R                         | SB            | B      | V                        | O                         | Y                        | G                         | LG                       | W                         |
| Signal Name [Specification] | SOUND SIGNAL REAR RH (+) | SOUND SIGNAL FRONT RH (+) | AMP_ON SIGNAL | SHIELD | SOUND SIGNAL REAR LH (+) | SOUND SIGNAL FRONT LH (+) | SOUND SIGNAL REAR RH (-) | SOUND SIGNAL FRONT RH (-) | SOUND SIGNAL REAR LH (-) | SOUND SIGNAL FRONT LH (-) |



|   |   |   |   |   |   |   |   |   |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|

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| Connector No.  | M106         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MPF-N5S  |



|                             |                              |                              |                              |   |   |   |   |   |   |    |
|-----------------------------|------------------------------|------------------------------|------------------------------|---|---|---|---|---|---|----|
| Terminal No.                | 1                            | 2                            | 3                            | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Color of Wire               | B                            | W                            | R                            |   |   |   |   |   |   |    |
| Signal Name [Specification] | - [Without rear view camera] | - [Without rear view camera] | - [Without rear view camera] |   |   |   |   |   |   |    |



|   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|----|

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|----------------|-------------------|
| Connector No.  | M107              |
| Connector Name | ECM               |
| Connector Type | RH24GY-R28-R-LH-Z |

|                             |     |     |     |     |     |     |     |     |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Terminal No.                | 128 | 124 | 121 | 118 | 117 | 108 | 104 | 100 |
| Color of Wire               |     |     |     |     |     |     |     |     |
| Signal Name [Specification] |     |     |     |     |     |     |     |     |



|                |              |
|----------------|--------------|
| Connector No.  | M111         |
| Connector Name | iPOD ADAPTER |
| Connector Type | TH24FW-NH    |

|                             |                          |                          |     |             |         |              |                           |                           |                    |                          |                          |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|-----------------------------|--------------------------|--------------------------|-----|-------------|---------|--------------|---------------------------|---------------------------|--------------------|--------------------------|--------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| Terminal No.                | 1                        | 2                        | 3   | 4           | 5       | 6            | 7                         | 8                         | 9                  | 10                       | 11                       | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |   |
| Color of Wire               | R                        | B                        | V   | R           | Y       | W            | P                         | L                         | O                  | W                        | W                        | B  | B  | B  | B  | B  | B  | B  | B  | B  | B  | B  | B  | B  | B |
| Signal Name [Specification] | iPod SOUND SIGNAL LH (+) | iPod SOUND SIGNAL LH (-) | ACC | AV COMM (L) | BATTERY | CHARGE POWER | COMM (iPod->iPod Adapter) | COMM (iPod->iPod Adapter) | ACCESSORY IDENTITY | iPod SOUND SIGNAL RH (+) | iPod SOUND SIGNAL RH (-) |    |    |    |    |    |    |    |    |    |    |    |    |    |   |



|                             |                          |        |             |     |        |                             |                  |                       |                          |
|-----------------------------|--------------------------|--------|-------------|-----|--------|-----------------------------|------------------|-----------------------|--------------------------|
| Terminal No.                | 14                       | 15     | 16          | 17  | 19     | 21                          | 22               | 23                    | 24                       |
| Color of Wire               | G                        | SHIELD | G           | BR  | SHIELD | W                           | G                | R                     | B                        |
| Signal Name [Specification] | iPod SOUND SIGNAL RH (-) | SHIELD | AV COMM (H) | GND | SHIELD | iPod CONNECTION RECOGNITION | ACCESSORY DETECT | iPod SOUND SIGNAL GND | iPod SOUND SIGNAL LH (+) |

|                |                      |
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| Connector No.  | M112                 |
| Connector Name | iPod SIDE (WITH A/T) |
| Connector Type | IP16FGY              |



|                             |                          |                       |                           |                           |                          |                             |
|-----------------------------|--------------------------|-----------------------|---------------------------|---------------------------|--------------------------|-----------------------------|
| Terminal No.                | 1                        | 2                     | 3                         | 4                         | 5                        | 6                           |
| Color of Wire               | B                        | R                     | L                         | P                         | W                        | W                           |
| Signal Name [Specification] | iPod SOUND SIGNAL LH (+) | iPod SOUND SIGNAL GND | COMM (iPod->iPod Adapter) | COMM (iPod Adapter->iPod) | iPod SOUND SIGNAL RH (+) | iPod CONNECTION RECOGNITION |



|                             |           |           |
|-----------------------------|-----------|-----------|
| Terminal No.                | 113       | 114       |
| Color of Wire               | P         | L         |
| Signal Name [Specification] | VEHCAN-L1 | VEHCAN-H1 |

|                             |                          |                          |     |             |         |              |                           |                           |                    |                          |
|-----------------------------|--------------------------|--------------------------|-----|-------------|---------|--------------|---------------------------|---------------------------|--------------------|--------------------------|
| Terminal No.                | 1                        | 2                        | 3   | 4           | 5       | 8            | 10                        | 11                        | 12                 | 13                       |
| Color of Wire               | R                        | B                        | V   | R           | Y       | W            | P                         | L                         | O                  | W                        |
| Signal Name [Specification] | iPod SOUND SIGNAL LH (+) | iPod SOUND SIGNAL RH (+) | ACC | AV COMM (L) | BATTERY | CHARGE POWER | COMM (iPod->iPod Adapter) | COMM (iPod->iPod Adapter) | ACCESSORY IDENTITY | iPod SOUND SIGNAL RH (+) |

|                             |                          |                       |                           |                           |                          |                             |     |              |        |                  |                    |
|-----------------------------|--------------------------|-----------------------|---------------------------|---------------------------|--------------------------|-----------------------------|-----|--------------|--------|------------------|--------------------|
| Terminal No.                | 1                        | 2                     | 5                         | 6                         | 7                        | 9                           | 10  | 12           | 14     | 13               | 16                 |
| Color of Wire               | B                        | R                     | L                         | P                         | W                        | W                           | BR  | W            | SHIELD | G                | O                  |
| Signal Name [Specification] | iPod SOUND SIGNAL LH (+) | iPod SOUND SIGNAL GND | COMM (iPod->iPod Adapter) | COMM (iPod Adapter->iPod) | iPod SOUND SIGNAL RH (+) | iPod CONNECTION RECOGNITION | GND | CHARGE POWER | SHIELD | ACCESSORY DETECT | ACCESSORY IDENTITY |

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# IPOD ADAPTER

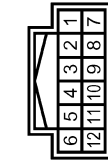
< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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| Connector No.  | M114         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12FW-NH    |



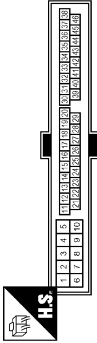
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | G             | -                           |
| 3            | O             | -                           |
| 4            | SHIELD        | -                           |
| 5            | W             | -                           |
| 6            | B             | -                           |
| 7            | R             | -                           |
| 8            | BR            | -                           |
| 9            | W             | -                           |
| 10           | W             | -                           |
| 11           | SHIELD        | -                           |

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| Connector No.  | M117             |
| Connector Name | WIRE TO WIRE     |
| Connector Type | TH163MW-CS16-TM4 |



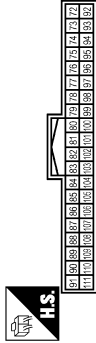
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | SB            | -                           |
| 32           | Y             | -                           |
| 33           | V             | -                           |
| 34           | LG            | -                           |
| 40           | Y             | -                           |
| 41           | G             | -                           |
| 42           | LG            | -                           |
| 43           | B             | -                           |
| 44           | B             | -                           |
| 45           | W             | -                           |
| 46           | SHIELD        | -                           |

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| Connector No.  | M116         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH163MW-NS/D |



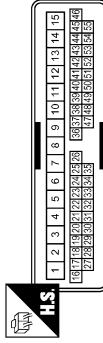
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 30           | LG            | -                           |
| 31           | W             | -                           |
| 41           | O             | -                           |

|                |                           |
|----------------|---------------------------|
| Connector No.  | M122                      |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH140FB-NH                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 90           | P             | CAN-L                       |
| 91           | L             | CAN-H                       |

|                |              |
|----------------|--------------|
| Connector No.  | M124         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH140MP-CS15 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 35           | R             | -                           |
| 37           | BR            | -                           |

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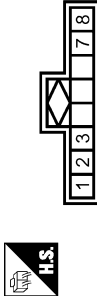
# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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| Connector No.  | M184                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH A/T) |
| Connector Type | AB8FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | SOUND SIGNAL RH (+)         |
| 2            | B             | SOUND SIGNAL GND            |
| 3            | W             | SOUND SIGNAL LH (-)         |
| 7            | G             | AUX IMAGE SIGNAL            |
| 8            | R             | AUX IMAGE GND               |

|                |              |
|----------------|--------------|
| Connector No.  | M155         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH88FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | R             | -                           |
| 4            | W             | -                           |
| 5            | B             | -                           |
| 6            | B             | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

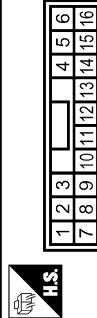
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| Connector No.  | M181         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MMF-NH   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | G             | -                           |
| 3            | O             | -                           |
| 4            | SHIELD        | -                           |
| 5            | GR            | -                           |
| 6            | BR            | -                           |
| 7            | W             | -                           |
| 8            | BR            | -                           |
| 9            | L             | -                           |
| 10           | W             | -                           |
| 11           | SHIELD        | -                           |

|    |   |
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|----------------|----------------------|
| Connector No.  | M182                 |
| Connector Name | IPOD SIDE (WITH M/T) |
| Connector Type | IP18EGY              |



| Terminal No. | Color of Wire | Signal Name [Specification]     |
|--------------|---------------|---------------------------------|
| 1            | BR            | iPod SOUND SIGNAL LH (+)        |
| 2            | W             | iPod SOUND SIGNAL GND           |
| 5            | L             | COMM (iPod->iPod ADAPTER)       |
| 6            | P             | COMM (iPod ADAPTER->iPod)       |
| 7            | GR            | iPod SOUND SIGNAL RH (+)        |
| 9            | W             | iPod CONNECTION RECOGNITION GND |
| 12           | L             | CHARGE POWER                    |
| 14           | SHIELD        | SHIELD                          |
| 15           | G             | ACCESSORY DETECT                |
| 16           | O             | ACCESSORY IDENTIFY              |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M303                              |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY                           |



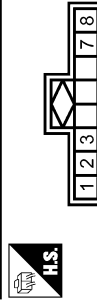
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 14           | W             | -                           |
| 15           | L             | -                           |
| 17           | BR            | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M361         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08MMF-NH   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | BR            | - [Without NAV]             |
| 4            | Y             | - [Without NAV]             |
| 5            | SHIELD        | -                           |
| 6            | SHIELD        | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M362                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH M/T) |
| Connector Type | AB8FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | BR            | - [Without NAV]             |
| 2            | B             | -                           |
| 3            | Y             | - [Without NAV]             |
| 7            | G             | -                           |
| 8            | R             | -                           |

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# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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|----------------|--------------------------------|
| Connector No.  | M370                           |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | GT13SH-2/1S-HU                 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | FM SUB                      |
| 34           | -             | AM-FM MAIN                  |
| 35           | -             | ANTENNA AMP. ON SIGNAL      |

|                |                |
|----------------|----------------|
| Connector No.  | M375           |
| Connector Name | WIRE TO WIRE   |
| Connector Type | GT13SC-2/1S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | M376             |
| Connector Name | WIRE TO WIRE     |
| Connector Type | GT13SCH-2/1PF-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |                |
|----------------|----------------|
| Connector No.  | M378           |
| Connector Name | ANTENNA AMP.   |
| Connector Type | GT13SC-1/1S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | ANTENNA AMP. ON SIGNAL      |
| 2            | -             | AM-FM MAIN                  |

|                |                     |
|----------------|---------------------|
| Connector No.  | M379                |
| Connector Name | GLASS ANTENNA (SUB) |
| Connector Type | P01FB-A             |



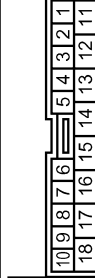
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

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| Connector No.  | M381                 |
| Connector Name | GLASS ANTENNA (MAIN) |
| Connector Type | P01FB-A              |



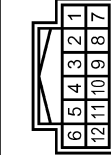
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

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| Connector No.  | R1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10PW-NSS   |



| Terminal No. | Color of Wire | Signal Name [Specification]  |
|--------------|---------------|------------------------------|
| 1            | O             | - [Without rear view camera] |
| 2            | W             | - [Without rear view camera] |
| 3            | SHIELD        | -                            |

|                |              |
|----------------|--------------|
| Connector No.  | R2           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12PW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification]  |
|--------------|---------------|------------------------------|
| 3            | SHIELD        | -                            |
| 4            | O             | - [Without rear view camera] |
| 5            | W             | - [Without rear view camera] |

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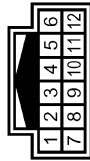
# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |              |
|----------------|--------------|
| Connector No.  | R11          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | SHIELD        | -                           |
| 4            | R             | -                           |
| 5            | G             | -                           |

|                |            |
|----------------|------------|
| Connector No.  | R17        |
| Connector Name | MICROPHONE |
| Connector Type | TK6QFW     |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | MICROPHONE SIGNAL           |
| 2            | SHIELD        | SHIELD                      |
| 4            | G             | MICROPHONE VCC              |

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# SATELLITE RADIO TUNER

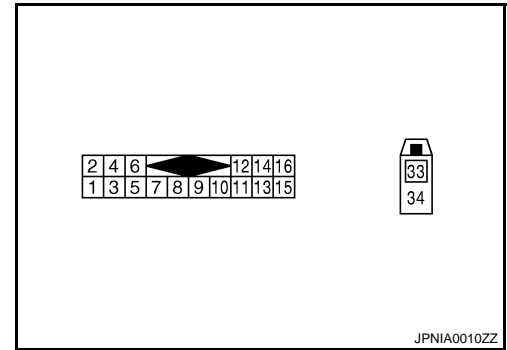
< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## SATELLITE RADIO TUNER

### Reference Value

INFOID:000000004238633



### PHYSICAL VALUES

| Terminal |        | Description                     |              | Condition          |                                       | Reference value (Approx.) |
|----------|--------|---------------------------------|--------------|--------------------|---------------------------------------|---------------------------|
| +        | -      | Signal name                     | Input/Output |                    |                                       |                           |
| 2 (R)    | 1 (G)  | Satellite radio sound signal LH | Output       | Ignition switch ON | When satellite radio mode is selected | <br>SKIB3609E             |
| 4 (B)    | 3 (W)  | Satellite radio sound signal RH | Output       | Ignition switch ON | When satellite radio mode is selected | <br>SKIB3609E             |
| 5        | —      | Shield                          | —            | —                  | —                                     | —                         |
| 6        | —      | Shield                          | —            | —                  | —                                     | —                         |
| 8 (G)    | Ground | Request signal (SAT→CONT)       | Output       | Ignition switch ON | When satellite radio mode is selected | <br>SKIA9299J             |
| 9 (L)    | Ground | Communication signal (SAT→CONT) | Output       | Ignition switch ON | When satellite radio mode is selected | <br>SKIA9300J             |

# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

| Terminal |        | Description                     |              | Condition           |                                       | Reference value (Approx.) |
|----------|--------|---------------------------------|--------------|---------------------|---------------------------------------|---------------------------|
| +        | -      | Signal name                     | Input/Output |                     |                                       |                           |
| 10 (P)   | Ground | Communication signal (CONT→SAT) | Input        | Ignition switch ON  | When satellite radio mode is selected |                           |
| 12 (Y)   | Ground | Battery power supply            | Input        | Ignition switch OFF | —                                     | Battery voltage           |
| 16 (O)   | Ground | ACC power supply                | Input        | Ignition switch ACC | —                                     | Battery voltage           |
| 33       | —      | Satellite antenna               | Input        | —                   | —                                     | —                         |
| 34       | —      | Shield                          | —            | —                   | —                                     | —                         |

## Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

INFOID:000000004467649

**NOTE:**

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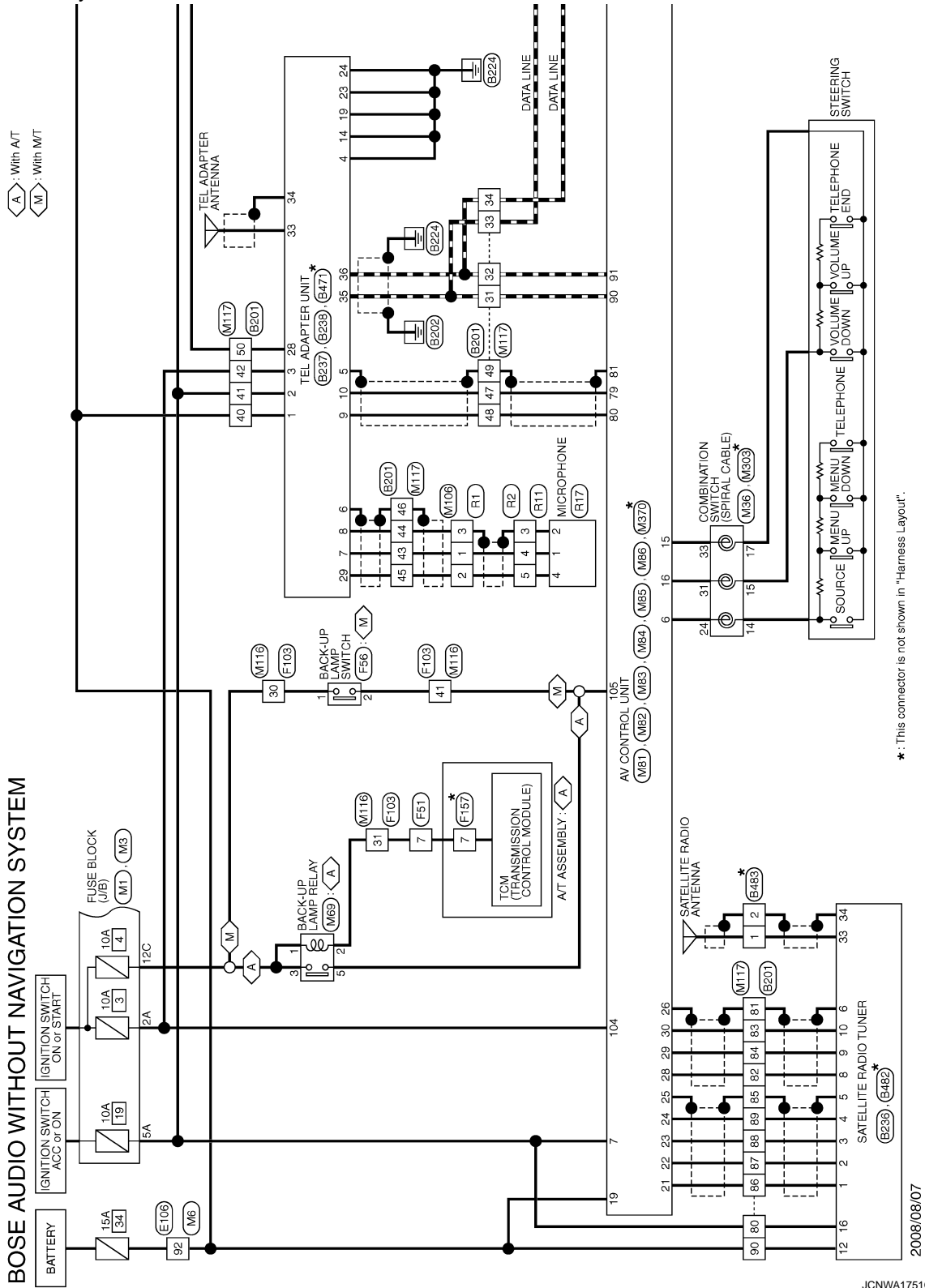
AV

# SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

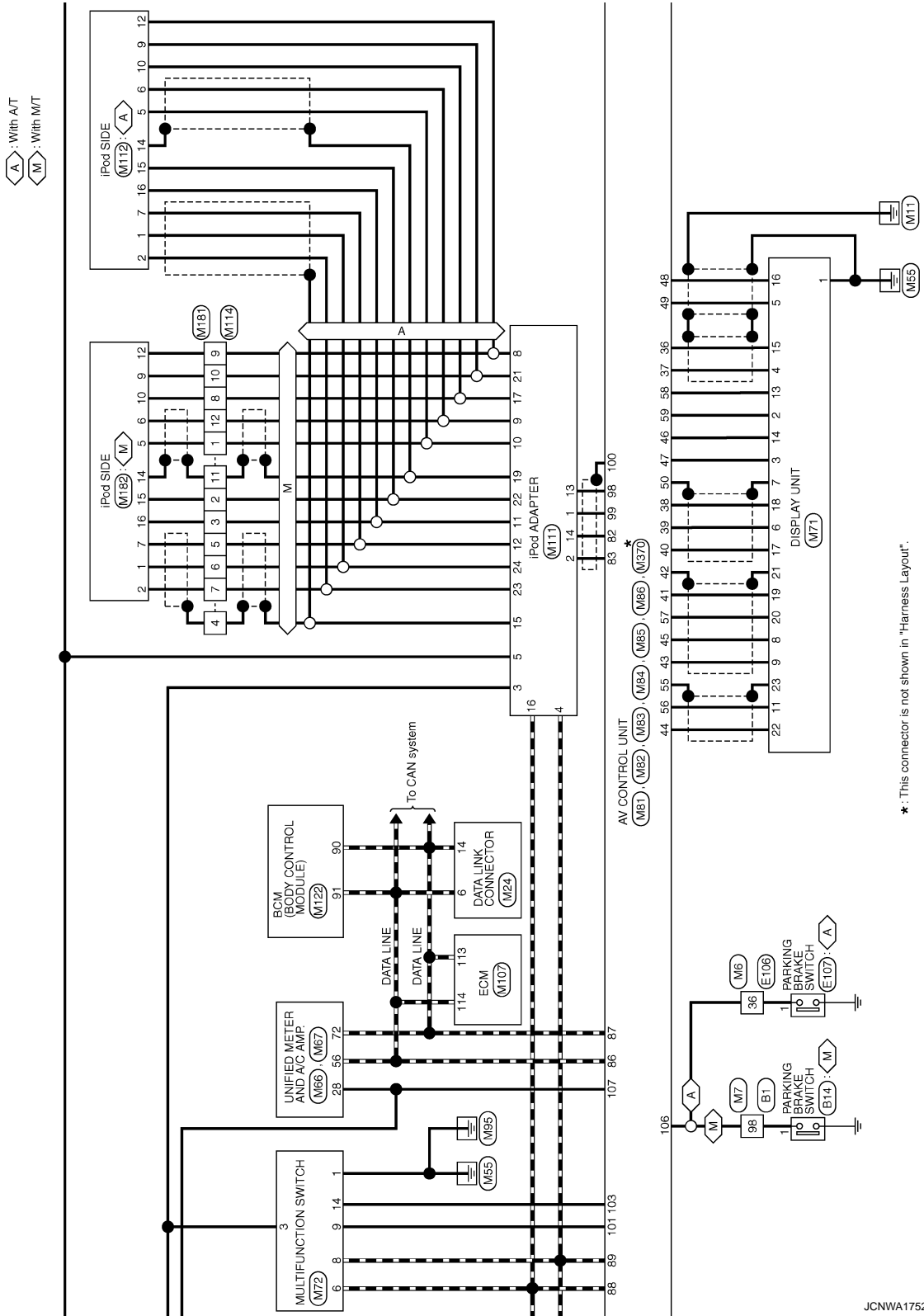




# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]



\*: This connector is not shown in "Harness Layout".

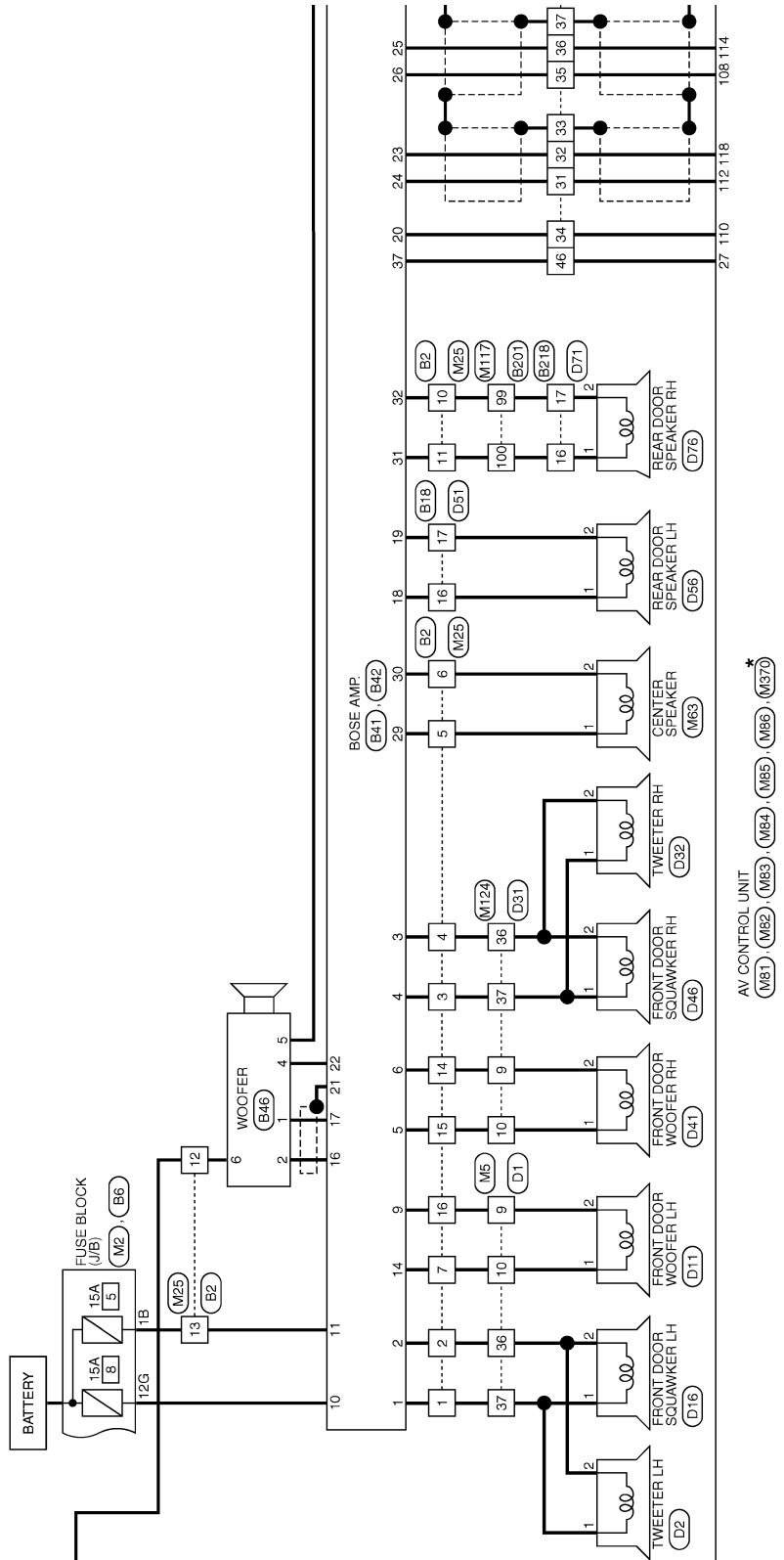
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# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]



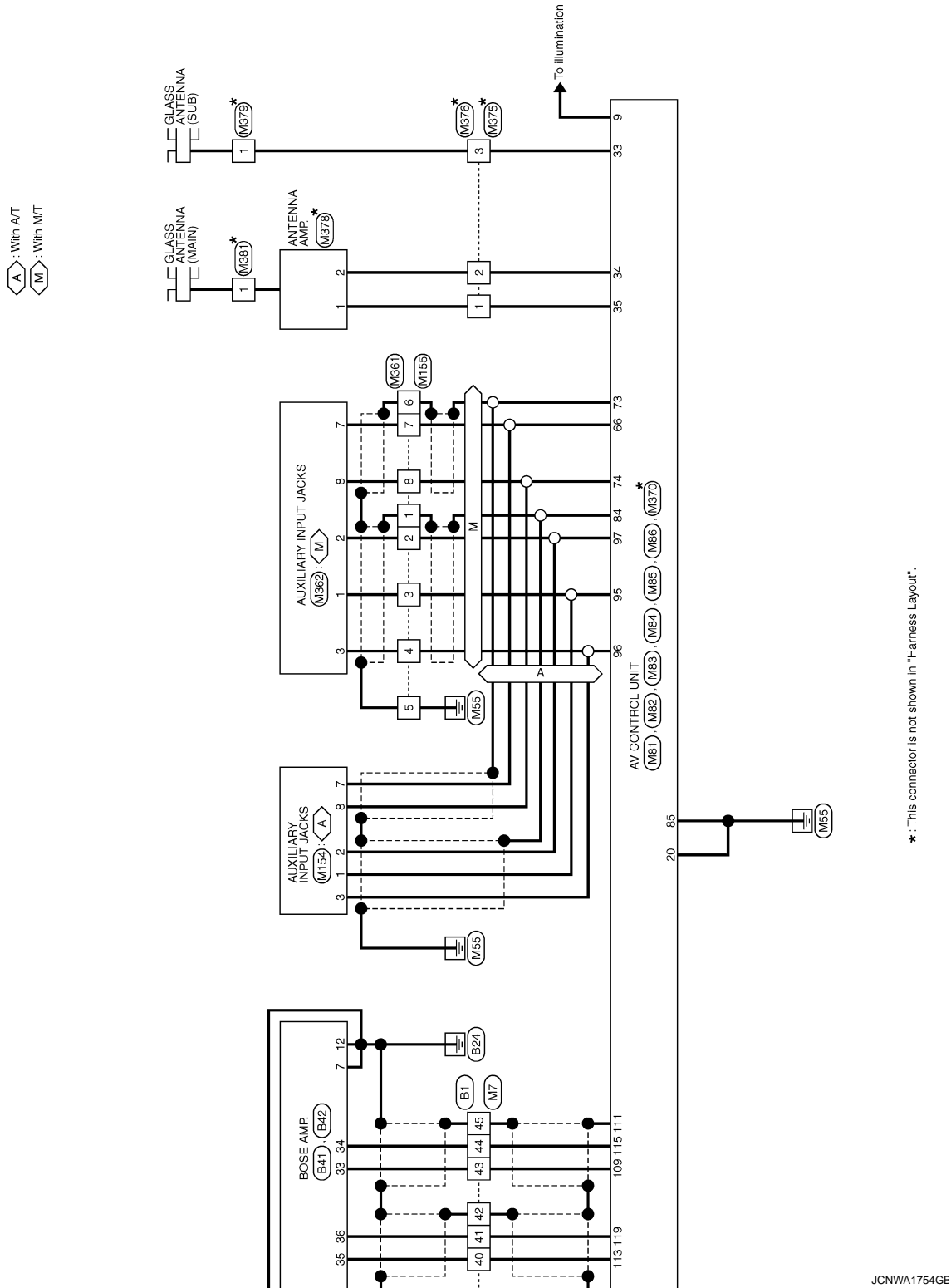
\*: This connector is not shown in "Harness Layout".

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# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]



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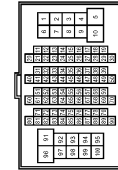
# SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                 |
|----------------|-----------------|
| Connector No.  | B1              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH8DFW-CS16-TM4 |



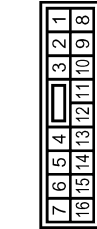
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | V             | -                           |
| 32           | SB            | -                           |
| 33           | SHIELD        | -                           |
| 34           | W             | -                           |
| 35           | BR            | -                           |
| 36           | Y             | -                           |
| 37           | SHIELD        | -                           |
| 40           | P             | -                           |
| 41           | L             | -                           |
| 42           | SHIELD        | -                           |
| 43           | R             | -                           |

|    |        |   |
|----|--------|---|
| 44 | G      | - |
| 45 | SHIELD | - |
| 46 | SE     | - |
| 88 | V      | - |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | V             | -                           |
| 4            | LG            | -                           |
| 5            | L             | -                           |
| 6            | O             | -                           |
| 7            | B             | -                           |
| 10           | Y             | -                           |
| 11           | LG            | -                           |
| 12           | P             | -                           |
| 13           | GR            | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | B2           |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16FW-CS    |



|                |                  |
|----------------|------------------|
| Connector No.  | B6               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FBR-CS       |



|                |                                 |
|----------------|---------------------------------|
| Connector No.  | B14                             |
| Connector Name | PARKING BRAKE SWITCH (WITH M/T) |
| Connector Type | P01FB-A                         |



|                |              |
|----------------|--------------|
| Connector No.  | B18          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NS8   |



|              |     |   |   |
|--------------|-----|---|---|
| Terminal No. | 12G | Y | - |
|--------------|-----|---|---|

|              |   |   |   |
|--------------|---|---|---|
| Terminal No. | 1 | V | - |
|--------------|---|---|---|

|              |    |   |                      |
|--------------|----|---|----------------------|
| Terminal No. | 16 | L | - [With BOSE system] |
| 17           | P  | - | [With BOSE system]   |

|    |   |
|----|---|
| 14 | R |
| 15 | G |
| 16 | W |

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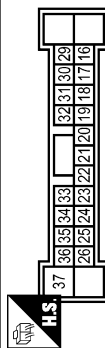
# SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

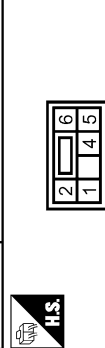
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |              |
|----------------|--------------|
| Connector No.  | B41          |
| Connector Name | BOSE AMP.    |
| Connector Type | SCA18FB-SG44 |



| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 16           | SB            | SOUND SIGNAL WOOFER (-)       |
| 17           | V             | SOUND SIGNAL WOOFER (-)       |
| 18           | L             | SOUND SIGNAL REAR DOOR LH (+) |
| 19           | P             | SOUND SIGNAL REAR DOOR LH (-) |
| 20           | W             | AMP. ON SIGNAL                |
| 21           | SHIELD        | SHIELD                        |
| 22           | GR            | WOOFER AMP. ON SIGNAL         |
| 23           | SB            | SOUND SIGNAL REAR LH (-)      |
| 24           | V             | SOUND SIGNAL REAR LH (+)      |
| 25           | Y             | SOUND SIGNAL REAR RH (-)      |
| 26           | BR            | SOUND SIGNAL REAR RH (+)      |

|                |           |
|----------------|-----------|
| Connector No.  | B46       |
| Connector Name | WOOFER    |
| Connector Type | MS08FB-CS |



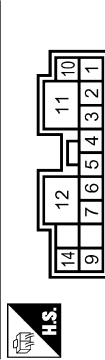
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | V             | SOUND SIGNAL WOOFER (-)     |
| 2            | SB            | SOUND SIGNAL WOOFER (+)     |
| 4            | GR            | WOOFER AMP. ON SIGNAL       |
| 5            | B             | GND                         |
| 6            | P             | BATTERY                     |

|    |    |                               |
|----|----|-------------------------------|
| 29 | L  | SOUND SIGNAL CENTER (+)       |
| 30 | O  | SOUND SIGNAL CENTER (-)       |
| 31 | LG | SOUND SIGNAL REAR DOOR RH (+) |
| 32 | V  | SOUND SIGNAL REAR DOOR RH (-) |
| 33 | R  | SOUND SIGNAL FRONT RH (+)     |
| 34 | G  | SOUND SIGNAL FRONT RH (-)     |
| 35 | P  | SOUND SIGNAL FRONT LH (+)     |
| 36 | L  | SOUND SIGNAL FRONT LH (-)     |
| 37 | SB | MODE CHANGE SIGNAL            |

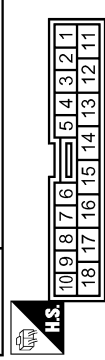
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | FRONT DOOR SQUAWKER LH (+)  |
| 2            | W             | FRONT DOOR SQUAWKER LH (-)  |
| 3            | LG            | FRONT DOOR SQUAWKER RH (-)  |
| 4            | V             | FRONT DOOR SQUAWKER RH (+)  |
| 5            | G             | FRONT DOOR WOOFER RH (+)    |
| 6            | R             | FRONT DOOR WOOFER RH (-)    |
| 7            | B             | GND                         |
| 9            | W             | FRONT DOOR WOOFER LH (-)    |
| 10           | Y             | BATTERY                     |
| 11           | GR            | BATTERY                     |
| 12           | B             | GND                         |

|     |        |        |
|-----|--------|--------|
| 47  | G      |        |
| 48  | Y      | SHIELD |
| 49  | P      |        |
| 50  | P      |        |
| 80  | O      |        |
| 81  | SHIELD |        |
| 82  | G      |        |
| 83  | P      |        |
| 84  | L      |        |
| 85  | SHIELD |        |
| 86  | G      |        |
| 87  | R      |        |
| 88  | W      |        |
| 89  | B      |        |
| 90  | Y      |        |
| 99  | P      |        |
| 100 | L      |        |

|                |              |
|----------------|--------------|
| Connector No.  | B42          |
| Connector Name | BOSE AMP.    |
| Connector Type | SCA12FB-SJA2 |



|                |              |
|----------------|--------------|
| Connector No.  | B2.B         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NSS   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | L             |                             |
| 17           | P             |                             |

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# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

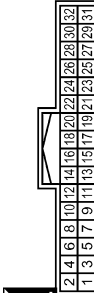
[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                       |
|----------------|-----------------------|
| Connector No.  | B236                  |
| Connector Name | SATELLITE RADIO TUNER |
| Connector Type | A16FW                 |

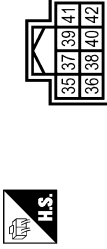


|                |                  |
|----------------|------------------|
| Connector No.  | B237             |
| Connector Name | TEL ADAPTER UNIT |
| Connector Type | TH32FW-NH        |



|    |   |                         |
|----|---|-------------------------|
| 19 | B | GND                     |
| 23 | B | CONTROL SIGNAL          |
| 24 | B | CONTROL SIGNAL          |
| 28 | P | VEHICLE SPEED (8-PULSE) |
| 29 | Y | MICROPHONE VCC          |

|                |                  |
|----------------|------------------|
| Connector No.  | B238             |
| Connector Name | TEL ADAPTER UNIT |
| Connector Type | TH48FW-NH        |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | G             | SOUND SIGNAL LH (+)         |
| 2            | R             | SOUND SIGNAL LH (-)         |
| 3            | W             | SOUND SIGNAL RH (+)         |
| 4            | B             | SOUND SIGNAL RH (-)         |
| 5            | SHIELD        | SHIELD                      |
| 6            | SHIELD        | SHIELD                      |
| 8            | G             | REQUEST (SAT->CONT)         |
| 9            | L             | COMM (SAT->CONT)            |
| 10           | P             | COMM (CONT->SAT)            |
| 12           | Y             | BATTERY                     |
| 16           | O             | ACC                         |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | V             | BATTERY                     |
| 2            | LG            | ACC                         |
| 3            | W             | IGNITION                    |
| 4            | B             | GND                         |
| 5            | SHIELD        | SHIELD                      |
| 6            | SHIELD        | SHIELD                      |
| 7            | BR            | MICROPHONE SIGNAL           |
| 8            | O             | MICROPHONE GND              |
| 9            | Y             | TEL VOICE SIGNAL (+)        |
| 10           | G             | TEL VOICE SIGNAL (-)        |
| 14           | B             | GND                         |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 35           | L             | AV COMM (H)                 |
| 36           | P             | AV COMM (L)                 |

|                |                  |
|----------------|------------------|
| Connector No.  | B471             |
| Connector Name | TEL ADAPTER UNIT |
| Connector Type | GT16C-1S-HU      |



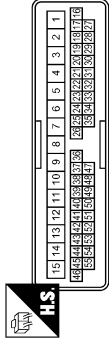
|                |                       |
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| Connector No.  | B482                  |
| Connector Name | SATELLITE RADIO TUNER |
| Connector Type | -                     |



|                |                         |
|----------------|-------------------------|
| Connector No.  | B483                    |
| Connector Name | SATELLITE RADIO ANTENNA |
| Connector Type | GT16-1PP-HU             |



|                |              |
|----------------|--------------|
| Connector No.  | D1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH48FW-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | TEL ANTENNA                 |
| 34           | SHIELD        | SHIELD                      |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | SATELLITE RADIO ANTENNA     |
| 34           | SHIELD        | SHIELD                      |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | SHIELD                      |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 35           | W             | -                           |
| 37           | L             | -                           |

# SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |            |
|----------------|------------|
| Connector No.  | D2         |
| Connector Name | TWEETER LH |
| Connector Type | TK02MBF-P  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | D11                  |
| Connector Name | FRONT DOOR WOOFER LH |
| Connector Type | NS02FW-CS            |



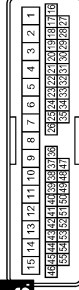
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | G             | -                           |
| 2            | R             | -                           |

|                |                        |
|----------------|------------------------|
| Connector No.  | D16                    |
| Connector Name | FRONT DOOR SQUAWKER LH |
| Connector Type | TK02FBR                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D31          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FY-CS/5  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 36           | W             | -                           |
| 37           | L             | -                           |

|                |            |
|----------------|------------|
| Connector No.  | D32        |
| Connector Name | TWEETER RH |
| Connector Type | TK02MBF-P  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | D41                  |
| Connector Name | FRONT DOOR WOOFER RH |
| Connector Type | NS02FW-CS            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | G             | -                           |
| 2            | R             | -                           |

|                |                        |
|----------------|------------------------|
| Connector No.  | D46                    |
| Connector Name | FRONT DOOR SQUAWKER RH |
| Connector Type | TK02FBR                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D51          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MM-NS8   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | LG            | -                           |
| 17           | Y             | -                           |

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# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                      |
|----------------|----------------------|
| Connector No.  | D36                  |
| Connector Name | REAR DOOR SPEAKER LH |
| Connector Type | NS02FBR-CS           |



|                             |    |   |
|-----------------------------|----|---|
| Terminal No.                | 1  | 2 |
| Color of Wire               | LG | Y |
| Signal Name [Specification] | -  | - |

|                |              |
|----------------|--------------|
| Connector No.  | D71          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MW-NS    |



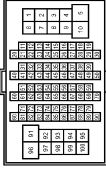
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|-----------------------------|----|----|
| Terminal No.                | 16 | 17 |
| Color of Wire               | L  | P  |
| Signal Name [Specification] | -  | -  |

|                |                      |
|----------------|----------------------|
| Connector No.  | D76                  |
| Connector Name | REAR DOOR SPEAKER RH |
| Connector Type | NS02FBR-CS           |



|                             |   |   |
|-----------------------------|---|---|
| Terminal No.                | 1 | 2 |
| Color of Wire               | L | P |
| Signal Name [Specification] | - | - |

|                |                 |
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| Connector No.  | E106            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TK60FY-CS/6-TM4 |



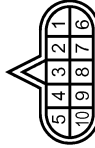
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|-----------------------------|----|----|
| Terminal No.                | 36 | 92 |
| Color of Wire               | O  | LG |
| Signal Name [Specification] | -  | -  |

|                |                                 |
|----------------|---------------------------------|
| Connector No.  | E107                            |
| Connector Name | PARKING BRAKE SWITCH (WITH A/T) |
| Connector Type | TB01FW                          |



|                             |   |
|-----------------------------|---|
| Terminal No.                | 1 |
| Color of Wire               | O |
| Signal Name [Specification] | - |

|                |              |
|----------------|--------------|
| Connector No.  | F51          |
| Connector Name | A/T ASSEMBLY |
| Connector Type | RK10FG-DGY   |



|                             |   |
|-----------------------------|---|
| Terminal No.                | 7 |
| Color of Wire               | R |
| Signal Name [Specification] | - |

|                |                     |
|----------------|---------------------|
| Connector No.  | F56                 |
| Connector Name | BACK-UP LAMP SWITCH |
| Connector Type | RK02FB              |



|                             |   |   |
|-----------------------------|---|---|
| Terminal No.                | 1 | 2 |
| Color of Wire               | R | O |
| Signal Name [Specification] | - | - |

|                |              |
|----------------|--------------|
| Connector No.  | F103         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK36FW-NS10  |



|                             |    |    |    |
|-----------------------------|----|----|----|
| Terminal No.                | 30 | 31 | 41 |
| Color of Wire               | R  | R  | O  |
| Signal Name [Specification] | -  | -  | -  |

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# SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

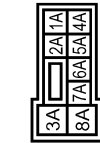
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | F157                              |
| Connector Name | TOM (TRANSMISSION CONTROL MODULE) |
| Connector Type | SP10FG                            |



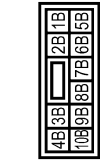
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|--------------|---|---------------|---|-----------------------------|--------------|
| Terminal No. | 7 | Color of Wire | L | Signal Name [Specification] | REV LAMP RLY |
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| Connector No.  | M1               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS06FW-M2        |



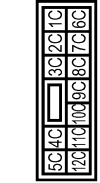
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|--------------|----|---------------|---|-----------------------------|--|
| Terminal No. | 2A | Color of Wire | G | Signal Name [Specification] |  |
|              | 5A |               | L |                             |  |

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|----------------|------------------|
| Connector No.  | M2               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FW-CS        |



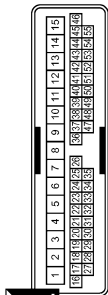
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| Terminal No. | 1B | Color of Wire | SB | Signal Name [Specification] |  |
|--------------|----|---------------|----|-----------------------------|--|

|                |                  |
|----------------|------------------|
| Connector No.  | M3               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS        |



|              |     |               |   |                             |  |
|--------------|-----|---------------|---|-----------------------------|--|
| Terminal No. | 12C | Color of Wire | R | Signal Name [Specification] |  |
|--------------|-----|---------------|---|-----------------------------|--|

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|----------------|--------------|
| Connector No.  | M5           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH00MW-CS15  |



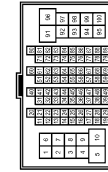
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|--------------|----|---------------|---|-----------------------------|--|
| Terminal No. | 9  | Color of Wire | W | Signal Name [Specification] |  |
|              | 10 |               | B |                             |  |
|              | 36 |               | W |                             |  |
|              | 37 |               | L |                             |  |

|                |                 |
|----------------|-----------------|
| Connector No.  | M6              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH00MW-CS16-TM4 |



|              |    |               |   |                             |  |
|--------------|----|---------------|---|-----------------------------|--|
| Terminal No. | 36 | Color of Wire | O | Signal Name [Specification] |  |
|              | 92 |               | Y |                             |  |

|                |                 |
|----------------|-----------------|
| Connector No.  | M7              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH00MW-CS16-TM4 |



|              |    |               |        |                             |  |
|--------------|----|---------------|--------|-----------------------------|--|
| Terminal No. | 31 | Color of Wire | V      | Signal Name [Specification] |  |
|              | 32 |               | LG     |                             |  |
|              | 33 |               | SHIELD |                             |  |
|              | 34 |               | SB     |                             |  |
|              | 35 |               | BR     |                             |  |
|              | 36 |               | Y      |                             |  |
|              | 37 |               | SHIELD |                             |  |
|              | 40 |               | O      |                             |  |
|              | 41 |               | W      |                             |  |
|              | 42 |               | SHIELD |                             |  |
|              | 43 |               | R      |                             |  |

|              |    |               |        |                             |  |
|--------------|----|---------------|--------|-----------------------------|--|
| Terminal No. | 44 | Color of Wire | G      | Signal Name [Specification] |  |
|              | 45 |               | SHIELD |                             |  |
|              | 46 |               | SB     |                             |  |
|              | 98 |               | O      |                             |  |

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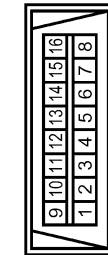
# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

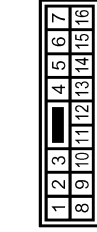
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                     |
|----------------|---------------------|
| Connector No.  | M24                 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW-P            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6            | L             | -                           |
| 14           | P             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M25          |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MW-CS    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | BR            | -                           |
| 4            | R             | -                           |
| 5            | L             | -                           |
| 6            | LG            | -                           |
| 7            | B             | -                           |
| 10           | P             | -                           |
| 11           | L             | -                           |
| 12           | Y             | -                           |
| 13           | SB            | -                           |

|    |   |
|----|---|
| 14 | R |
| 15 | G |
| 16 | W |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M36                               |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY-TV                        |



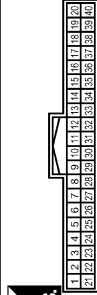
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24           | P             | -                           |
| 31           | L             | -                           |
| 33           | B             | -                           |

|                |                |
|----------------|----------------|
| Connector No.  | M63            |
| Connector Name | CENTER SPEAKER |
| Connector Type | TK02FBR        |



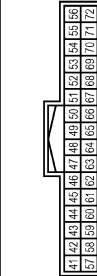
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | LG            | -                           |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M66                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH                  |



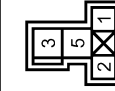
| Terminal No. | Color of Wire | Signal Name [Specification]    |
|--------------|---------------|--------------------------------|
| 28           | R             | VEHICLE SPEED SIGNAL (8-PULSE) |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M67                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH32FW-NH                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56           | L             | CAN-H                       |
| 72           | P             | CAN-L                       |

|                |                    |
|----------------|--------------------|
| Connector No.  | M69                |
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | MS02FL-M2-LC       |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | W             | -                           |
| 3            | LG            | -                           |
| 5            | O             | -                           |

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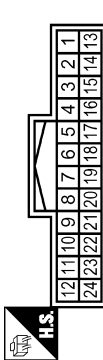
# SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

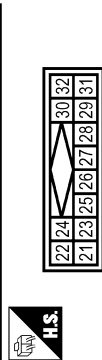
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M71                         |
| Connector Name | DISPLAY UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 2            | Y             | INVERTER VCC                |
| 3            | O             | SIGNAL VCC                  |
| 4            | Y             | AUX IMAGE GND               |
| 5            | Y             | SHIELD                      |
| 6            | L             | RGB (G.GREEN) SIGNAL        |
| 7            | L             | SHIELD                      |
| 8            | R             | HP                          |
| 9            | B             | RGB AREA (YS) SIGNAL        |
| 11           | Y             | COMM (CONT->DISP)           |
| 13           | BR            | INVERTER GND                |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M82                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | A12FW                          |

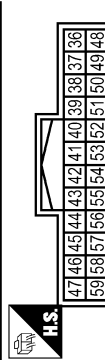


| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 21           | W             | SATELLITE SOUND SIGNAL LH (C) |
| 22           | B             | SATELLITE SOUND SIGNAL LH (C) |
| 23           | R             | SATELLITE SOUND SIGNAL RH (C) |
| 24           | G             | SATELLITE SOUND SIGNAL RH (C) |
| 25           | SHIELD        | SHIELD                        |
| 26           | SHIELD        | SHIELD                        |
| 27           | SB            | MODE CHANGE SIGNAL            |
| 28           | P             | REQUEST (SAT->CONT)           |
| 29           | G             | COMM (SAT->CONT)              |
| 30           | L             | COMM (CONT->SAT)              |

|    |        |                     |
|----|--------|---------------------|
| 14 | LG     | SIGNAL GND          |
| 15 | SR     | AUX IMAGE SIGNAL    |
| 16 | BR     | COMP SYNC           |
| 17 | G      | RGB (R.RED) SIGNAL  |
| 18 | D      | RGB (B.BLUE) SIGNAL |
| 19 | W      | RGB SYNC            |
| 20 | G      | VP                  |
| 21 | SHIELD | SHIELD              |
| 22 | BR     | COMM (DISP->CONT)   |
| 23 | SHIELD | SHIELD              |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 3            | L             | ACC                         |
| 6            | G             | AV COMM (H)                 |
| 8            | R             | AV COMM (L)                 |
| 9            | BR            | SW GND                      |
| 14           | SB            | EJECT SIGNAL                |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M83                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | SB            | AUX IMAGE SIGNAL            |
| 37           | V             | AUX IMAGE GND               |
| 38           | P             | RGB (B.BLUE) SIGNAL         |
| 39           | L             | RGB (G.GREEN) SIGNAL        |
| 40           | G             | RGB (R.RED) SIGNAL          |
| 41           | W             | RGB SYNC                    |
| 42           | SHIELD        | SHIELD                      |
| 43           | B             | RGB AREA (YS) SIGNAL        |
| 44           | BR            | COMM (DISP->CONT)           |
| 45           | R             | HP                          |
| 46           | LG            | SIGNAL GND                  |

|                |                      |
|----------------|----------------------|
| Connector No.  | M72                  |
| Connector Name | MULTIFUNCTION SWITCH |
| Connector Type | TH16FW-NH            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6            | P             | STRG SW A                   |
| 7            | V             | ACC                         |
| 9            | L             | ILLUMINATION                |
| 15           | B             | STRG SW GND                 |
| 16           | L             | STRG SW B                   |
| 19           | Y             | BATTERY                     |
| 20           | B             | GND                         |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M84                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH16FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 66           | G             | AUX IMAGE SIGNAL            |
| 73           | SHIELD        | SHIELD                      |
| 74           | R             | AUX IMAGE GND               |

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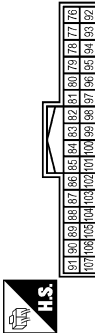
# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

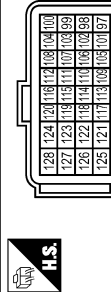
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M85                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification]    |
|--------------|---------------|--------------------------------|
| 79           | P             | TEL VOICE SIGNAL (-)           |
| 80           | L             | TEL VOICE SIGNAL (+)           |
| 81           | SHIELD        | SHIELD                         |
| 82           | G             | iPod SOUND SIGNAL RH (-)       |
| 83           | B             | iPod SOUND SIGNAL RH (+)       |
| 84           | SHIELD        | SHIELD                         |
| 85           | B             | GND                            |
| 86           | L             | CAN-H                          |
| 87           | P             | CAN-L                          |
| 88           | V             | AV COMM (H) [With BOSE system] |
| 89           | LG            | AV COMM (L) [With BOSE system] |

|                |                    |
|----------------|--------------------|
| Connector No.  | M107               |
| Connector Name | ECM                |
| Connector Type | RI24FGY-R28-R-LH-Z |

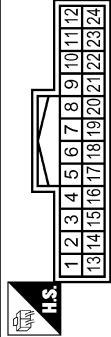


| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 113          | P             | VEHCAN-LI                   |
| 114          | L             | VEHCAN-HI                   |

|     |        |                          |
|-----|--------|--------------------------|
| 90  | SB     | AV COMM (H)              |
| 91  | Y      | AV COMM (L)              |
| 95  | R      | AUX SOUND SIGNAL RH (+)  |
| 96  | W      | AUX SOUND SIGNAL LH (+)  |
| 97  | B      | SHIELD                   |
| 98  | W      | iPod SOUND SIGNAL LH (-) |
| 99  | R      | iPod SOUND SIGNAL LH (+) |
| 100 | SHIELD | SHIELD                   |
| 101 | BR     | SW GND                   |
| 103 | SB     | EJECT SIGNAL             |
| 104 | G      | IGNITION                 |
| 105 | O      | REVERSE                  |
| 106 | SB     | PARKING BRAKE            |
| 107 | GR     | VEHICLE SPEED (3-PULSE)  |



|                |              |
|----------------|--------------|
| Connector No.  | M111         |
| Connector Name | iPod ADAPTER |
| Connector Type | TH24FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | iPod SOUND SIGNAL LH (-)    |
| 2            | B             | iPod SOUND SIGNAL RH (+)    |
| 3            | V             | ACC                         |
| 4            | R             | AV COMM (L)                 |
| 5            | Y             | BATTERY                     |
| 8            | W             | CHARGE POWER                |
| 9            | P             | COMM (iPod ADAPTER->iPod)   |
| 10           | L             | COMM (iPod->iPod ADAPTER)   |
| 11           | O             | ACCESSORY IDENTITY          |
| 12           | W             | iPod SOUND SIGNAL RH (+)    |
| 13           | W             | iPod SOUND SIGNAL LH (-)    |

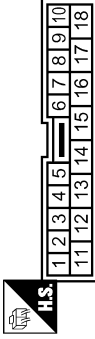
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| Connector No.  | M86                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH12FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 108          | BR            | SOUND SIGNAL REAR RH (+)    |
| 109          | R             | SOUND SIGNAL FRONT RH (+)   |
| 110          | SB            | AMP. ON SIGNAL              |
| 111          | B             | SHIELD                      |
| 112          | V             | SOUND SIGNAL REAR LH (+)    |
| 113          | O             | SOUND SIGNAL FRONT LH (+)   |
| 114          | Y             | SOUND SIGNAL REAR RH (-)    |
| 115          | G             | SOUND SIGNAL FRONT RH (-)   |
| 118          | LG            | SOUND SIGNAL REAR LH (-)    |
| 119          | W             | SOUND SIGNAL FRONT LH (-)   |

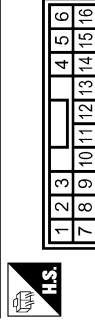
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| 14 | G      | iPod SOUND SIGNAL RH (-)    |
| 15 | SHIELD | SHIELD                      |
| 16 | G      | AV COMM (H)                 |
| 17 | BR     | SHIELD                      |
| 19 | SHIELD | SHIELD                      |
| 21 | W      | iPod CONNECTION RECOGNITION |
| 22 | G      | ACCESSORY DETECT            |
| 23 | R      | iPod SOUND SIGNAL GND       |
| 24 | B      | iPod SOUND SIGNAL LH (+)    |

|                |              |
|----------------|--------------|
| Connector No.  | M106         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MF-N5B   |



| Terminal No. | Color of Wire | Signal Name [Specification]  |
|--------------|---------------|------------------------------|
| 1            | B             | - [Without rear view camera] |
| 2            | W             | - [Without rear view camera] |
| 3            | R             | - [Without rear view camera] |

|                |                      |
|----------------|----------------------|
| Connector No.  | M112                 |
| Connector Name | iPod SIDE (WITH A/T) |
| Connector Type | IP16FGY              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | iPod SOUND SIGNAL LH (+)    |
| 2            | R             | iPod SOUND SIGNAL GND       |
| 5            | L             | COMM (iPod->iPod ADAPTER)   |
| 6            | P             | COMM (iPod ADAPTER->iPod)   |
| 7            | W             | iPod SOUND SIGNAL RH (-)    |
| 9            | W             | iPod CONNECTION RECOGNITION |
| 10           | BR            | GND                         |
| 12           | W             | CHARGE POWER                |
| 14           | SHIELD        | SHIELD                      |
| 15           | G             | ACCESSORY DETECT            |
| 16           | O             | ACCESSORY IDENTITY          |

# SATELLITE RADIO TUNER

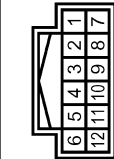
< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

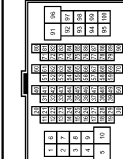
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| 12 | P | - |
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| Connector No.  | M114         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12FW-NH    |



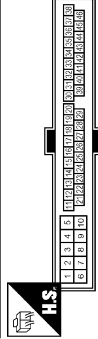
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | G             | -                           |
| 3            | O             | -                           |
| 4            | SHIELD        | -                           |
| 5            | W             | -                           |
| 6            | B             | -                           |
| 7            | R             | -                           |
| 8            | BR            | -                           |
| 9            | W             | -                           |
| 10           | W             | -                           |
| 11           | SHIELD        | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | M117            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH60MW-CS16-TM4 |



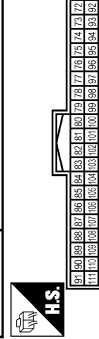
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | SB            | -                           |
| 32           | Y             | -                           |
| 33           | V             | -                           |
| 34           | LG            | -                           |
| 40           | Y             | -                           |
| 41           | G             | -                           |
| 42           | LG            | -                           |
| 43           | B             | -                           |
| 44           | R             | -                           |
| 45           | W             | -                           |
| 46           | SHIELD        | -                           |

|                |              |
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| Connector No.  | M116         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK38MW-NS/D  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 30           | LG            | -                           |
| 31           | W             | -                           |
| 41           | O             | -                           |

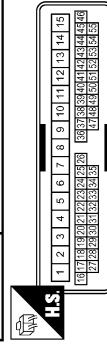
|                |                           |
|----------------|---------------------------|
| Connector No.  | M122                      |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH                 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 90           | P             | CAN-L                       |
| 91           | L             | CAN-H                       |

|     |        |   |
|-----|--------|---|
| 47  | P      | - |
| 48  | L      | - |
| 49  | SHIELD | - |
| 50  | V      | - |
| 80  | W      | - |
| 81  | SHIELD | - |
| 82  | P      | - |
| 83  | L      | - |
| 84  | G      | - |
| 85  | SHIELD | - |
| 86  | W      | - |
| 87  | B      | - |
| 88  | R      | - |
| 89  | G      | - |
| 90  | Y      | - |
| 99  | P      | - |
| 100 | L      | - |

|                |              |
|----------------|--------------|
| Connector No.  | M124         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 36           | R             | -                           |
| 37           | BR            | -                           |

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# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

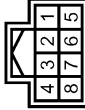
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M154                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH A/T) |
| Connector Type | A08FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | SOUND SIGNAL RH (+)         |
| 2            | B             | SOUND SIGNAL GND            |
| 3            | W             | SOUND SIGNAL LH (+)         |
| 7            | G             | AUX IMAGE SIGNAL            |
| 8            | R             | AUX IMAGE GND               |

|                |              |
|----------------|--------------|
| Connector No.  | M155         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | R             | -                           |
| 4            | W             | -                           |
| 5            | B             | -                           |
| 6            | B             | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M181         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MM-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | G             | -                           |
| 3            | O             | -                           |
| 4            | SHIELD        | -                           |
| 5            | GR            | -                           |
| 6            | BR            | -                           |
| 7            | W             | -                           |
| 8            | BR            | -                           |
| 9            | L             | -                           |
| 10           | W             | -                           |
| 11           | SHIELD        | -                           |

|    |   |   |
|----|---|---|
| 12 | P | - |
|----|---|---|

|                |                      |
|----------------|----------------------|
| Connector No.  | M182                 |
| Connector Name | iPod SIDE (WITH M/T) |
| Connector Type | IP18FGY              |



| Terminal No. | Color of Wire | Signal Name [Specification]     |
|--------------|---------------|---------------------------------|
| 1            | BR            | iPod SOUND SIGNAL LH (+)        |
| 2            | W             | iPod SOUND SIGNAL GND           |
| 5            | L             | COMM (iPod->iPod ADAPTER)       |
| 6            | P             | COMM (iPod ADAPTER->iPod)       |
| 7            | GR            | iPod SOUND SIGNAL RH (+)        |
| 9            | W             | iPod CONNECTION RECOGNITION GND |
| 12           | L             | CHARGE POWER                    |
| 14           | SHIELD        | SHIELD                          |
| 15           | G             | ACCESSORY DETECT                |
| 16           | O             | ACCESSORY IDENTITY              |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M303                              |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY                           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 14           | W             | -                           |
| 15           | L             | -                           |
| 17           | BR            | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M361         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08MM-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | BR            | - [Without NAV]             |
| 4            | Y             | - [Without NAV]             |
| 5            | SHIELD        | -                           |
| 6            | SHIELD        | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M362                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH M/T) |
| Connector Type | A08FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | BR            | - [Without NAV]             |
| 2            | B             | -                           |
| 3            | Y             | - [Without NAV]             |
| 7            | G             | -                           |
| 8            | R             | -                           |

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# SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M370                           |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | GT13SH-2 / S-HU                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | FM SUB                      |
| 34           | -             | AM-FM MAIN                  |
| 35           | -             | ANTENNA AMP. ON SIGNAL      |

|                |                 |
|----------------|-----------------|
| Connector No.  | M375            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | GT13SC-2 / S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |                   |
|----------------|-------------------|
| Connector No.  | M376              |
| Connector Name | WIRE TO WIRE      |
| Connector Type | GT13SCH-2 / PP-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | M378            |
| Connector Name | ANTENNA AMP.    |
| Connector Type | GT13SC-1 / S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | ANTENNA AMP. ON SIGNAL      |
| 2            | -             | AM-FM MAIN                  |

|                |                     |
|----------------|---------------------|
| Connector No.  | M379                |
| Connector Name | GLASS ANTENNA (SUB) |
| Connector Type | P01FB-A             |



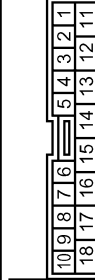
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

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|----------------|----------------------|
| Connector No.  | M381                 |
| Connector Name | GLASS ANTENNA (MAIN) |
| Connector Type | P01FB-A              |



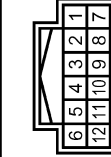
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | R1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TR10FW-NSS   |



| Terminal No. | Color of Wire | Signal Name [Specification]  |
|--------------|---------------|------------------------------|
| 1            | O             | - [Without rear view camera] |
| 2            | W             | - [Without rear view camera] |
| 3            | SHIELD        | -                            |

|                |              |
|----------------|--------------|
| Connector No.  | R2           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TR12FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification]  |
|--------------|---------------|------------------------------|
| 3            | SHIELD        | -                            |
| 4            | O             | - [Without rear view camera] |
| 5            | W             | - [Without rear view camera] |

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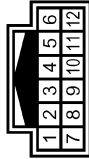
# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |              |
|----------------|--------------|
| Connector No.  | R11          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | SHIELD        | -                           |
| 4            | R             | -                           |
| 5            | G             | -                           |

|                |            |
|----------------|------------|
| Connector No.  | R17        |
| Connector Name | MICROPHONE |
| Connector Type | TKGQFW     |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | MICROPHONE SIGNAL           |
| 2            | SHIELD        | SHIELD                      |
| 4            | G             | MICROPHONE VCC              |



# TEL ADAPTER UNIT

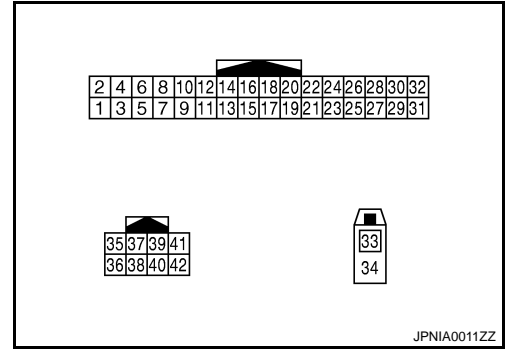
< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## TEL ADAPTER UNIT

Reference Value

INFOID:000000004238635



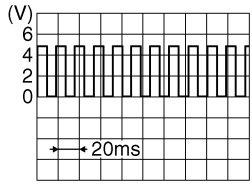
### PHYSICAL VALUES

| Terminal<br>(Wire color) |           | Description          |                  | Condition                 |  | Reference value<br>(Approx.)                |
|--------------------------|-----------|----------------------|------------------|---------------------------|--|---|
| +                        | -         | Signal name          | Input/<br>Output |                           |  |   |
| 1<br>(V)                 | Ground    | Battery power supply | Input            | Ignition<br>switch<br>OFF | —  | Battery voltage                             |
| 2<br>(LG)                | Ground    | ACC power supply     | Input            | Ignition<br>switch<br>ACC | —  | Battery voltage                             |
| 3<br>(W)                 | Ground    | Ignition signal      | Input            | Ignition<br>switch<br>ON  | —  | Battery voltage                             |
| 4<br>(B)                 | Ground    | GND                  | —                | Ignition<br>switch<br>ON  | —  | 0 V   |
| 5                        | —         | Shield               | —                | —                         | —  | —   |
| 6                        | —         | Shield               | —                | —                         | —  | —   |
| 7<br>(BR)                | 8<br>(O)  | Microphone signal    | Input            | Ignition<br>switch<br>ON  | Give a voice   | <p style="text-align: right;">PKIB5037J</p> |
| 8<br>(O)                 | Ground    | Microphone GND       | —                | Ignition<br>switch<br>ON  | —  | 0 V   |
| 9<br>(Y)                 | 10<br>(G) | TEL voice signal     | Output           | Ignition<br>switch<br>ON  | During voice guide output<br>with the  switch<br>pressed | <p style="text-align: right;">SKIB3609E</p> |

# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

| Terminal<br>(Wire color) |          | Description                       |                  | Condition                |  | Reference value<br>(Approx.)  |
|--------------------------|----------|-----------------------------------|------------------|--------------------------|--|---|
| +                        | -        | Signal name                       | Input/<br>Output |                          |  |   |
| 14<br>(B)                | Ground   | GND                               | —                | Ignition<br>switch<br>ON | —  | 0 V   |
| 19<br>(B)                | Ground   | GND                               | —                | Ignition<br>switch<br>ON | —  | 0 V   |
| 23<br>(B)                | Ground   | Control signal                    | Input            | Ignition<br>switch<br>ON | —  | 0 V   |
| 24<br>(B)                | Ground   | Control signal                    | Input            | Ignition<br>switch<br>ON | —  | 0 V   |
| 28<br>(P)                | Ground   | Vehicle speed signal<br>(8-pulse) | Input            | Ignition<br>switch<br>ON | When vehicle speed is ap-<br>prox. 40 km/h (25MPH) | <b>NOTE:</b><br>Maximum voltage may be 12 V<br>due to specifications (connected<br>units).<br> |
| 29<br>(Y)                | 8<br>(O) | Microphone VCC                    | Output           | Ignition<br>switch<br>ON | —  | 5 V   |
| 33                       | —        | TEL antenna                       | Input            | —                        | —  | —   |
| 34                       | —        | Shield                            | —                | —                        | —  | —   |
| 35<br>(L)                | —        | AV communication signal<br>(H)    | Input/<br>Output | —                        | —  | —   |
| 36<br>(P)                | —        | AV communication signal<br>(L)    | Input/<br>Output | —                        | —  | —   |

## Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

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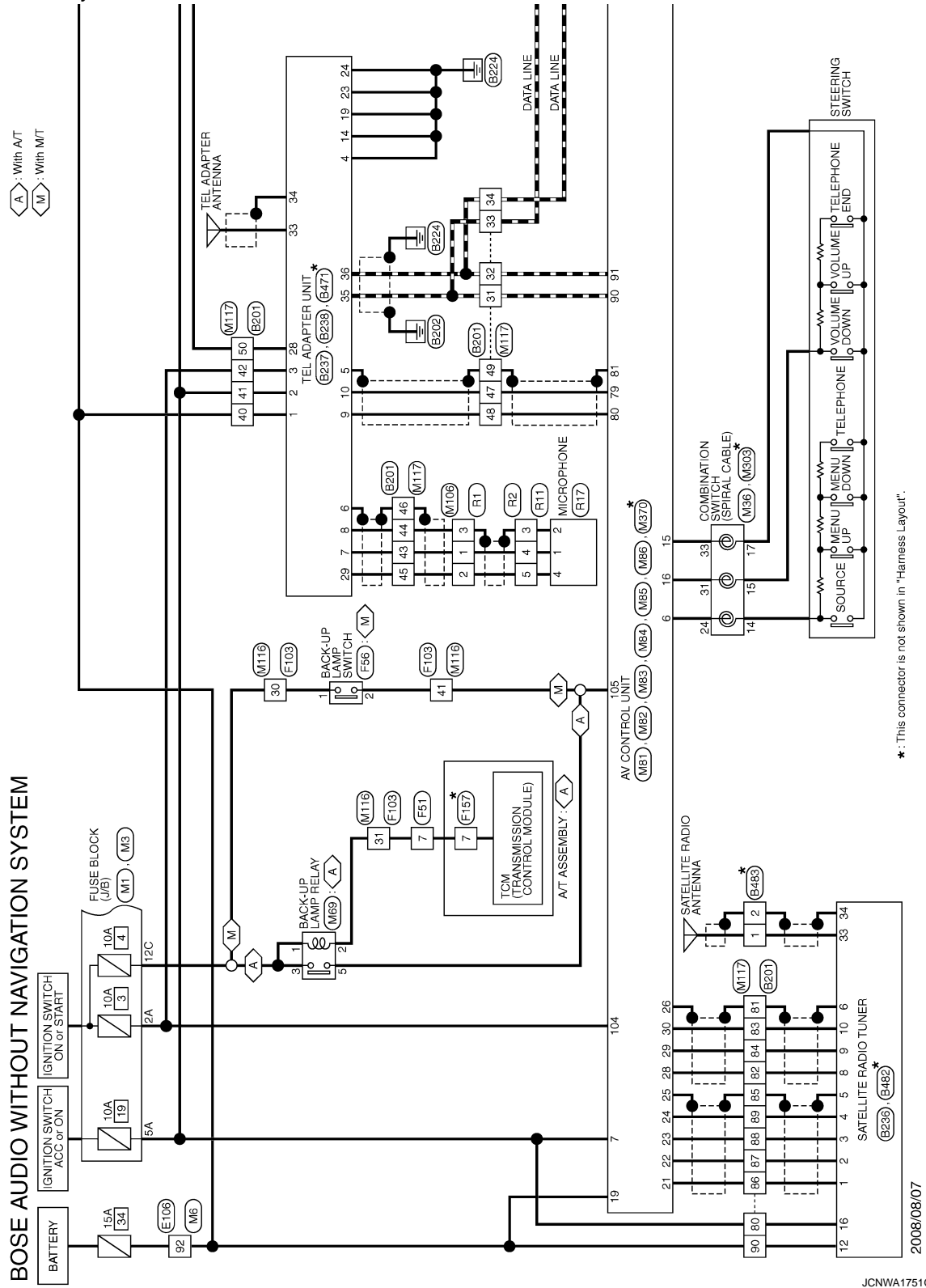
**NOTE:**

# TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.



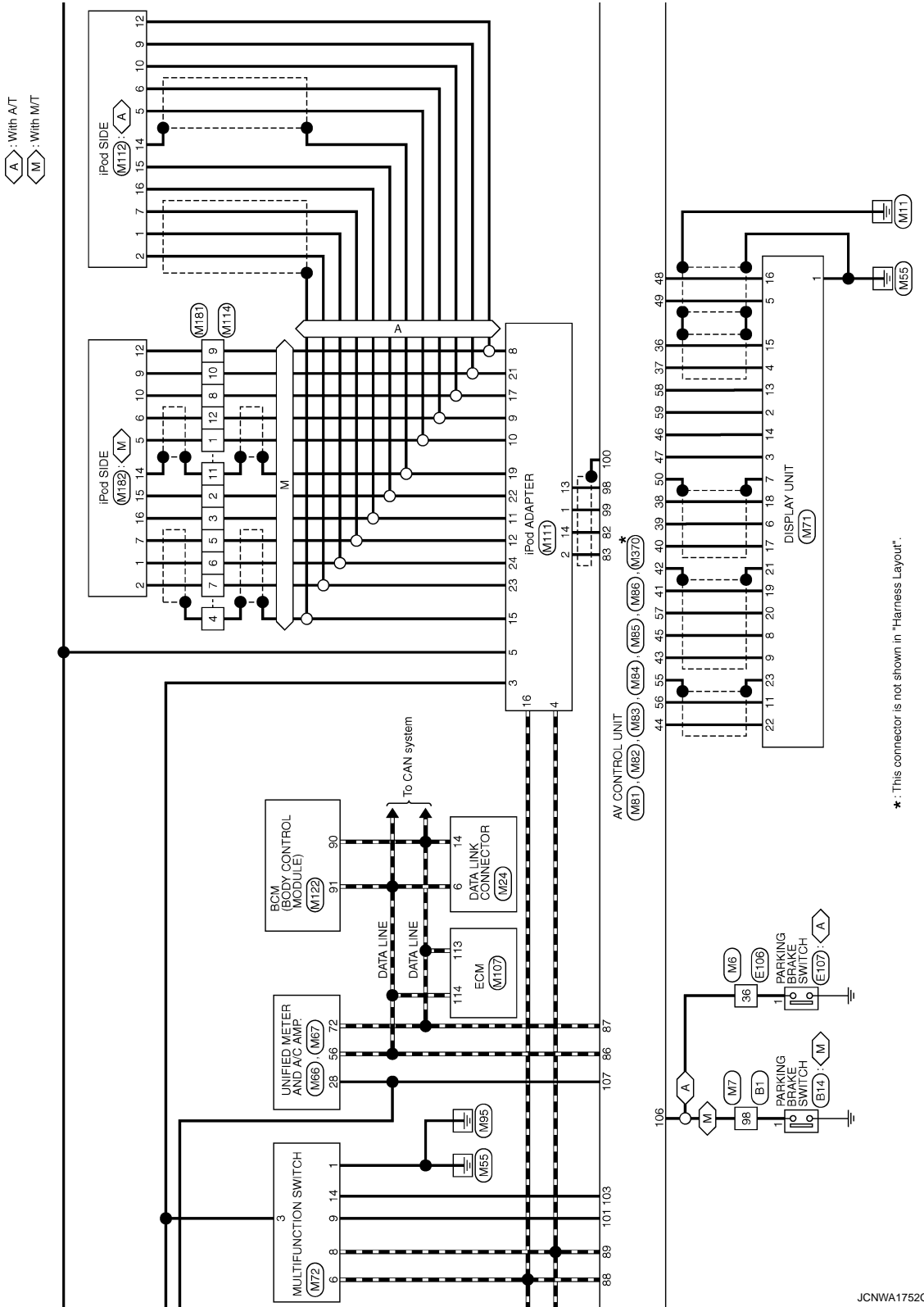
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# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

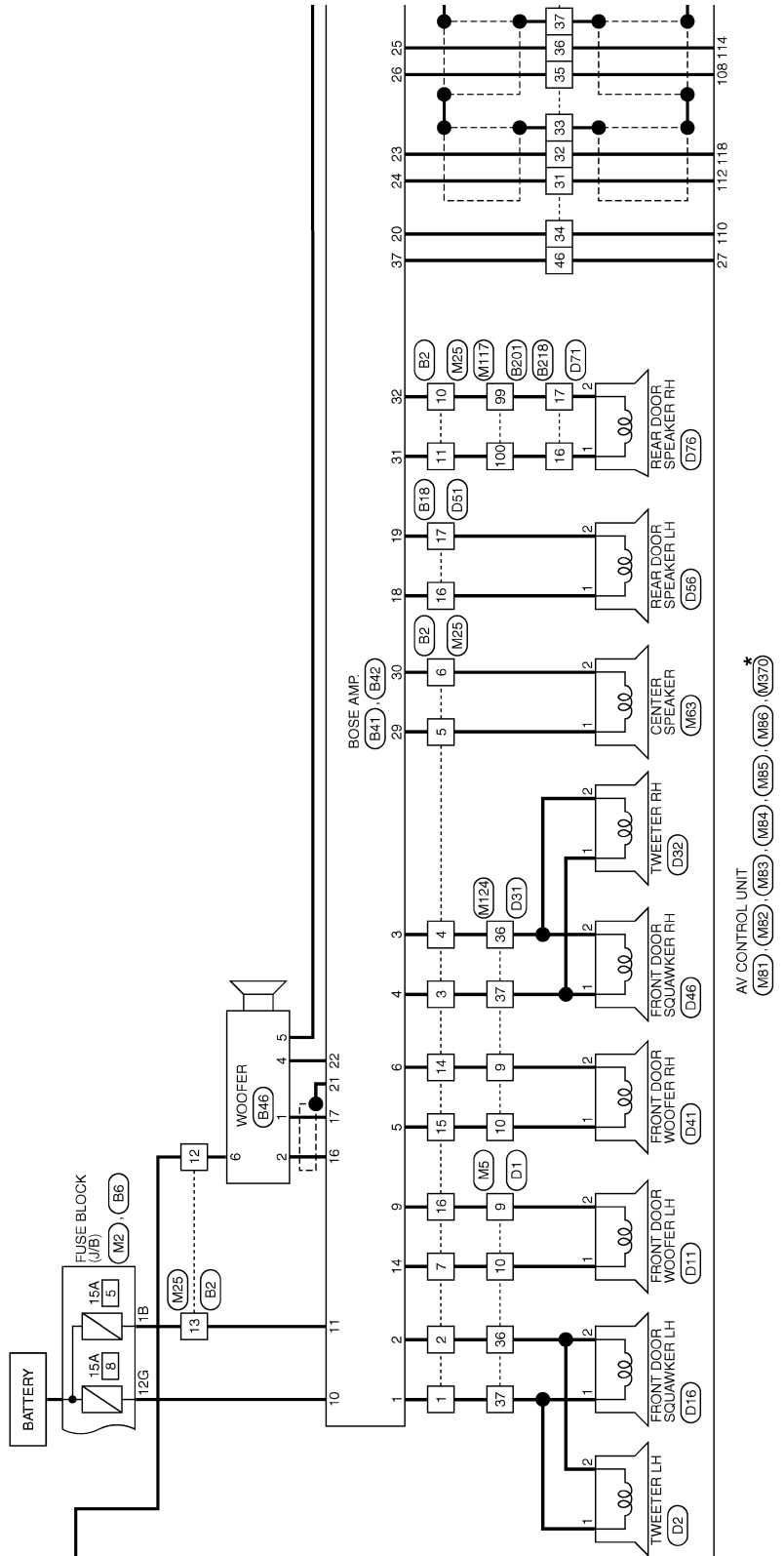
[BOSE AUDIO WITHOUT NAVIGATION]



# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]



\*: This connector is not shown in "Harness Layout".

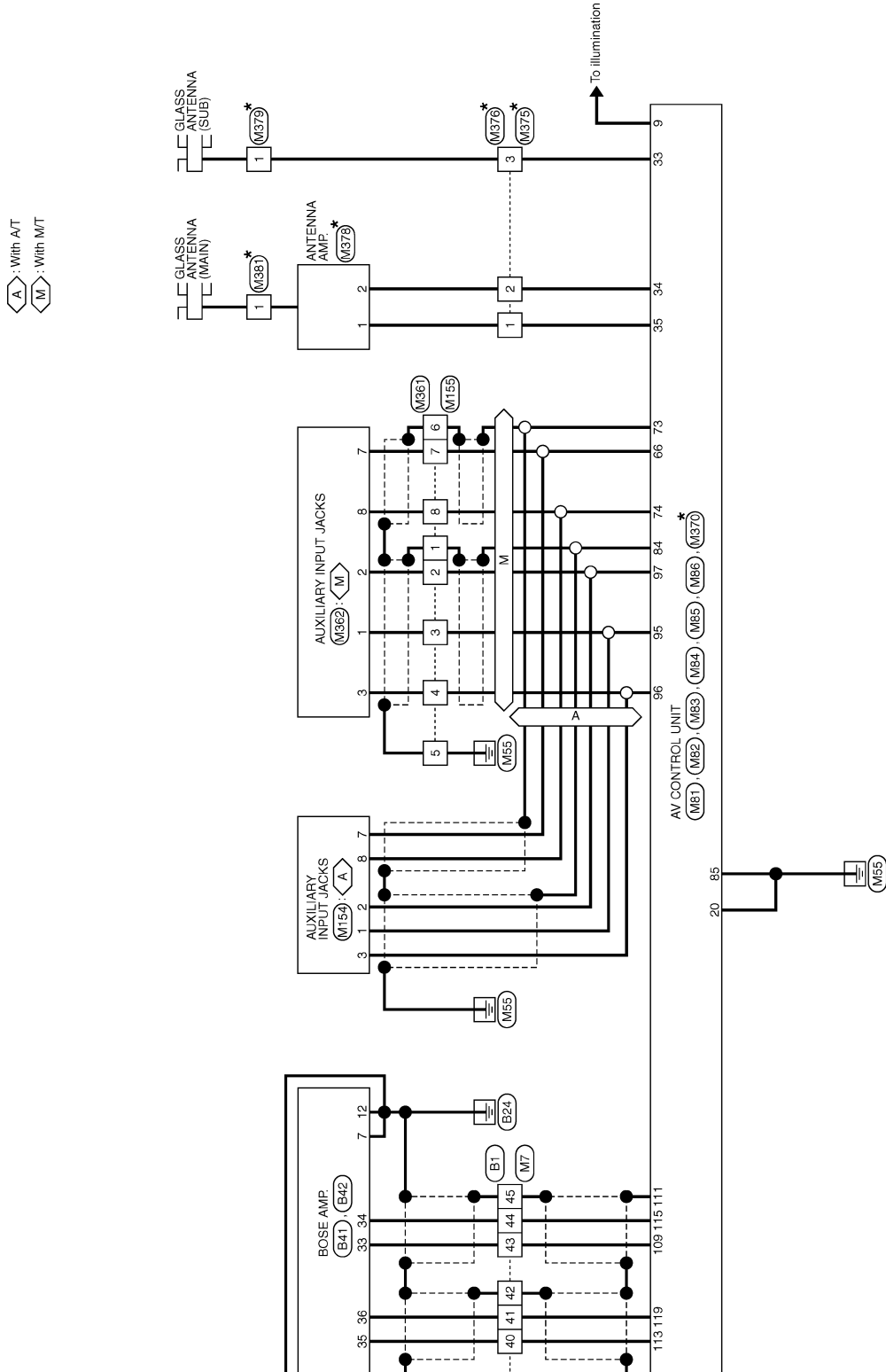
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# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]



\* : This connector is not shown in "Harness Layout".

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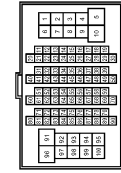
# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                 |
|----------------|-----------------|
| Connector No.  | B1              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH00FW-CS16-TM4 |

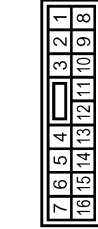


| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | V             | -                           |
| 32           | SB            | -                           |
| 33           | SHIELD        | -                           |
| 34           | W             | -                           |
| 35           | BR            | -                           |
| 36           | Y             | -                           |
| 37           | SHIELD        | -                           |
| 40           | P             | -                           |
| 41           | L             | -                           |
| 42           | SHIELD        | -                           |
| 43           | R             | -                           |

|    |        |   |
|----|--------|---|
| 44 | G      | - |
| 45 | SHIELD | - |
| 46 | SB     | - |
| 98 | V      | - |



|                |              |
|----------------|--------------|
| Connector No.  | B2           |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16FW-CS    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | V             | -                           |
| 4            | LG            | -                           |
| 5            | L             | -                           |
| 6            | O             | -                           |
| 7            | B             | -                           |
| 10           | Y             | -                           |
| 11           | LG            | -                           |
| 12           | P             | -                           |
| 13           | GR            | -                           |

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| Connector No.  | B6               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | MS12FB-CS        |



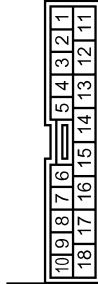
|                |                                 |
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| Connector No.  | B14                             |
| Connector Name | PARKING BRAKE SWITCH (WITH M/T) |
| Connector Type | P01FB-A                         |



|              |     |   |   |
|--------------|-----|---|---|
| Terminal No. | 12G | Y | - |
|--------------|-----|---|---|

|              |   |   |   |
|--------------|---|---|---|
| Terminal No. | 1 | V | - |
|--------------|---|---|---|

|                |              |
|----------------|--------------|
| Connector No.  | B18          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TR10FW-NS8   |



|              |    |   |   |
|--------------|----|---|---|
| Terminal No. | 16 | L | - |
| Terminal No. | 17 | P | - |

|    |   |   |
|----|---|---|
| 14 | R | - |
| 15 | G | - |
| 16 | W | - |

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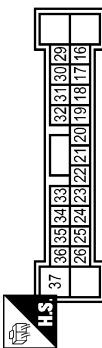
# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |               |
|----------------|---------------|
| Connector No.  | B41           |
| Connector Name | BOSE AMP.     |
| Connector Type | SCA19FBR-SG44 |



| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 16           | SB            | SOUND SIGNAL WOOFER (-)       |
| 17           | V             | SOUND SIGNAL WOOFER (-)       |
| 18           | L             | SOUND SIGNAL REAR DOOR LH (+) |
| 19           | P             | SOUND SIGNAL REAR DOOR LH (-) |
| 20           | W             | AMP. ON SIGNAL                |
| 21           | SHIELD        | SHIELD                        |
| 22           | GR            | WOOFER AMP. ON SIGNAL         |
| 23           | SB            | SOUND SIGNAL REAR LH (-)      |
| 24           | V             | SOUND SIGNAL REAR LH (+)      |
| 25           | Y             | SOUND SIGNAL REAR RH (-)      |
| 26           | BR            | SOUND SIGNAL REAR RH (+)      |

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| Connector No.  | B46        |
| Connector Name | WOOFER     |
| Connector Type | MS08FBR-CS |



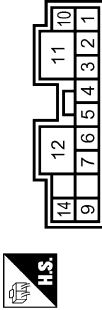
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | V             | SOUND SIGNAL WOOFER (-)     |
| 2            | SB            | SOUND SIGNAL WOOFER (+)     |
| 4            | GR            | WOOFER AMP. ON SIGNAL       |
| 5            | B             | GND                         |
| 6            | P             | BATTERY                     |

|    |    |                               |
|----|----|-------------------------------|
| 29 | L  | SOUND SIGNAL CENTER (+)       |
| 30 | O  | SOUND SIGNAL CENTER (-)       |
| 31 | LG | SOUND SIGNAL REAR DOOR RH (+) |
| 32 | Y  | SOUND SIGNAL REAR DOOR RH (-) |
| 33 | R  | SOUND SIGNAL FRONT RH (+)     |
| 34 | G  | SOUND SIGNAL FRONT RH (-)     |
| 35 | P  | SOUND SIGNAL FRONT LH (+)     |
| 36 | L  | SOUND SIGNAL FRONT LH (-)     |
| 37 | SB | MODE CHANGE SIGNAL            |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | FRONT DOOR SQUAWKER LH (+)  |
| 2            | W             | FRONT DOOR SQUAWKER LH (-)  |
| 3            | LG            | FRONT DOOR SQUAWKER RH (-)  |
| 4            | V             | FRONT DOOR SQUAWKER RH (+)  |
| 5            | G             | FRONT DOOR WOOFER RH (+)    |
| 6            | R             | FRONT DOOR WOOFER RH (-)    |
| 7            | B             | GND                         |
| 9            | Y             | FRONT DOOR WOOFER LH (-)    |
| 10           | W             | BATTERY                     |
| 11           | GR            | BATTERY                     |
| 12           | B             | GND                         |

|     |        |   |
|-----|--------|---|
| 47  | G      | - |
| 48  | Y      | - |
| 49  | SHIELD | - |
| 50  | P      | - |
| 80  | O      | - |
| 81  | SHIELD | - |
| 82  | G      | - |
| 83  | P      | - |
| 84  | L      | - |
| 85  | SHIELD | - |
| 86  | G      | - |
| 87  | R      | - |
| 88  | W      | - |
| 89  | B      | - |
| 90  | Y      | - |
| 99  | P      | - |
| 100 | L      | - |

|                |               |
|----------------|---------------|
| Connector No.  | B42           |
| Connector Name | BOSE AMP.     |
| Connector Type | SCA12FBR-SJA2 |



|                |              |
|----------------|--------------|
| Connector No.  | B218         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10PW-NSS   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | L             | -                           |
| 17           | P             | -                           |

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# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                       |
|----------------|-----------------------|
| Connector No.  | B236                  |
| Connector Name | SATELLITE RADIO TUNER |
| Connector Type | TA6FW                 |



|   |   |   |    |    |    |    |    |    |    |
|---|---|---|----|----|----|----|----|----|----|
| 2 | 4 | 6 | 12 | 14 | 16 |    |    |    |    |
| 1 | 3 | 5 | 7  | 8  | 9  | 10 | 11 | 13 | 15 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | G             | SOUND SIGNAL LH (-)         |
| 2            | R             | SOUND SIGNAL LH (+)         |
| 3            | W             | SOUND SIGNAL RH (-)         |
| 4            | B             | SOUND SIGNAL RH (+)         |
| 5            | SHIELD        | SHIELD                      |
| 6            | SHIELD        | SHIELD                      |
| 8            | G             | REQUEST (SAT->CONT)         |
| 9            | L             | COMM (SAT->CONT)            |
| 10           | P             | COMM (CONT->SAT)            |
| 12           | Y             | BATTERY                     |
| 16           | O             | ACC                         |



|                |                  |
|----------------|------------------|
| Connector No.  | B471             |
| Connector Name | TEL ADAPTER UNIT |
| Connector Type | GT16C-1S-HU      |

|                |                  |
|----------------|------------------|
| Connector No.  | B237             |
| Connector Name | TEL ADAPTER UNIT |
| Connector Type | TH22FW-NH        |



|   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |
|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|
| 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 |
| 1 | 3 | 5 | 7 | 9  | 11 | 13 | 15 | 17 | 19 | 21 | 23 | 25 | 27 | 29 | 31 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | V             | BATTERY                     |
| 2            | LG            | ACC                         |
| 3            | W             | IGNITION                    |
| 4            | B             | GND                         |
| 5            | SHIELD        | SHIELD                      |
| 6            | SHIELD        | SHIELD                      |
| 7            | BR            | MICROPHONE SIGNAL           |
| 8            | O             | MICROPHONE GND              |
| 9            | Y             | TEL VOICE SIGNAL (+)        |
| 10           | G             | TEL VOICE SIGNAL (-)        |
| 14           | B             | GND                         |



|                |                       |
|----------------|-----------------------|
| Connector No.  | B482                  |
| Connector Name | SATELLITE RADIO TUNER |
| Connector Type | -                     |

|    |   |                         |
|----|---|-------------------------|
| 19 | B | GND                     |
| 23 | B | CONTROL SIGNAL          |
| 24 | B | CONTROL SIGNAL          |
| 28 | P | VEHICLE SPEED (8-PULSE) |
| 29 | Y | MICROPHONE VCC          |

|                |                  |
|----------------|------------------|
| Connector No.  | B238             |
| Connector Name | TEL ADAPTER UNIT |
| Connector Type | TH48FW-NH        |



|    |    |    |    |
|----|----|----|----|
| 35 | 37 | 39 | 41 |
| 36 | 38 | 40 | 42 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 35           | L             | AV COMM (H)                 |
| 36           | P             | AV COMM (L)                 |

|                |                         |
|----------------|-------------------------|
| Connector No.  | B483                    |
| Connector Name | SATELLITE RADIO ANTENNA |
| Connector Type | GT16-1PP-HU             |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH48FW-CS15  |



|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 15 | 14 | 13 | 12 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3  | 2  | 1  |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 36           | W             | -                           |
| 37           | L             | -                           |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | SATELLITE ANTENNA           |
| 34           | SHIELD        | SHIELD                      |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | TEL ANTENNA                 |
| 34           | SHIELD        | SHIELD                      |

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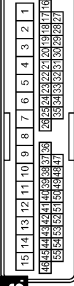







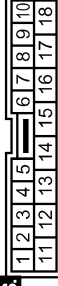
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# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                      |  |                               |   |   |              |               |                             |
|----------------------|--|-------------------------------|---|---|--------------|---------------|-----------------------------|
| Connector No.<br>D2  | Connector Name<br>TWEETER LH             | Connector Type<br>TK02MBR-P   |  |  | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 1            | L             |                             |
|                      |  |                               |   |   | 2            | W             |                             |
| Connector No.<br>D11 | Connector Name<br>FRONT DOOR WOOFER LH   | Connector Type<br>NS02FW-CS   |  |  | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 1            | G             |                             |
|                      |  |                               |   |   | 2            | R             |                             |
| Connector No.<br>D16 | Connector Name<br>FRONT DOOR SQUAWKER LH | Connector Type<br>TK02FBR     |    |    | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 1            | L             |                             |
|                      |  |                               |   |   | 2            | W             |                             |
| Connector No.<br>D31 | Connector Name<br>WIRE TO WIRE           | Connector Type<br>TH40FY-CS/5 |    |    | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 9            | R             |                             |
|                      |  |                               |   |   | 10           | G             |                             |
|                      |  |                               |   |   | 36           | W             |                             |
|                      |  |                               |   |   | 37           | L             |                             |
| Connector No.<br>D32 | Connector Name<br>TWEETER RH             | Connector Type<br>TK02MBR-P   |  |  | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 1            | L             |                             |
|                      |  |                               |   |   | 2            | W             |                             |
| Connector No.<br>D41 | Connector Name<br>FRONT DOOR WOOFER RH   | Connector Type<br>NS02FW-CS   |  |  | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 1            | G             |                             |
|                      |  |                               |   |   | 2            | R             |                             |
| Connector No.<br>D46 | Connector Name<br>FRONT DOOR SQUAWKER RH | Connector Type<br>TK02FBR     |    |    | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 1            | L             |                             |
|                      |  |                               |   |   | 2            | W             |                             |
| Connector No.<br>D51 | Connector Name<br>WIRE TO WIRE           | Connector Type<br>TK10MP-NS   |    |    | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 16           | LG            |                             |
|                      |  |                               |   |   | 17           | Y             |                             |

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# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

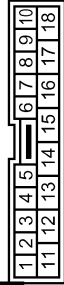
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                      |
|----------------|----------------------|
| Connector No.  | D16                  |
| Connector Name | REAR DOOR SPEAKER LH |
| Connector Type | NS02FBR-CS           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | LG            | -                           |
| 2            | Y             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D71          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MW-NS    |



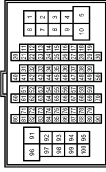
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | L             | -                           |
| 17           | P             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | D76                  |
| Connector Name | REAR DOOR SPEAKER RH |
| Connector Type | NS02FBR-CS           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | P             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | E106            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH80FY-CS16-TM4 |



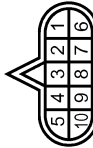
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | O             | -                           |
| 92           | LG            | -                           |

|                |                                 |
|----------------|---------------------------------|
| Connector No.  | E107                            |
| Connector Name | PARKING BRAKE SWITCH (WITH A/T) |
| Connector Type | TB01FW                          |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | O             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | F51          |
| Connector Name | A/T ASSEMBLY |
| Connector Type | RK10FG-DGY   |



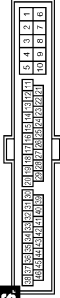
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 7            | R             | -                           |

|                |                     |
|----------------|---------------------|
| Connector No.  | F56                 |
| Connector Name | BACK-UP LAMP SWITCH |
| Connector Type | RK02FB              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | O             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | F103         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK38FY-NS10  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 30           | R             | -                           |
| 31           | R             | -                           |
| 41           | O             | -                           |

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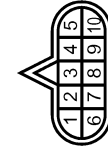
# TEL ADAPTER UNIT

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[BOSE AUDIO WITHOUT NAVIGATION]

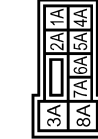
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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| Connector No.  | F157                              |
| Connector Name | TOM (TRANSMISSION CONTROL MODULE) |
| Connector Type | SPT0FG                            |



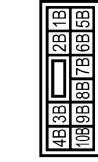
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| Terminal No. | Color of Wire | Signal Name [Specification] |
| 7            | L             | REV LAMP RLY                |

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| Connector No.  | M1               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS08FW-M2        |



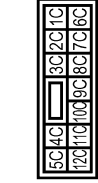
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| Terminal No. | Color of Wire | Signal Name [Specification] |
| 2A           | G             |                             |
| 5A           | L             |                             |

|                |                  |
|----------------|------------------|
| Connector No.  | M2               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FW-CS        |



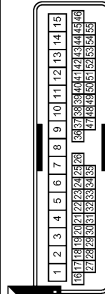
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| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1B           | SB            |                             |

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| Connector No.  | M3               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS        |



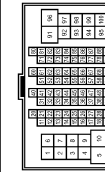
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| Terminal No. | Color of Wire | Signal Name [Specification] |
| 12C          | R             |                             |

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|----------------|--------------|
| Connector No.  | M5           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH60MW-CS15  |



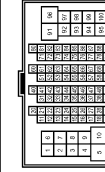
|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 9            | W             |                             |
| 10           | B             |                             |
| 36           | W             |                             |
| 37           | L             |                             |

|                |                 |
|----------------|-----------------|
| Connector No.  | M6              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH60MW-CS16-TM4 |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 36           | O             |                             |
| 92           | Y             |                             |

|                |                 |
|----------------|-----------------|
| Connector No.  | M7              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH60MW-CS16-TM4 |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 31           | V             |                             |
| 32           | LG            |                             |
| 33           | SHIELD        |                             |
| 34           | SB            |                             |
| 35           | BR            |                             |
| 36           | Y             |                             |
| 37           | SHIELD        |                             |
| 40           | O             |                             |
| 41           | W             |                             |
| 42           | SHIELD        |                             |
| 43           | R             |                             |

|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 44           | G             |                             |
| 45           | SHIELD        |                             |
| 46           | SB            |                             |
| 98           | O             |                             |

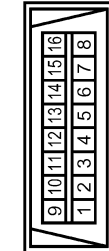
# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

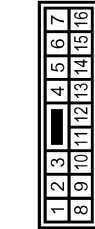
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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|----------------|---------------------|
| Connector No.  | M24                 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW-P            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6            | L             | -                           |
| 14           | P             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M25          |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MW-CS    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | BR            | -                           |
| 4            | R             | -                           |
| 5            | L             | -                           |
| 6            | LG            | -                           |
| 7            | B             | -                           |
| 10           | P             | -                           |
| 11           | L             | -                           |
| 12           | Y             | -                           |
| 13           | SB            | -                           |

|    |   |   |
|----|---|---|
| 14 | R | - |
| 15 | G | - |
| 16 | W | - |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M38                               |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY-TV                        |



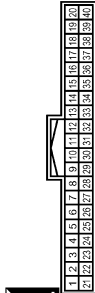
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24           | P             | -                           |
| 31           | L             | -                           |
| 33           | B             | -                           |

|                |                |
|----------------|----------------|
| Connector No.  | M63            |
| Connector Name | CENTER SPEAKER |
| Connector Type | TK02FBR        |



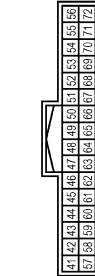
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | LG            | -                           |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M66                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH                  |



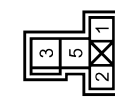
| Terminal No. | Color of Wire | Signal Name [Specification]    |
|--------------|---------------|--------------------------------|
| 28           | R             | VEHICLE SPEED SIGNAL (8-PULSE) |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M67                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH32FW-NH                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56           | L             | CAN-H                       |
| 72           | P             | CAN-L                       |

|                |                    |
|----------------|--------------------|
| Connector No.  | M69                |
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | MS02FL-M2-LC       |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | W             | -                           |
| 3            | LG            | -                           |
| 5            | O             | -                           |

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P

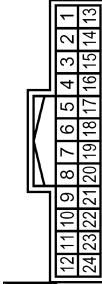
# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M71                         |
| Connector Name | DISPLAY UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 2            | Y             | INVERTER VCC                |
| 3            | O             | SIGNAL VCC                  |
| 4            | V             | AUX IMAGE GND               |
| 5            | Y             | SHIELD                      |
| 6            | L             | RGB (G.GREEN) SIGNAL        |
| 7            | SHIELD        | SHIELD                      |
| 8            | R             | HP                          |
| 9            | B             | RGB AREA (YS) SIGNAL        |
| 11           | Y             | COMM (CONT->DISP)           |
| 13           | BR            | INVERTER GND                |

|    |        |                     |
|----|--------|---------------------|
| 14 | LG     | SIGNAL GND          |
| 15 | SR     | AUX IMAGE SIGNAL    |
| 16 | BR     | COMP SYNC           |
| 17 | G      | RGB (R.RED) SIGNAL  |
| 18 | P      | RGB (B.BLUE) SIGNAL |
| 19 | W      | RGB SYNC            |
| 20 | G      | VP                  |
| 21 | SHIELD | SHIELD              |
| 22 | BR     | COMM (DISP->CONT)   |
| 23 | SHIELD | SHIELD              |

|                |                      |
|----------------|----------------------|
| Connector No.  | M72                  |
| Connector Name | MULTIFUNCTION SWITCH |
| Connector Type | TH16FW-NH            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 3            | L             | ACC                         |
| 6            | G             | AV COMM (H)                 |
| 8            | R             | AV COMM (L)                 |
| 9            | BR            | SW GND                      |
| 14           | SB            | EJECT SIGNAL                |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M81                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH18FW-CS2                     |



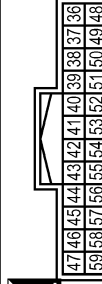
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6            | P             | STRG SW A                   |
| 7            | V             | ACC                         |
| 9            | L             | ILLUMINATION                |
| 15           | B             | STRG SW GND                 |
| 16           | L             | STRG SW B                   |
| 19           | Y             | BATTERY                     |
| 20           | B             | GND                         |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M82                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | A12FW                          |



| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 21           | W             | SATELLITE SOUND SIGNAL LH (C) |
| 22           | B             | SATELLITE SOUND SIGNAL LH (C) |
| 23           | R             | SATELLITE SOUND SIGNAL RH (C) |
| 24           | G             | SATELLITE SOUND SIGNAL RH (C) |
| 25           | SHIELD        | SHIELD                        |
| 26           | SHIELD        | SHIELD                        |
| 27           | SB            | MODE CHANGE SIGNAL            |
| 28           | P             | REQUEST (SAT->CONT)           |
| 29           | B             | COMM (SAT->CONT)              |
| 30           | L             | COMM (CONT->SAT)              |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M83                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH24FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | SB            | AUX IMAGE SIGNAL            |
| 37           | V             | AUX IMAGE GND               |
| 38           | P             | RGB (B.BLUE) SIGNAL         |
| 39           | L             | RGB (G.GREEN) SIGNAL        |
| 40           | G             | RGB (R.RED) SIGNAL          |
| 41           | W             | RGB SYNC                    |
| 42           | SHIELD        | SHIELD                      |
| 43           | B             | RGB AREA (YS) SIGNAL        |
| 44           | BR            | COMM (DISP->CONT)           |
| 45           | R             | HP                          |
| 46           | LG            | SIGNAL GND                  |

|    |        |                   |
|----|--------|-------------------|
| 47 | O      | SIGNAL VCC        |
| 48 | BR     | COMP SYNC         |
| 49 | Y      | SHIELD            |
| 50 | SHIELD | SHIELD            |
| 55 | SHIELD | SHIELD            |
| 56 | Y      | COMM (CONT->DISP) |
| 57 | G      | VP                |
| 58 | BR     | INVERTER GND      |
| 59 | Y      | INVERTER VCC      |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M84                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH16FW-NH                      |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 66           | G             | AUX IMAGE SIGNAL            |
| 73           | SHIELD        | SHIELD                      |
| 74           | R             | AUX IMAGE GND               |

# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M85                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH22FW-NH                      |

|                             |                      |                      |        |                          |                          |        |     |       |       |                                |                                |
|-----------------------------|----------------------|----------------------|--------|--------------------------|--------------------------|--------|-----|-------|-------|--------------------------------|--------------------------------|
| Terminal No.                | 79                   | 80                   | 81     | 82                       | 83                       | 84     | 85  | 86    | 87    | 88                             | 89                             |
| Color of Wire               | P                    | L                    | SHIELD | G                        | B                        | B      | B   | L     | P     | V                              | LG                             |
| Signal Name [Specification] | TEL VOICE SIGNAL (-) | TEL VOICE SIGNAL (+) | SHIELD | iPod SOUND SIGNAL RH (-) | iPod SOUND SIGNAL RH (+) | SHIELD | GND | CAN-H | CAN-L | AV COMM (H) [With BOSE system] | AV COMM (L) [With BOSE system] |



|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

|     |        |                          |
|-----|--------|--------------------------|
| 90  | SB     | AV COMM (H)              |
| 91  | Y      | AV COMM (L)              |
| 95  | P      | AUX SOUND SIGNAL RH (+)  |
| 96  | W      | AUX SOUND SIGNAL LH (+)  |
| 97  | B      | SHIELD                   |
| 98  | W      | iPod SOUND SIGNAL LH (+) |
| 99  | R      | iPod SOUND SIGNAL LH (-) |
| 100 | SHIELD | SHIELD                   |
| 101 | BR     | SW GND                   |
| 103 | SB     | EJECT SIGNAL             |
| 104 | G      | IGNITION                 |
| 105 | O      | REVERSE                  |
| 106 | SB     | PARKING BRAKE            |
| 107 | GR     | VEHICLE SPEED (8-PULSE)  |

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M86                            |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | TH12FW-NH                      |

|                             |                          |                           |               |        |                          |                           |                          |                           |                          |                           |
|-----------------------------|--------------------------|---------------------------|---------------|--------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|---------------------------|
| Terminal No.                | 108                      | 109                       | 110           | 111    | 112                      | 113                       | 114                      | 115                       | 118                      | 119                       |
| Color of Wire               | BR                       | R                         | SB            | B      | B                        | O                         | Y                        | G                         | LG                       | W                         |
| Signal Name [Specification] | SOUND SIGNAL REAR RH (+) | SOUND SIGNAL FRONT RH (+) | AMP_ON SIGNAL | SHIELD | SOUND SIGNAL REAR LH (+) | SOUND SIGNAL FRONT LH (+) | SOUND SIGNAL REAR RH (-) | SOUND SIGNAL FRONT RH (-) | SOUND SIGNAL REAR LH (-) | SOUND SIGNAL FRONT LH (-) |



|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

|                |              |
|----------------|--------------|
| Connector No.  | M106         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MPF-N5S  |



|   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|----|

|                             |                              |                              |                              |
|-----------------------------|------------------------------|------------------------------|------------------------------|
| Terminal No.                | 1                            | 2                            | 3                            |
| Color of Wire               | B                            | W                            | R                            |
| Signal Name [Specification] | - [Without rear view camera] | - [Without rear view camera] | - [Without rear view camera] |

|                |                    |
|----------------|--------------------|
| Connector No.  | M107               |
| Connector Name | ECM                |
| Connector Type | RH24FGY-R28-R-LH-Z |

|                             |           |           |        |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
|-----------------------------|-----------|-----------|--------|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
| Terminal No.                | 128       | 124       | 121    | 118 | 117 | 108 | 104 | 100 | 97 | 93 | 90 | 87 | 84 | 81 | 78 | 77 | 76 |
| Color of Wire               | L         | P         | SHIELD | G   | B   | B   | B   | L   | P  | V  | LG | W  | W  | W  | W  | W  | W  |
| Signal Name [Specification] | VEHCAN-L1 | VEHCAN-H1 |        |     |     |     |     |     |    |    |    |    |    |    |    |    |    |



|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

|                |              |
|----------------|--------------|
| Connector No.  | M111         |
| Connector Name | iPod ADAPTER |
| Connector Type | TH24FW-NH    |

|                             |                          |                          |     |             |         |              |                           |                           |                    |                          |                           |                           |                       |                          |    |    |    |    |    |    |    |    |    |    |
|-----------------------------|--------------------------|--------------------------|-----|-------------|---------|--------------|---------------------------|---------------------------|--------------------|--------------------------|---------------------------|---------------------------|-----------------------|--------------------------|----|----|----|----|----|----|----|----|----|----|
| Terminal No.                | 1                        | 2                        | 3   | 4           | 5       | 6            | 7                         | 8                         | 9                  | 10                       | 11                        | 12                        | 13                    | 14                       | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| Color of Wire               | R                        | B                        | V   | R           | ACC     | AV COMM (L)  | BATTERY                   | CHARGE POWER              | W                  | P                        | COMM (iPod ADAPTER->iPod) | COMM (iPod->iPod ADAPTER) | ACCESSORY IDENTITY    | W                        | W  | W  | W  | W  | W  | W  | W  | W  | W  | W  |
| Signal Name [Specification] | iPod SOUND SIGNAL LH (+) | iPod SOUND SIGNAL RH (+) | ACC | AV COMM (L) | BATTERY | CHARGE POWER | COMM (iPod ADAPTER->iPod) | COMM (iPod->iPod ADAPTER) | ACCESSORY IDENTITY | iPod SOUND SIGNAL LH (+) | iPod SOUND SIGNAL RH (+)  | ACCESSORY DETECT          | iPod SOUND SIGNAL GND | iPod SOUND SIGNAL LH (+) |    |    |    |    |    |    |    |    |    |    |



|                             |                          |                          |     |             |         |              |                           |                           |                    |                          |                           |                           |                       |                          |    |    |    |    |    |    |    |    |    |    |
|-----------------------------|--------------------------|--------------------------|-----|-------------|---------|--------------|---------------------------|---------------------------|--------------------|--------------------------|---------------------------|---------------------------|-----------------------|--------------------------|----|----|----|----|----|----|----|----|----|----|
| Terminal No.                | 1                        | 2                        | 3   | 4           | 5       | 6            | 7                         | 8                         | 9                  | 10                       | 11                        | 12                        | 13                    | 14                       | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| Color of Wire               | R                        | B                        | V   | R           | ACC     | AV COMM (L)  | BATTERY                   | CHARGE POWER              | W                  | P                        | COMM (iPod ADAPTER->iPod) | COMM (iPod->iPod ADAPTER) | ACCESSORY IDENTITY    | W                        | W  | W  | W  | W  | W  | W  | W  | W  | W  | W  |
| Signal Name [Specification] | iPod SOUND SIGNAL LH (+) | iPod SOUND SIGNAL RH (+) | ACC | AV COMM (L) | BATTERY | CHARGE POWER | COMM (iPod ADAPTER->iPod) | COMM (iPod->iPod ADAPTER) | ACCESSORY IDENTITY | iPod SOUND SIGNAL LH (+) | iPod SOUND SIGNAL RH (+)  | ACCESSORY DETECT          | iPod SOUND SIGNAL GND | iPod SOUND SIGNAL LH (+) |    |    |    |    |    |    |    |    |    |    |

|                             |                          |        |             |        |                             |                  |                       |                          |    |
|-----------------------------|--------------------------|--------|-------------|--------|-----------------------------|------------------|-----------------------|--------------------------|----|
| Terminal No.                | 14                       | 15     | 16          | 17     | 19                          | 21               | 22                    | 23                       | 24 |
| Color of Wire               | G                        | SHIELD | G           | BR     | SHIELD                      | W                | G                     | R                        | B  |
| Signal Name [Specification] | iPod SOUND SIGNAL RH (-) | SHIELD | AV COMM (H) | SHIELD | iPod CONNECTION RECOGNITION | ACCESSORY DETECT | iPod SOUND SIGNAL GND | iPod SOUND SIGNAL LH (+) |    |

|                |                      |
|----------------|----------------------|
| Connector No.  | M112                 |
| Connector Name | iPod SIDE (WITH A/T) |
| Connector Type | IP16FGY              |



|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|

|                             |                          |                       |                           |                           |                          |                             |     |              |        |                  |                    |
|-----------------------------|--------------------------|-----------------------|---------------------------|---------------------------|--------------------------|-----------------------------|-----|--------------|--------|------------------|--------------------|
| Terminal No.                | 1                        | 2                     | 5                         | 6                         | 7                        | 9                           | 10  | 12           | 14     | 15               | 16                 |
| Color of Wire               | B                        | R                     | L                         | P                         | W                        | W                           | BR  | W            | SHIELD | G                | O                  |
| Signal Name [Specification] | iPod SOUND SIGNAL LH (+) | iPod SOUND SIGNAL GND | COMM (iPod->iPod ADAPTER) | COMM (iPod ADAPTER->iPod) | iPod SOUND SIGNAL RH (+) | iPod CONNECTION RECOGNITION | GND | CHARGE POWER | SHIELD | ACCESSORY DETECT | ACCESSORY IDENTITY |

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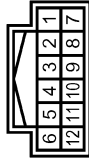
# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |              |  |  |  |  |
|----------------|--------------|--|--|--|--|
| Connector No.  | M114         |  |  |  |  |
| Connector Name | WIRE TO WIRE |  |  |  |  |
| Connector Type | TH12FW-NH    |  |  |  |  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | G             | -                           |
| 3            | O             | -                           |
| 4            | SHIELD        | -                           |
| 5            | W             | -                           |
| 6            | B             | -                           |
| 7            | R             | -                           |
| 8            | BR            | -                           |
| 9            | W             | -                           |
| 10           | W             | -                           |
| 11           | SHIELD        | -                           |

|                |                  |  |  |  |  |
|----------------|------------------|--|--|--|--|
| Connector No.  | M117             |  |  |  |  |
| Connector Name | WIRE TO WIRE     |  |  |  |  |
| Connector Type | TH163MW-CS16-TM4 |  |  |  |  |



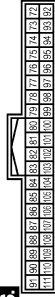
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | SB            | -                           |
| 32           | Y             | -                           |
| 33           | V             | -                           |
| 34           | LG            | -                           |
| 40           | Y             | -                           |
| 41           | G             | -                           |
| 42           | LG            | -                           |
| 43           | B             | -                           |
| 44           | B             | -                           |
| 45           | W             | -                           |
| 46           | SHIELD        | -                           |

|                |              |  |  |  |  |
|----------------|--------------|--|--|--|--|
| Connector No.  | M116         |  |  |  |  |
| Connector Name | WIRE TO WIRE |  |  |  |  |
| Connector Type | TK33MW-NS/D  |  |  |  |  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 30           | LG            | -                           |
| 31           | W             | -                           |
| 41           | O             | -                           |

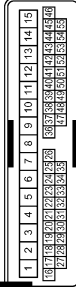
|                |                           |  |  |  |  |
|----------------|---------------------------|--|--|--|--|
| Connector No.  | M122                      |  |  |  |  |
| Connector Name | BCM (BODY CONTROL MODULE) |  |  |  |  |
| Connector Type | TH40FB-NH                 |  |  |  |  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 90           | P             | CAN-L                       |
| 91           | L             | CAN-H                       |

|     |        |   |
|-----|--------|---|
| 47  | P      | - |
| 48  | L      | - |
| 49  | SHIELD | - |
| 50  | V      | - |
| 80  | W      | - |
| 81  | SHIELD | - |
| 82  | P      | - |
| 83  | L      | - |
| 84  | G      | - |
| 85  | SHIELD | - |
| 86  | W      | - |
| 87  | B      | - |
| 88  | R      | - |
| 89  | G      | - |
| 90  | Y      | - |
| 99  | P      | - |
| 100 | L      | - |

|                |              |  |  |  |  |
|----------------|--------------|--|--|--|--|
| Connector No.  | M124         |  |  |  |  |
| Connector Name | WIRE TO WIRE |  |  |  |  |
| Connector Type | TH40MP-CS15  |  |  |  |  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 35           | R             | -                           |
| 37           | BR            | -                           |



# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M184                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH A/T) |
| Connector Type | A08FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | SOUND SIGNAL RH (+)         |
| 2            | B             | SOUND SIGNAL GND            |
| 3            | W             | SOUND SIGNAL LH (-)         |
| 7            | G             | AUX IMAGE SIGNAL            |
| 8            | R             | AUX IMAGE GND               |

|                |              |
|----------------|--------------|
| Connector No.  | M155         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | R             | -                           |
| 4            | W             | -                           |
| 5            | B             | -                           |
| 6            | B             | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

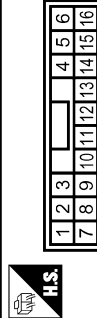
|                |              |
|----------------|--------------|
| Connector No.  | M181         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MMF-NH   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | G             | -                           |
| 3            | O             | -                           |
| 4            | SHIELD        | -                           |
| 5            | GR            | -                           |
| 6            | BR            | -                           |
| 7            | W             | -                           |
| 8            | BR            | -                           |
| 9            | L             | -                           |
| 10           | W             | -                           |
| 11           | SHIELD        | -                           |
| 12           | -             | -                           |

|    |   |
|----|---|
| 12 | P |
|----|---|

|                |                      |
|----------------|----------------------|
| Connector No.  | M182                 |
| Connector Name | iPod SIDE (WITH M/T) |
| Connector Type | IP08GY               |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | BR            | iPod SOUND SIGNAL LH (+)    |
| 2            | W             | iPod SOUND SIGNAL GND       |
| 5            | L             | COMM (iPod->iPod ADAPTER)   |
| 6            | P             | COMM (iPod ADAPTER->iPod)   |
| 7            | GR            | iPod SOUND SIGNAL RH (+)    |
| 9            | W             | iPod CONNECTION RECOGNITION |
| 10           | BR            | GND                         |
| 12           | I             | CHARGE POWER                |
| 14           | SHIELD        | SHIELD                      |
| 15           | G             | ACCESSORY DETECT            |
| 16           | O             | ACCESSORY IDENTIFY          |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M303                              |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY                           |



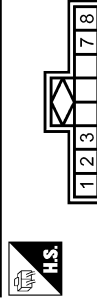
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 14           | W             | -                           |
| 15           | L             | -                           |
| 17           | BR            | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M361         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08MMF-NH   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | BR            | - [Without NAV]             |
| 4            | Y             | - [Without NAV]             |
| 5            | SHIELD        | -                           |
| 6            | SHIELD        | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M362                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH M/T) |
| Connector Type | A08FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | BR            | - [Without NAV]             |
| 2            | B             | -                           |
| 3            | Y             | - [Without NAV]             |
| 7            | G             | -                           |
| 8            | R             | -                           |

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AV

# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |                                |
|----------------|--------------------------------|
| Connector No.  | M370                           |
| Connector Name | AV CONTROL UNIT (WITHOUT NAVI) |
| Connector Type | GT13SH-2/1S-HU                 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 33           | -             | FM SUB                      |
| 34           | -             | AM-FM MAIN                  |
| 35           | -             | ANTENNA AMP. ON SIGNAL      |

|                |                |
|----------------|----------------|
| Connector No.  | M375           |
| Connector Name | WIRE TO WIRE   |
| Connector Type | GT13SC-2/1S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | M376             |
| Connector Name | WIRE TO WIRE     |
| Connector Type | GT13SCH-2/1PF-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |                |
|----------------|----------------|
| Connector No.  | M378           |
| Connector Name | ANTENNA AMP.   |
| Connector Type | GT13SC-1/1S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | ANTENNA AMP. ON SIGNAL      |
| 2            | -             | AM-FM MAIN                  |

|                |                     |
|----------------|---------------------|
| Connector No.  | M379                |
| Connector Name | GLASS ANTENNA (SUB) |
| Connector Type | P01FB-A             |



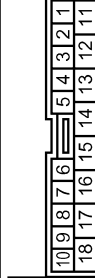
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | M381                 |
| Connector Name | GLASS ANTENNA (MAIN) |
| Connector Type | P01FB-A              |



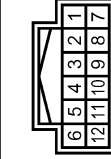
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | R1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10PV-NSS   |



| Terminal No. | Color of Wire | Signal Name [Specification]  |
|--------------|---------------|------------------------------|
| 1            | O             | - [Without rear view camera] |
| 2            | W             | - [Without rear view camera] |
| 3            | SHIELD        | -                            |

|                |              |
|----------------|--------------|
| Connector No.  | R2           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12PV-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification]  |
|--------------|---------------|------------------------------|
| 3            | SHIELD        | -                            |
| 4            | O             | - [Without rear view camera] |
| 5            | W             | - [Without rear view camera] |

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# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

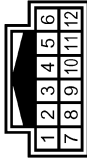
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

|                |            |
|----------------|------------|
| Connector No.  | R17        |
| Connector Name | MICROPHONE |
| Connector Type | TK6QFV     |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | MICROPHONE SIGNAL           |
| 2            | SHIELD        | SHIELD                      |
| 4            | G             | MICROPHONE VCC              |

|                |              |
|----------------|--------------|
| Connector No.  | R11          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | SHIELD        | -                           |
| 4            | R             | -                           |
| 5            | G             | -                           |

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AV

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## SYMPTOM DIAGNOSIS

### MULTI AV SYSTEM SYMPTOMS

#### Symptom Table

INFOID:000000004238637

#### OPERATION

| Symptoms  | Check items   | Possible malfunction location / Action to take  |
|---|---|---|
| Multifunction switch and preset switch operation does not work. | <ul style="list-style-type: none"> <li>All switches cannot be operated.</li> <li>"MULTI AV" is displayed on system selection screen when the CONSULT-III is started.</li> </ul>     | <ul style="list-style-type: none"> <li>Multifunction switch power supply and ground circuit.</li> <li>AV communication circuit between AV control unit and multifunction switch.</li> </ul> Perform CONSULT-III self-diagnosis.<br>Refer to <a href="#">AV-150, "CONSULT - III Function (MULTI AV)"</a> . |
|   | <ul style="list-style-type: none"> <li>All switches cannot be operated.</li> <li>"MULTI AV" is not displayed on system selection screen when the CONSULT-III is started.</li> </ul> | AV control unit power supply and ground circuit malfunction. Refer to <a href="#">AV-165, "AV CONTROL UNIT : Diagnosis Procedure"</a> .   |
|   | Only specified switch cannot be operated.   | Multifunction switch or preset switch malfunction. Perform multifunction switch and preset switch self-diagnosis function. Refer to <a href="#">AV-141, "Diagnosis Description"</a> .   |

#### RELATED TO HANDS-FREE PHONE

##### Basic Inspection

- Check that the cellular phone is corresponding type (Bluetooth® correspond) when the hands-free related malfunction vehicle is in service before performing a diagnosis.
- There is a case that malfunction occurs due to the version change of the phone type, etc. even though it is a corresponding type. Therefore, confirm it by changing the cellular phone to another corresponding type phone, and check that it operates normally. It is necessary to distinguish whether the cause is the vehicle or cellular phone.

##### Simple check for Bluetooth® communication

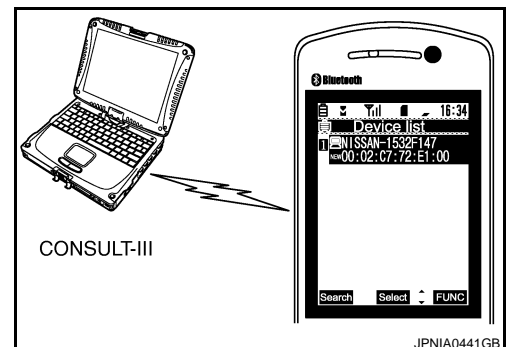
- If cellular phone and AV control unit cannot be connected with Bluetooth® communication, following procedure allows the technician to judge which device has malfunction.

- Turn on a cellular phone, not connecting Bluetooth® communication.
- Start CONSULT-III, then start Windows®.
- Set CONSULT-III near a cellular phone.
- When operated Bluetooth® registration by cellular phone, check if CONSULT-III\* would be displayed on the device name.  
(If other Bluetooth® device is located near cellular phone, a name of the device would be displayed also.)

**NOTE:**

\*:Displayed device name is "NISSAN-\*\*\*\*\*".

- If no device name is displayed, cellular phone is malfunctioning. Repair the cellular phone first, then perform diagnosis.
- If CONSULT-III is displayed on device name, cellular phone is normal. Perform diagnosis as per the following table.



##### On Board Self-diagnosis of Hands-free Phone System



Always perform the on board self-diagnosis at first after completing the basic inspection when the malfunction is detected on the hands-free phone system. Narrow down possible causes using the Diagnosis Chart if there is no malfunction in the on board self-diagnosis.

##### Trouble Diagnosis Chart by Symptom

# MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITHOUT NAVIGATION]

< SYMPTOM DIAGNOSIS >

| Symptoms  | Check items  | Probable malfunction location  |
|---|--|--|
| Does not recognize cellular phone connection. (No connection is displayed on the display at the guide.) | Repeat the registration of cellular phone.   | TEL adapter unit malfunction.<br>Refer to <a href="#">AV-345, "Exploded View"</a> .  |
| Hands-free phone cannot be established.   | Both the reception and the speech cannot be performed  | <ul style="list-style-type: none"> <li>Perform CONSULT-III self-diagnosis. Refer to <a href="#">AV-150, "CONSULT - III Function (MULTI AV)"</a>.</li> <li>No malfunction. TEL adapter unit malfunction. Refer to <a href="#">AV-345, "Exploded View"</a>.</li> <li>Malfunction is detected. Refer to <a href="#">AV-150, "CONSULT - III Function (MULTI AV)"</a>.</li> </ul> |
| The party's voice cannot be heard by hands-free phone.  | The operation of the "  " switch can be performed.    | TEL voice signal circuit malfunction between TEL adapter unit and AV control unit.   |
|   | The operation of the "  " switch cannot be performed. | Control signal circuit.<br>Refer to <a href="#">AV-182, "Diagnosis Procedure"</a> .  |
| Originating sound is not heard by the other party with hands-free phone communication.                  | Sound operation function is normal.  | TEL adapter unit.<br>Refer to <a href="#">AV-345, "Exploded View"</a> .  |
|   | Sound operation function does not work.  | Microphone signal circuit.<br>Refer to <a href="#">AV-180, "Diagnosis Procedure"</a> .   |

## RELATED TO RGB IMAGE

Trouble diagnosis chart by symptom

| Symptoms                                | Check items  | Possible malfunction location / Action to take  |
|---|--|---|
| RGB image is not shown.                 | There is malfunction in the CONSULT-III self-diagnosis result. | Perform CONSULT-III self-diagnosis.<br>Refer to <a href="#">AV-150, "CONSULT - III Function (MULTI AV)"</a> .   |
|   | There is no malfunction in CONSULT-III self-diagnosis results. | <ul style="list-style-type: none"> <li>Display unit power supply and ground circuit. Refer to <a href="#">AV-165, "DISPLAY UNIT : Diagnosis Procedure"</a>.</li> <li>Vertical synchronizing (VP) signal circuit. Refer to <a href="#">AV-176, "Diagnosis Procedure"</a>.</li> </ul> |
| Color of RGB image is not proper.       | Light blue (Cyan) tint.  | RGB signal (R: red) circuit.<br>Refer to <a href="#">AV-170, "Diagnosis Procedure"</a> .  |
|   | Purple (Magenta) tint.   | RGB signal (G: green) circuit.<br>Refer to <a href="#">AV-171, "Diagnosis Procedure"</a> .  |
|   | Screen looks yellowish.  | RGB signal (B: blue) circuit.<br>Refer to <a href="#">AV-172, "Diagnosis Procedure"</a> .   |
| RGB screen is rolling.                  | —  | RGB synchronizing signal circuit.<br>Refer to <a href="#">AV-173, "Diagnosis Procedure"</a> .   |
| Fuel economy display is malfunctioning. | There is malfunction in the CONSULT-III self-diagnosis result. | Perform CONSULT-III self-diagnosis.<br>Refer to <a href="#">AV-150, "CONSULT - III Function (MULTI AV)"</a> .   |
|   | There is no malfunction in CONSULT-III self-diagnosis results. | Ignition signal circuit malfunction.<br>Refer to <a href="#">AV-165, "AV CONTROL UNIT : Diagnosis Procedure"</a> .  |

## RELATED TO AUDIO

Trouble diagnosis chart by symptom

| Symptoms                  | Check items | Possible malfunction location / Action to take |
|---------------------------|-------------|--|
| The CD cannot be removed. | —           | CD eject signal circuit.                       |

## MULTI AV SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

| Symptoms   | Check items  | Possible malfunction location / Action to take   |
|--|--|--|
| Audio sound is not heard.                          | No sound from all speakers.  | <ul style="list-style-type: none"> <li>BOSE amp. power supply and ground circuit. Refer to <a href="#">AV-167, "BOSE AMP. : Diagnosis Procedure"</a>.</li> <li>Amp. ON signal circuit</li> </ul>   |
|  | Sound is not heard from rear woofer.   | <ul style="list-style-type: none"> <li>Sound signal woofer circuit between BOSE amp. and rear woofer.</li> <li>Woofer amp. ON signal circuit between BOSE amp. and rear woofer.</li> </ul>   |
|  | Sound is not heard from center speaker.  | Sound signal center speaker circuit.   |
|  | Sound is heard only from specific places (RH front, RH rear, LH front and LH rear).      | Sound signal circuit of malfunctioning system.   |
| It does not change to "Driver's Audio Stage" mode. | —  | Mode change signal circuit.<br>Refer to <a href="#">AV-183, "Diagnosis Procedure"</a> .  |
| Satellite radio is not received.                   | "ANTENNA" is not displayed even when the channel is turned to 0 in Satellite radio mode. | Perform the following inspection procedure. <ol style="list-style-type: none"> <li>Check satellite radio antenna mounting nut for looseness.</li> </ol> <p><b>NOTE:</b><br/>Tightening torque: 6.5 N·m (0.66 kg-m, 58 in-lb.)</p> <ol style="list-style-type: none"> <li>Visually check for satellite radio antenna feeder.</li> <li>Replace the satellite radio antenna. Refer to <a href="#">AV-336, "Exploded View"</a>.</li> <li>Replace the satellite radio tuner. Refer to <a href="#">AV-335, "Exploded View"</a>.</li> </ol> |
|  | "ANTENNA" is displayed when the channel is turned to 0 in Satellite radio mode.          | Perform the following inspection procedure. <ol style="list-style-type: none"> <li>Check the connection between Satellite radio tuner and antenna feeder.</li> <li>Check the connection between Satellite radio antenna and antenna feeder.</li> <li>Check Antenna feeder for open circuit.</li> <li>Replace the satellite radio antenna. Refer to <a href="#">AV-336, "Exploded View"</a>.</li> <li>Replace the satellite radio tuner. Refer to <a href="#">AV-335, "Exploded View"</a>.</li> </ol>                                 |
| The sound of Satellite radio is not heard.         | Other audio sounds are normal.   | Satellite radio sound signal circuit between AV control unit and satellite radio tuner.  |
| It does not change to Satellite radio mode.        | There is malfunction in the CONSULT-III self-diagnosis result.                           | Perform CONSULT-III self-diagnosis. Refer to <a href="#">AV-150, "CONSULT - III Function (MULTI AV)"</a> .   |
| AM/FM radio is not received.                       | Other audio sounds are normal.   | <ul style="list-style-type: none"> <li>Antenna amp. ON signal circuit.</li> <li>Antenna feeder.</li> </ul>   |

### RELATED TO iPod®

Trouble diagnosis chart by symptom

Connect another iPod® and check if the symptom is reproduced or not. If the symptom is reproduced, diagnose the vehicle. If no malfunction is detected, replace the iPod harness.

**NOTE:**

It is unable to check that between iPod® and iPod harness.

| Symptoms   | Check items   | Possible malfunction location / Action to take   |
|--|---|--|
| The sound of iPod® is not heard.                                 | Other audio sounds are normal.                          | <ul style="list-style-type: none"> <li>iPod sound signal circuit between AV control unit and iPod adapter.</li> <li>iPod sound signal circuit between iPod® and iPod adapter.</li> </ul> |
| It does not change to iPod mode.                                 | There is malfunction in the CONSULT-III self-diagnosis. | Perform CONSULT-III self-diagnosis. Refer to <a href="#">AV-150, "CONSULT - III Function (MULTI AV)"</a> .   |
| "iPod is not connected" is displayed when it comes to iPod mode. | Connected to iPod®.                                     | iPod connection recognition signal circuit between iPod® and iPod adapter.   |

# MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITHOUT NAVIGATION]

< SYMPTOM DIAGNOSIS >

| Symptoms   | Check items | Possible malfunction location / Action to take              |
|--|-------------|---|
| iPod® cannot charge the battery.                       | —           | iPod battery charge circuit between iPod® and iPod adapter. |
| The title of music file in the iPod® is not indicated. | —           | Communication circuit between iPod® and iPod adapter.       |
| Accessing the iPod® is unavailable from the vehicle.   |             |   |

## RELATED TO STEERING SWITCH

Trouble diagnosis chart by symptom

| Symptoms  | Probable malfunction location   |
|---|---|
| None of the steering switch operations work.  | Steering switch signal GND circuit.<br>Refer to <a href="#">AV-191, "Diagnosis Procedure"</a> . |
| Only specified switch cannot be operated.   | Steering switch. Refer to <a href="#">AV-339, "Exploded View"</a> .                             |
| "SOURCE", "MENU UP", "MENU DOWN", "⏪ ⏩" switches of steering switch are not operated. | Steering switch signal A circuit.<br>Refer to <a href="#">AV-187, "Diagnosis Procedure"</a> .   |
| "VOL UP", "VOL DOWN", "⏮ ⏭" switches of steering switch are not operated.             | Steering switch signal B circuit.<br>Refer to <a href="#">AV-189, "Diagnosis Procedure"</a> .   |

## AUX

### NOTE:

Check that there is no malfunction of AUX equipment main body before performing a diagnosis.

Trouble diagnosis chart by symptom

| Symptoms   | Check items   | Probable malfunction location   |
|--|---|---|
| No voice sound is heard when AUX mode is selected. | Voice sound is heard when other modes are selected. | AUX sound signal circuits malfunction between auxiliary input jacks and AV control unit.  |
| Image is not displayed when AUX mode is selected.  | —   | <ul style="list-style-type: none"> <li>AUX image signal circuit malfunction between auxiliary input jacks and AV control unit.<br/>Refer to <a href="#">AV-177, "Diagnosis Procedure"</a>.</li> <li>Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and display unit.<br/>Refer to <a href="#">AV-173, "Diagnosis Procedure"</a>.</li> <li>RGB area (YS) signal circuit malfunction between AV control unit and display unit.<br/>Refer to <a href="#">AV-174, "Diagnosis Procedure"</a>.</li> </ul> |
| It does not change from AUX mode to other modes.   | —   | Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit.<br>Refer to <a href="#">AV-176, "Diagnosis Procedure"</a> .  |

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# NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## NORMAL OPERATING CONDITION

### Description

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### BASIC OPERATIONS

| Symptom  | Possible cause   | Possible solution  |
|--|--|--|
| No image is displayed.   | The brightness is at the lowest setting.                                 | Adjust the brightness of the display.                                      |
|  | The system is in the video mode.   | Press <DISC> to change the mode.   |
|  | The display is turned off.   | Press <Day/Night> to turn on the display.                                  |
| The screen is too dim. The movement is slow.                   | The temperature in the interior of the vehicle is low.                   | Wait until the interior of the vehicle has warmed up.                      |
| Some pixels in the display are darker or brighter than others. | This condition is an inherent characteristic of liquid crystal displays. | This is not a malfunction.   |
| Some menu items cannot be selected.                            | Some menu items become unavailable while the vehicle is driven.          | Park the vehicle in a safe location, and then operate the multi AV system. |

### RELATED TO VOICE RECOGNITION

#### Related to Telephone

The system should respond correctly to all voice commands without difficulty. If problems are encountered, try the following solutions.

Where the solutions are listed by number, try each solution in turn, starting with number 1, until the problem is resolved.

| Symptom  | Solution  |
|--|---|
| System fails to interpret the command correctly.   | 1. Ensure that the command is valid.  |
|  | 2. Ensure that the command is spoken after the tone.  |
|  | 3. Speak clearly without pausing between words and at level appropriate to the ambient noise level in the vehicle.  |
|  | 4. Ensure that the ambient noise level is not excessive (for example, windows open or defroster on).<br><b>NOTE:</b><br>If it is too noisy to use the phone, it is likely that the voice commands will be recognized.                                     |
|  | 5. If more than one command was said at a time, try saying the commands separately.   |
|  | 6. If the system consistently fails to recognize commands, the voice training procedure should be carried out to improve the recognition response for the speaker. See "Speaker adaptation (SA) mode" earlier in this section. Refer to "OWNER'S MANUAL". |
| The system consistently selects the wrong voicetag | 1. Ensure that the phone book entry name requested matches what was originally stored. This can be confirmed by using the "List Names" command.   |
|  | 2. Replace one of the names being confused with a new name.   |

### RELATED TO AUDIO

- The majority of the audio malfunctions are the result of outside causes (bad CD/cassette, electromagnetic interference, etc.). Check the symptoms below to diagnose the malfunction.
- The vehicle itself can be a source of noise if noise prevention parts or electrical equipment is malfunctioning. Check if noise is caused and/or changed by engine speed, ignition switch turned to each position, and operation of each piece of electrical equipment, and then determine the cause.

#### NOTE:

- CD-R is not guaranteed to play because they can contain compressed audio (MP3, WMA) or could be incorrectly mastered by the customer on a computer.
- Check if the CDs carry the Compact Disc Logo. If not, the disc is not mastered to the "red book" Compact Disc Standard and may not play.



# NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

| Symptom  | Cause and Counter measure   |
|--|---|
| Cannot play  | Check if the CD was inserted correctly.   |
|  | Check if the CD is scratched or dirty.  |
|  | Check if there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.  |
|  | If there is a temperature increase error, the player will play correctly after it returns to the normal temperature.  |
|  | If there is a mixture of music CD files (CD-DA data) and MP3/WMA files on a CD, only the music CD files (CD-DA data) will be played.  |
|  | Files with extensions other than “.MP3”, “.WMA”, “.mp3”, or “.wma” cannot be played. In addition, the character codes and number of characters for folder names and file names should be in compliance with the specifications. |
|  | Check if the disc or the file is generated in an irregular format, This may occur depending on the variation or the setting of MP3/WMA writing applications or other text editing applications.                                 |
|  | Check if the finalization process, such as session close and disc close, is done for the disc.  |
| Poor sound quality   | Check if the CD is scratched or dirty.  |
| It takes a relatively long time before the music starts playing. | If there are many folder or file levels on the MP3/WMA CD, or if it is a multisession disc, some time may be required before the music starts playing.  |
| Music cuts off or skips  | The writing software and hardware combination might not match, or the writing speed, writing depth, writing width might not match the specifications. Try using the slowest writing speed.                                      |
| Skipping with high bit rate files                                | Skipping may occur with large quantities if data such as for high bit rate data.  |
| Move immediately to the next song when playing                   | When a non-MP3/WMA file has been given an extension of “.MP3”, “.WMA”, “.mp3”, or “.wma”, or when play is prohibited by copyright protection, the player will skip to the next song.  |
| The songs do not play back in the desired order.                 | The playback order is the order in which the files were written by the software, so the files might not play in the desired order.  |

Noise resulting from variations in field strength, such as fading noise and multi-path noise, or external noise from trains and other sources, is not a malfunction.

**NOTE:**

- Fading noise: This noise occurs because of variations in the field strength in a narrow range due to mountains or buildings blocking the signal.
- Multi-path noise: This noise results from a time difference between the broadcast waves directly from the station arriving at the antenna and the waves reflected by mountains or buildings.

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AV

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000004238639

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

**WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

**WARNING:**

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Trouble Diagnosis

INFOID:000000004238640

AV COMMUNICATION SYSTEM

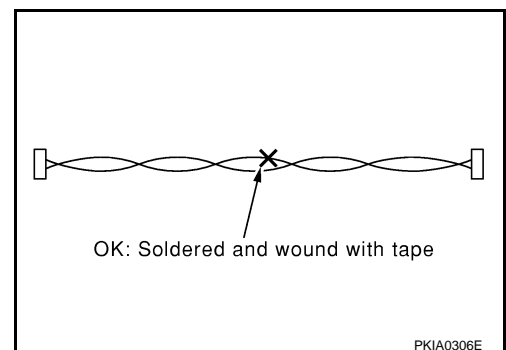
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

INFOID:000000004238641

AV COMMUNICATION SYSTEM

- Solder the repaired parts, and wrap with tape. [Frays of twisted line must be within 110 mm (4.33 in).]



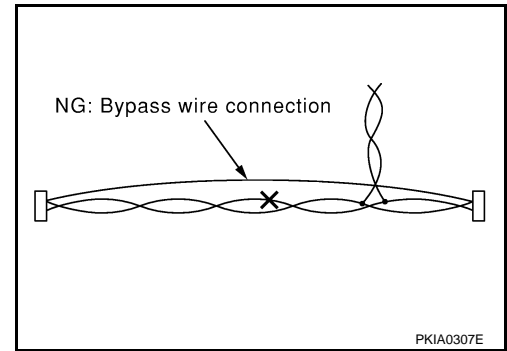
PKIA0306E

## PRECAUTIONS

< PRECAUTION >

[BOSE AUDIO WITHOUT NAVIGATION]

- Do not perform bypass wire connections for the repair parts. (The spliced wire will become separated and the characteristics of twisted line will be lost.)



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# PREPARATION

< PREPARATION >

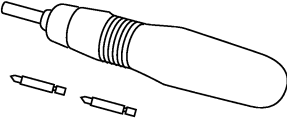
[BOSE AUDIO WITHOUT NAVIGATION]

## PREPARATION

### PREPARATION

#### Commercial Service Tools

INFOID:000000004238642

| Tool name  | Description   |
|--|---|
| <p>Power tool</p>  <p>PBIC0191E</p> | <p>Loosening bolts and nuts</p> |

# AV CONTROL UNIT

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## REMOVAL AND INSTALLATION

### AV CONTROL UNIT

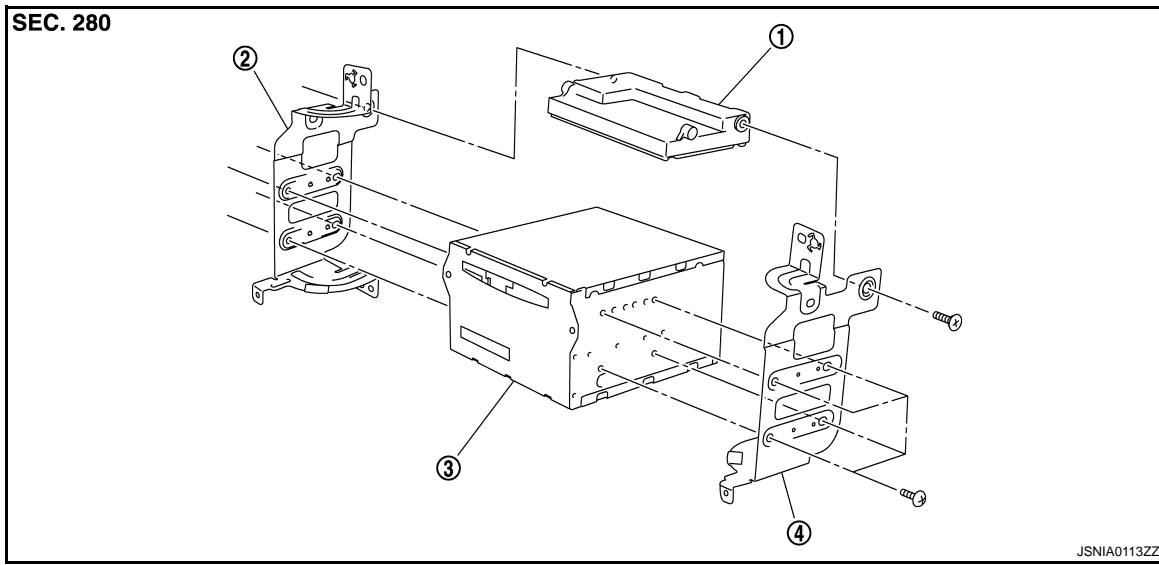
#### Exploded View

INFOID:000000004238643

#### REMOVAL

Refer to [IP-11, "Exploded View"](#).

#### DISASSEMBLY



1. Unified meter and A/C amp.
2. Bracket LH
3. AV control unit
4. Bracket RH

#### Removal and Installation

INFOID:000000004238644

#### REMOVAL

1. Remove display unit.
2. Remove AV control unit with a unified meter and A/C amp. as a single unit from the body.
3. Remove bracket screws, and then remove AV control unit.

#### INSTALLATION

Installation is the reverse order of removal.

#### **CAUTION:**

**Since AV control unit connector and unified meter and A/C amp. connector have the same form, be careful not to insert them wrongly.**

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AV

## DISPLAY UNIT

### Exploded View

INFOID:000000004238645

Refer to [IP-11, "Exploded View"](#).

### Removal and Installation

INFOID:000000004238646

#### REMOVAL

1. Remove cluster lid D. Refer to [IP-11, "Exploded View"](#).
2. Remove display unit with bracket as a single unit.

#### INSTALLATION

Installation is the reverse order of removal.

# FRONT DOOR SQUAWKER

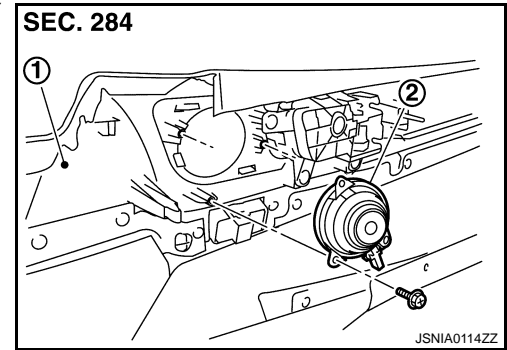
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## FRONT DOOR SQUAWKER

### Exploded View

INFOID:000000004238647



1. Door finisher
2. Front door squawker

### Removal and Installation

INFOID:000000004238648

#### REMOVAL

1. Remove front door finisher. Refer to [INT-11, "Exploded View"](#).
2. Remove front door squawker from door finisher.

#### INSTALLATION

Installation is the reverse order of removal.

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AV

## FRONT DOOR WOOFER

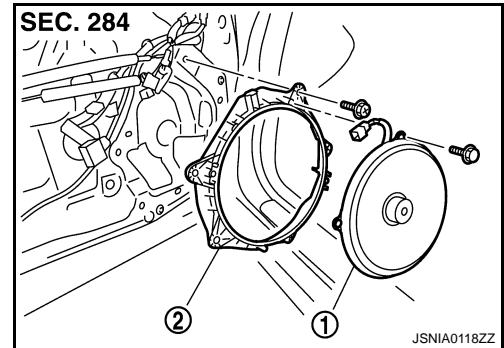
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

### FRONT DOOR WOOFER

#### Exploded View

INFOID:000000004238649



1. Front door woofer
2. Woofer bracket

#### Removal and Installation

INFOID:000000004238650

##### REMOVAL

1. Remove front door finisher. Refer to [INT-11, "Exploded View"](#).
2. Remove front door woofer from woofer bracket.

##### INSTALLATION

Installation is the reverse order of removal.



# REAR DOOR SPEAKER

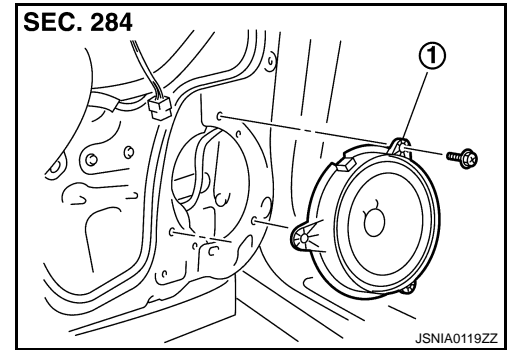
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## REAR DOOR SPEAKER

Exploded View

INFOID:000000004238651



1. Rear door speaker

### Removal and Installation

INFOID:000000004238652

#### REMOVAL

1. Remove rear door finisher. Refer to [INT-11. "Exploded View"](#).
2. Remove rear door speaker from rear door.

#### INSTALLATION

Installation is the reverse order of removal.

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# TWEETER

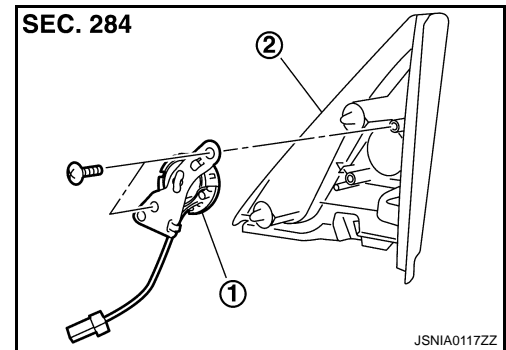
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## TWEETER

### Exploded View

INFOID:000000004238653



1. Tweeter
2. Corner cover inner

### Removal and Installation

INFOID:000000004238654

#### REMOVAL

1. Remove front door finisher, and then remove corner cover inner. Refer to [INT-11, "Exploded View"](#).
2. Remove tweeter from corner cover inner.

#### INSTALLATION

Installation is the reverse order of removal.

# CENTER SPEAKER

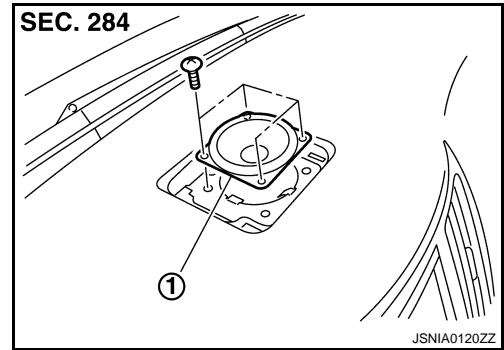
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## CENTER SPEAKER

### Exploded View

INFOID:000000004238655



1. Center speaker

### Removal and Installation

INFOID:000000004238656

#### REMOVAL

1. Remove upper grille, and then remove center speaker. Refer to [IP-11, "Exploded View"](#).

#### INSTALLATION

Installation is the reverse order of removal.

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## REAR WOOFER

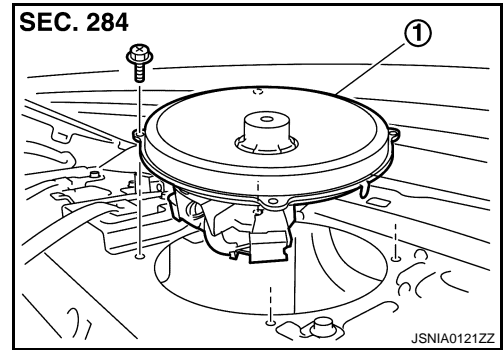
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

### REAR WOOFER

Exploded View

INFOID:000000004238657



1. Woofer

### Removal and Installation

INFOID:000000004238658

#### REMOVAL

1. Remove rear parcel shelf finisher. Refer to [INT-18. "Exploded View"](#).
2. Remove woofer from rear parcel shelf.

#### INSTALLATION

Installation is the reverse order of removal.

# BOSE AMP.

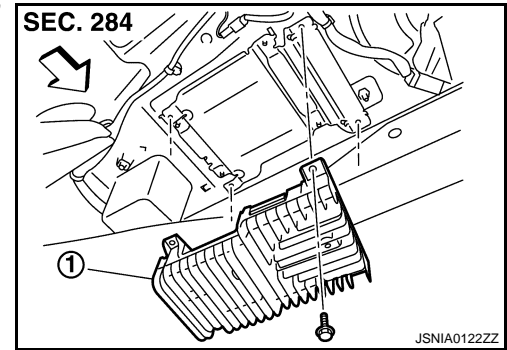
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AMP.

### Exploded View

INFOID:000000004238659



1. BOSE amp.

←: Vehicle front

### Removal and Installation

INFOID:000000004238660

#### REMOVAL

1. Remove trunk front finisher. Refer to [INT-28. "Exploded View"](#).
2. Remove BOSE amp. from rear parcel shelf.

#### INSTALLATION

Installation is the reverse order of removal.

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## ANTENNA AMP.

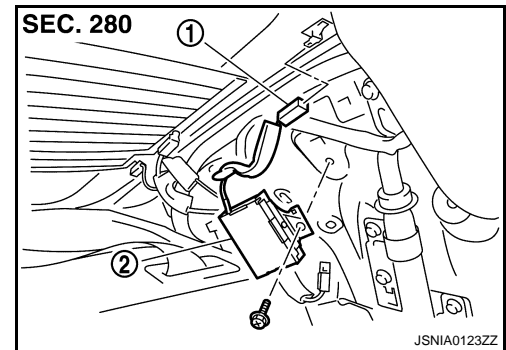
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

### ANTENNA AMP.

#### Exploded View

INFOID:000000004238661



1. AM-FM main connector
2. Antenna amp.

#### Removal and Installation

INFOID:000000004238662

##### REMOVAL

1. Remove rear pillar finisher LH. Refer to [INT-14. "Exploded View"](#).
2. Remove antenna amp. from rear pillar LH.

##### INSTALLATION

Installation is the reverse order of removal.

# SATELLITE RADIO TUNER

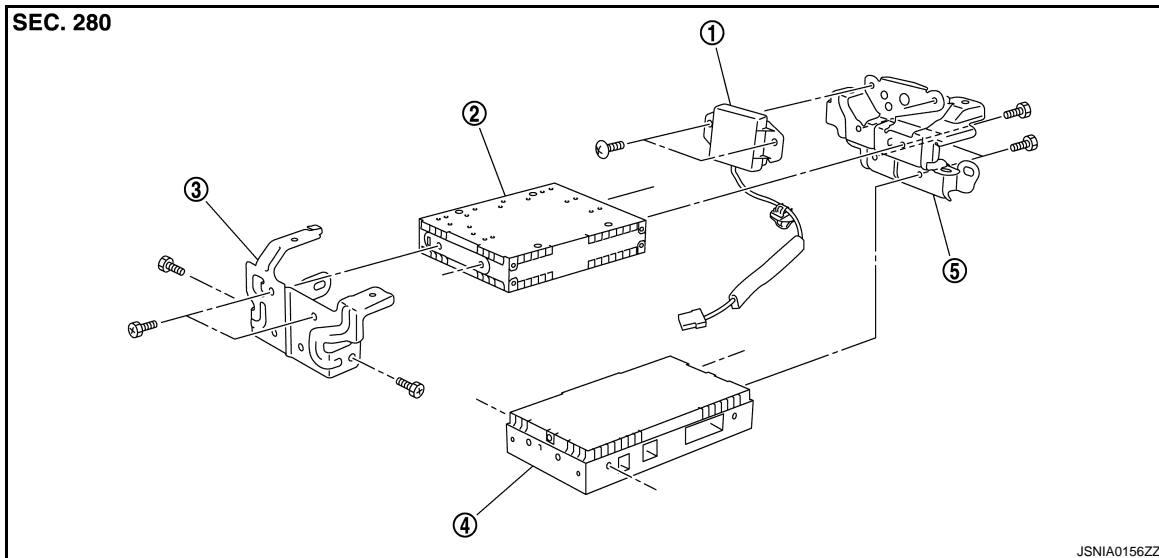
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## SATELLITE RADIO TUNER

### Exploded View

INFOID:000000004238663



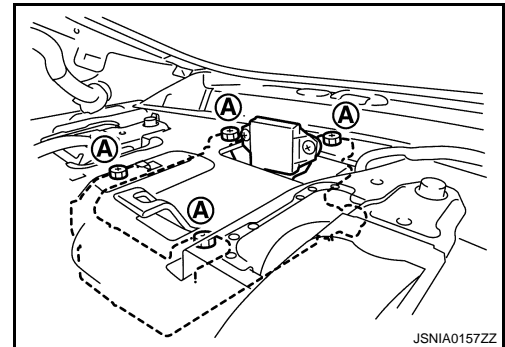
- |                     |                          |                    |
|---------------------|--------------------------|--------------------|
| 1. TEL antenna      | 2. Satellite radio tuner | 3. Bracket (front) |
| 4. TEL adapter unit | 5. Bracket (rear)        |                    |

### Removal and Installation

INFOID:000000004238664

#### REMOVAL

1. Remove trunk front finisher. Refer to [INT-28, "Exploded View"](#).
2. Remove rear parcel shelf finisher. Refer to [INT-18, "Exploded View"](#).
3. Remove screws (A) from inside the cabin, and remove TEL adapter unit and TEL antenna as a single unit from trunk room side.
4. Remove bracket screws and remove TEL adapter unit and satellite radio tuner.



#### INSTALLATION

Installation is the reverse order of removal.

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# SATELLITE RADIO ANTENNA

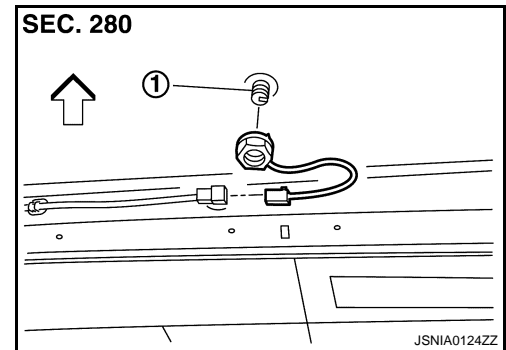
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## SATELLITE RADIO ANTENNA

### Exploded View

INFOID:000000004468215



1. Satellite radio antenna

↩: Vehicle front

### Removal and Installation

INFOID:000000004468216

#### REMOVAL

1. Remove head lining assembly (rear) to secure work space between vehicle and headlining. Refer to [INT-22, "NORMAL ROOF : Exploded View"](#) (normal roof models) or [INT-25, "SUNROOF : Exploded View"](#) (sunroof models).
2. Remove nut, and then remove satellite radio antenna from roof panel.

#### INSTALLATION

Installation is the reverse order of removal.

**Satellite radio antenna mounting nut**  : 6.5 N·m (0.66 kg·m, 58 in·lb)

#### **CAUTION:**

Be careful about tightening torque. Antenna sensitivity becomes poor, and when it is excessive, roof panel may be deformed, when satellite radio antenna mounting nut tightening torque is loose.



# MULTIFUNCTION SWITCH

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## MULTIFUNCTION SWITCH

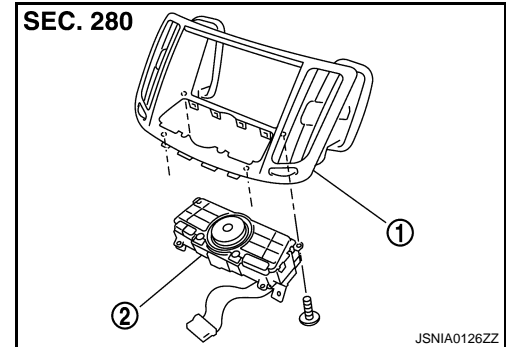
### Exploded View

INFOID:000000004238667

#### REMOVAL

Refer to [IP-11, "Exploded View"](#).

#### DISASSEMBLY



1. Center ventilator grille
2. Multifunction switch

### Removal and Installation

INFOID:000000004238668

#### REMOVAL

1. Remove cluster lid D. Refer to [IP-11, "Exploded View"](#).
2. Remove multi function switch with center ventilator grille as a single unit.
3. Remove multi function switch from center ventilator.

#### INSTALLATION

Installation is the reverse order of removal.

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AV

# PRESET SWITCH

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## PRESET SWITCH

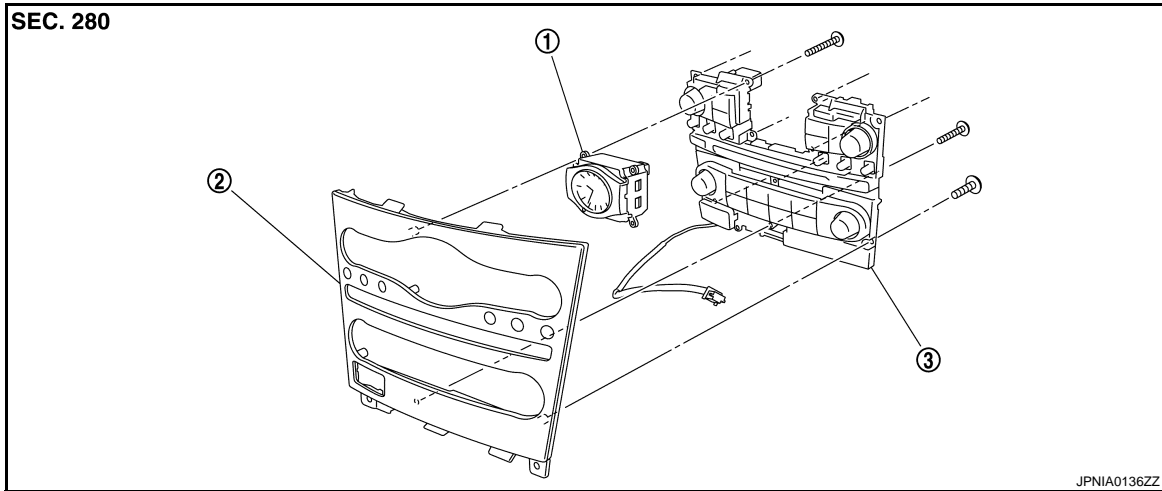
### Exploded View

INFOID:000000004238669

#### REMOVAL

Refer to [IP-11, "Exploded View"](#).

#### DISASSEMBLY



1. Clock

2. Cluster lid C

3. Preset switch

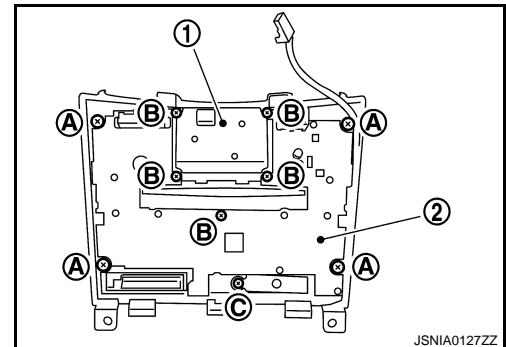
### Removal and Installation

INFOID:000000004468209

#### REMOVAL

1. Remove cluster lid C. Refer to [IP-11, "Exploded View"](#).
2. Remove preset switch screws (A), (B), and (C), and then remove preset switch (2) from cluster lid C.

1. Clock



#### INSTALLATION

Installation is the reverse order of removal.

#### NOTE:

When installing preset switch, do not allow the print wire that connects preset switch and multifunction switch to get caught in between AV control unit and preset switch.

# STEERING SWITCH

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## STEERING SWITCH

### Exploded View

INFOID:000000004238671

Refer to [ST-17, "Exploded View"](#).

### Removal and Installation

INFOID:000000004238672

#### REMOVAL

Refer to [ST-17, "Removal and Installation"](#).

#### INSTALLATION

Installation is the reverse order of removal.

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# IPOD ADAPTER

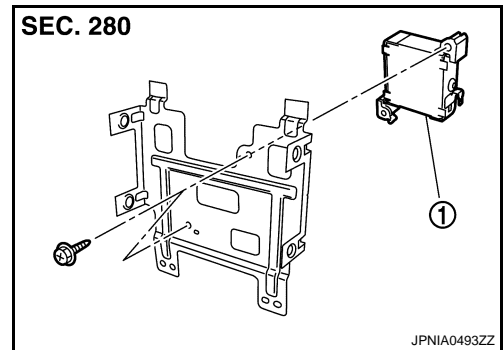
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## IPOD ADAPTER

### Exploded View

INFOID:000000004238673



1. iPod adapter

### Removal and Installation

INFOID:000000004238674

#### REMOVAL

1. Remove display assy. Refer to [AV-326, "Removal and Installation"](#).
2. Remove display from display bracket.
3. Remove iPod adapter from display bracket.

#### INSTALLATION

Install in the reverse order of removal.

# IPOD CONNECTOR

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## IPOD CONNECTOR

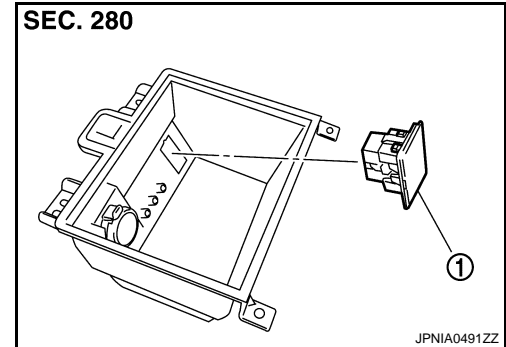
### Exploded View

INFOID:000000004238675

#### REMOVAL

Refer to [IP-23, "Exploded View"](#).

#### DISASSEMBLY



1. iPod connector

### Removal and Installation

INFOID:000000004238676

#### REMOVAL

1. Remove center console. (M/T models) Refer to [IP-23, "Exploded View"](#).  
Remove center console. (A/T models) Refer to [IP-23, "Exploded View"](#).
2. Press the pawl from the back of center console to remove iPod connector.

#### INSTALLATION

Install in the reverse order of removal.

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AV

# AUXILIARY INPUT JACKS

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## AUXILIARY INPUT JACKS

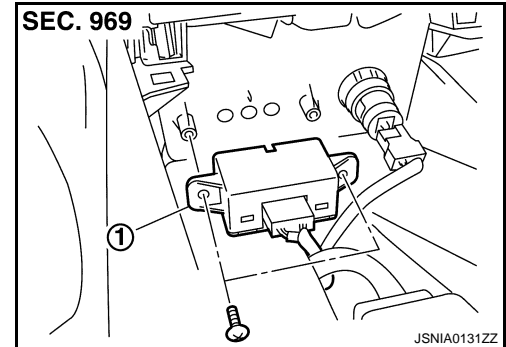
### Exploded View

INFOID:000000004238677

#### REMOVAL

Refer to [IP-23, "Exploded View"](#).

#### DISASSEMBLY



1. Auxiliary input jacks

### Removal and Installation

INFOID:000000004238678

#### REMOVAL

1. Remove center console. (M/T models) Refer to [IP-23, "Exploded View"](#).  
Remove center console cup. (A/T models) Refer to [IP-23, "Exploded View"](#).
2. Remove auxiliary input jacks from center console. (M/T models)  
Remove auxiliary input jacks from center console cup. (A/T models)

#### INSTALLATION

Installation is the reverse order of removal.

# MICROPHONE

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## MICROPHONE

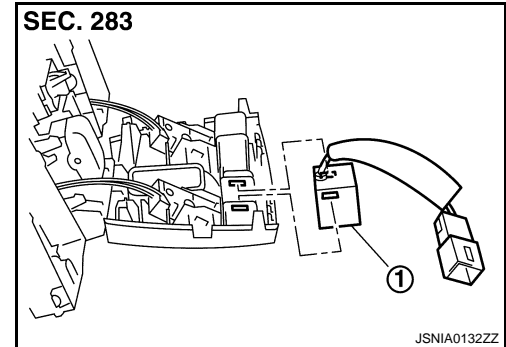
### Exploded View

INFOID:000000004238679

#### REMOVAL

Refer to [INL-100, "Exploded View"](#).

#### DISASSEMBLY



1. Microphone

### Removal and Installation

INFOID:000000004238680

#### REMOVAL

1. Remove map lamp. Refer to [INL-100, "Exploded View"](#).
2. Remove microphone from map lamp.

#### INSTALLATION

Installation is the reverse order of removal.

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# TEL ANTENNA

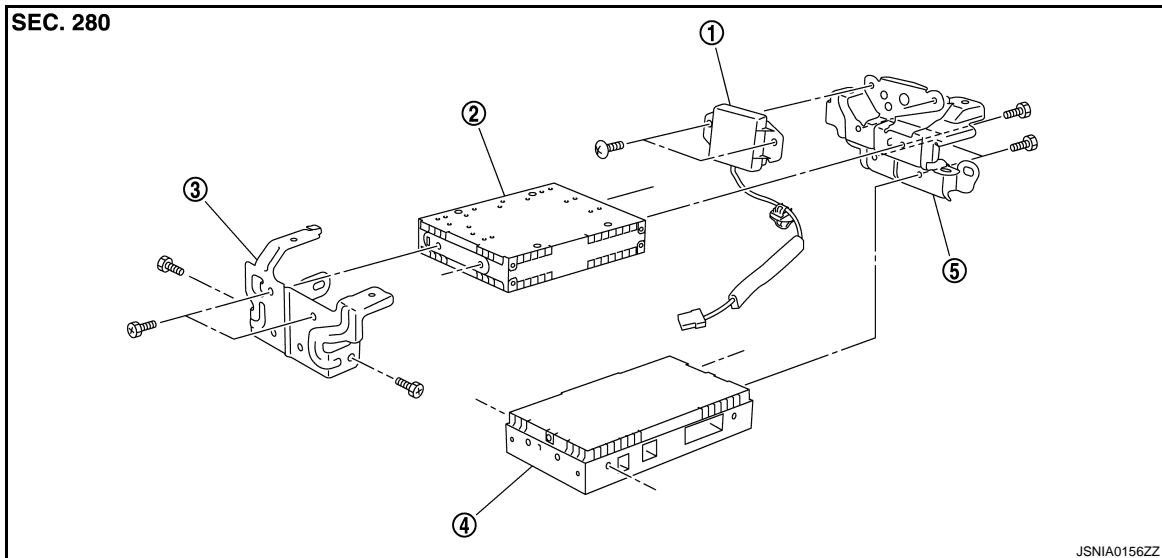
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## TEL ANTENNA

### Exploded View

INFOID:000000004238681



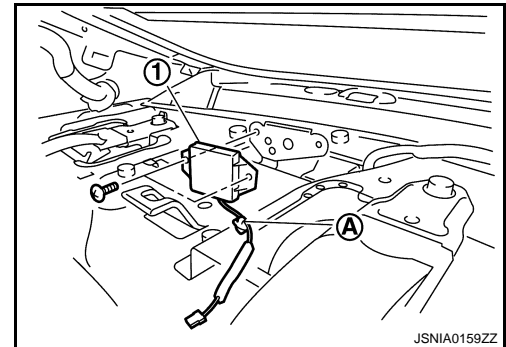
- |                     |                          |                    |
|---------------------|--------------------------|--------------------|
| 1. TEL antenna      | 2. Satellite radio tuner | 3. Bracket (front) |
| 4. TEL adapter unit | 5. Bracket (rear)        |                    |

### Removal and Installation

INFOID:0000000004238682

#### REMOVAL

1. Remove trunk front finisher. Refer to [INT-28, "Exploded View"](#).
2. Remove rear parcel shelf finisher. Refer to [INT-18, "Exploded View"](#).
3. Remove screws and clip (A) from inside the cabin and remove TEL antenna (1) connector from trunk room side.



#### INSTALLATION

Installation is the reverse order of removal.



# TEL ADAPTER UNIT

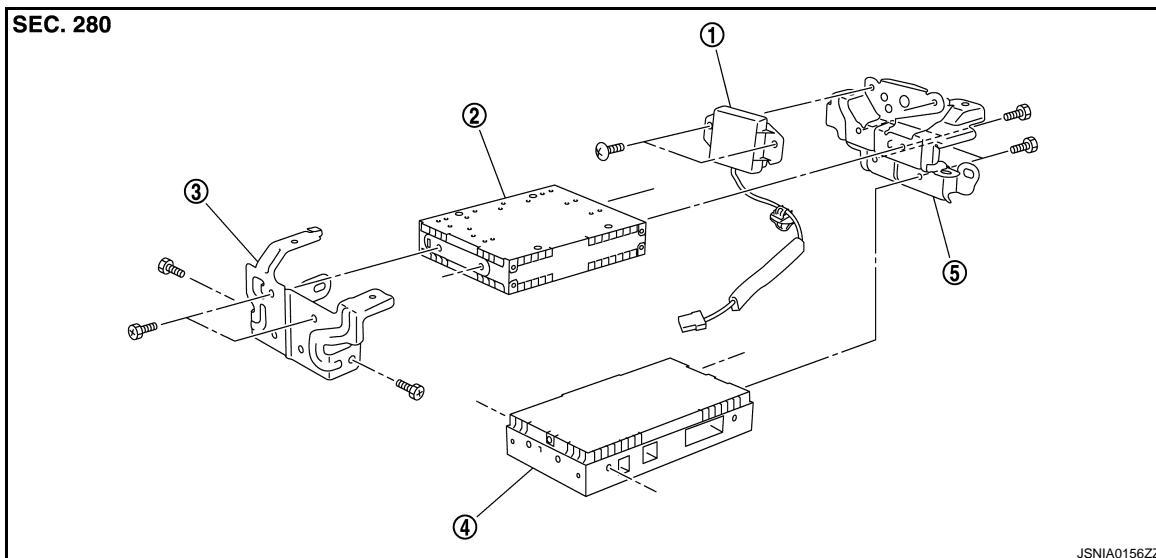
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## TEL ADAPTER UNIT

### Exploded View

INFOID:000000004238683



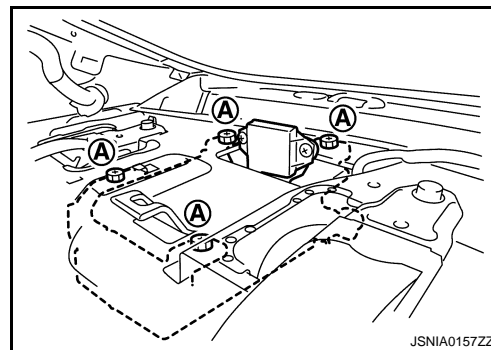
- |                     |                          |                    |
|---------------------|--------------------------|--------------------|
| 1. TEL antenna      | 2. Satellite radio tuner | 3. Bracket (front) |
| 4. TEL adapter unit | 5. Bracket (rear)        |                    |

### Removal and Installation

INFOID:000000004238684

#### REMOVAL

1. Remove trunk front finisher. Refer to [INT-28, "Exploded View"](#).
2. Remove rear parcel shelf finisher. Refer to [INT-18, "Exploded View"](#).
3. Remove screws (A) from inside the cabin, and remove TEL adapter unit and TEL antenna as a single unit from trunk room side.
4. Remove bracket screws and remove TEL adapter unit and satellite radio tuner.



#### INSTALLATION

Installation is the reverse order of removal.

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# ANTENNA FEEDER (RADIO)

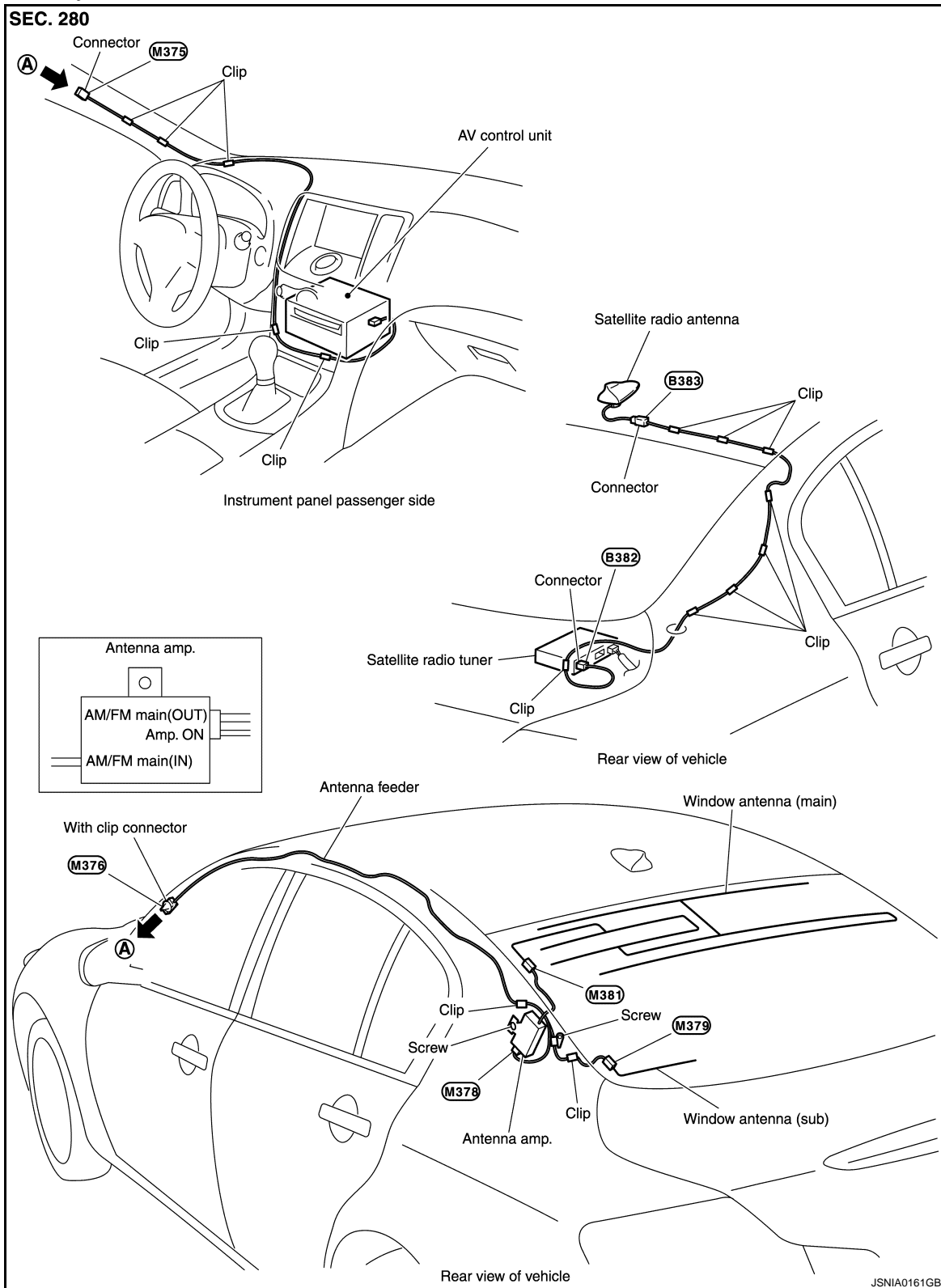
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## ANTENNA FEEDER (RADIO)

### Harness Layout

INFOID:000000004238685



# ANTENNA FEEDER (SATELLITE RADIO)

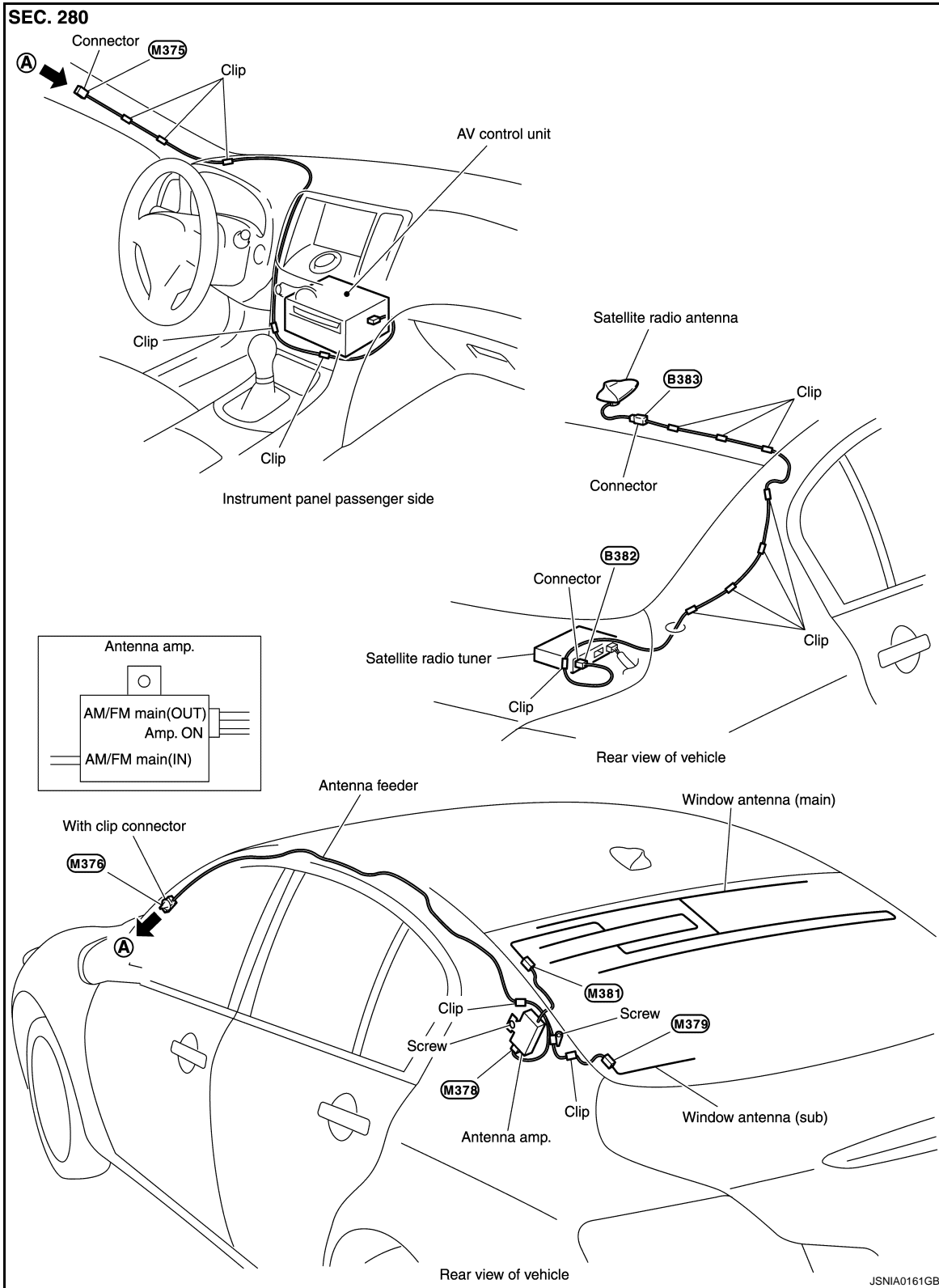
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## ANTENNA FEEDER (SATELLITE RADIO)

### Harness Layout

INFOID:000000004238686



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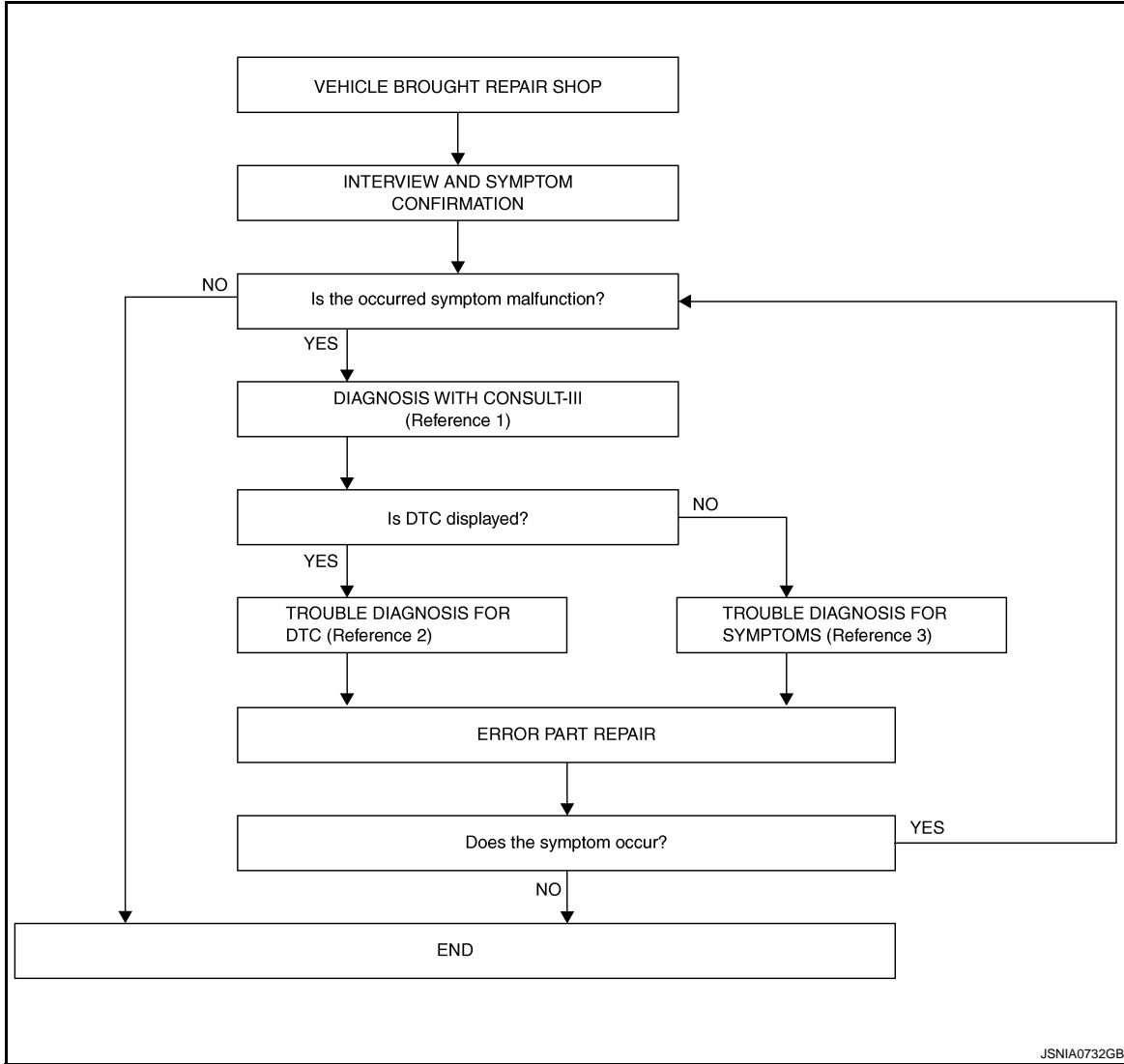
**BASIC INSPECTION**

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000004238687

OVERALL SEQUENCE



- Reference 1... Refer to [AV-383. "CONSULT - III Function \(MULTI AV\)".](#)
- Reference 2... Refer to [AV-470. "DTC Index".](#)
- Reference 3... Refer to [AV-562. "Symptom Table".](#)

DETAILED FLOW

**1. INTERVIEW AND SYMPTOM CONFIRMATION**

Check the malfunction symptoms by performing the following items.

- Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred).
- Check the symptom.

Is the occurred symptom malfunction?

- YES >> GO TO 2.
- NO >> INSPECTION END

**2. DIAGNOSIS WITH CONSULT-III**

# DIAGNOSIS AND REPAIR WORK FLOW

[BOSE AUDIO WITH NAVIGATION]

< BASIC INSPECTION >

1. Connect CONSULT-III and perform a self-diagnosis for "MULTI AV". Refer to [AV-383, "CONSULT - III Function \(MULTI AV\)"](#).

**NOTE:**

Skip to step 4 of the diagnosis procedure if "MULTI AV" is not displayed.

2. Check if any DTC is displayed in the self-diagnosis results.

Is DTC displayed?

YES >> GO TO 3.

NO >> GO TO 4.

## 3. TROUBLE DIAGNOSIS FOR DTC

1. Check the DTC indicated in the self-diagnosis results.
2. Perform the relevant diagnosis referring to the DTC Index. Refer to [AV-470, "DTC Index"](#).

>> GO TO 5.

## 4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to [AV-562, "Symptom Table"](#).

>> GO TO 5.

## 5. ERROR PART REPAIR

1. Repair or replace the identified malfunctioning parts.
2. Perform a self-diagnosis for "MULTI AV" with CONSULT-III.

**NOTE:**

Erase the stored self-diagnosis results after repairing or replacing the relevant components if any DTC has been indicated in the self-diagnosis results.

3. Check that the symptom does not occur.

Does the symptom occur?

YES >> GO TO 1.

NO >> INSPECTION END

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AV

## INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[BOSE AUDIO WITH NAVIGATION]

### INSPECTION AND ADJUSTMENT

#### ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:000000004238688

Always correct the center position of the rear view monitor's possible route line after disconnecting the battery negative terminal.

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:000000004238689

#### 1. CORRECTION OF CENTER POSITION OF REAR VIEW MONITOR'S POSSIBLE ROUTE LINE

Refer to the following for details.

>> Refer to [AV-350, "REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement"](#).

#### ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000004238690

When camera control unit is replaced, the center position of rear view monitor possible route line is corrected.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:000000004238691

#### 1. CORRECTION OF CENTER POSITION OF REAR VIEW MONITOR'S POSSIBLE ROUTE LINE

Refer to the following for details.

>> Refer to [AV-350, "REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement"](#).

#### REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUSTMENT

REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUSTMENT : Description

INFOID:000000004238692

Adjust the center position of the possible route line of the rear view monitor if it is shifted.

REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement

INFOID:000000004238693

#### 1. STEERING OPERATION

Steer the steering wheel to the leftmost and rightmost ends.

>> GO TO 2

#### 2. DRIVING

Drive the vehicle straight ahead 100 m (328.1 ft) or more at a speed of 30 km/h (18.6 MPH) or more.

>> END

# MULTI AV SYSTEM

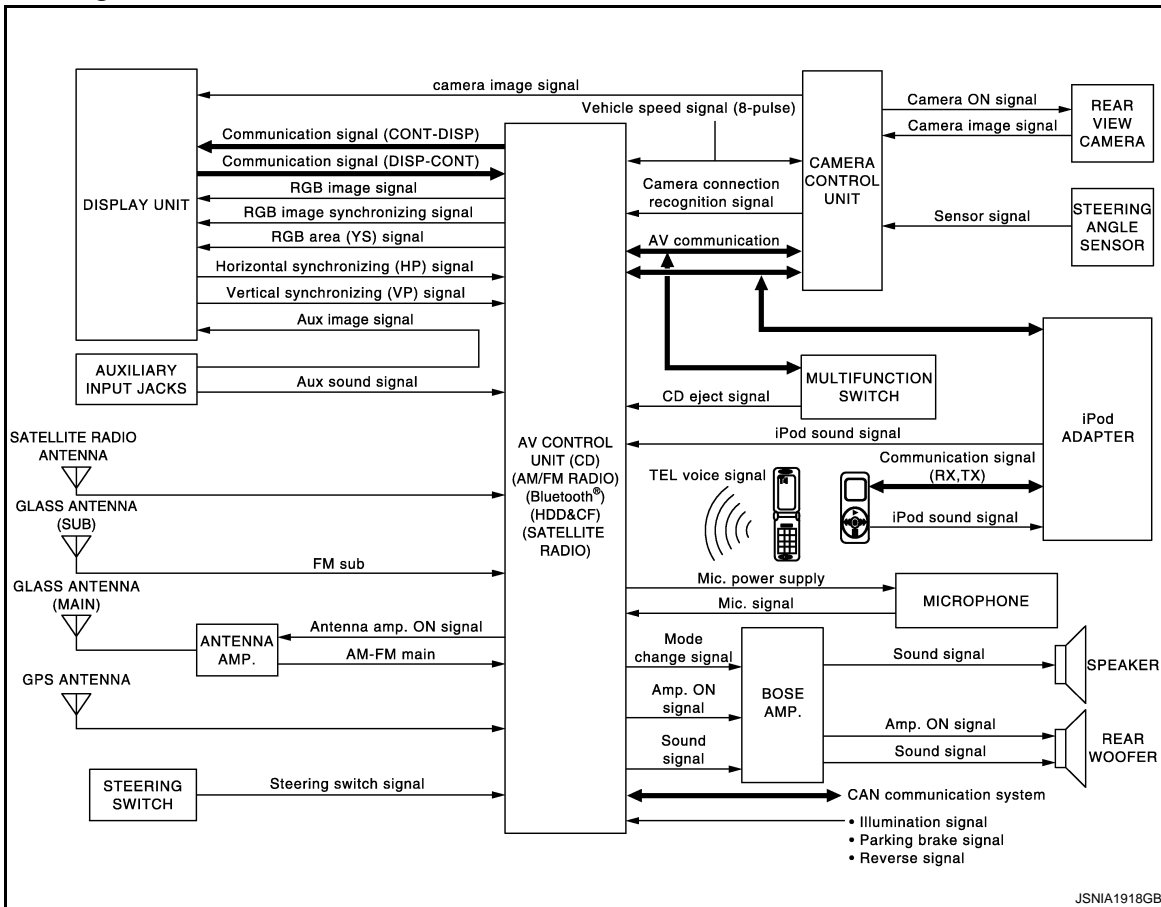
< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

## SYSTEM DESCRIPTION

### MULTI AV SYSTEM

#### System Diagram



**NOTE:**

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

#### System Description

Multi AV system means that the following systems are integrated.

| System name                | System explanation  |
|----------------------------|---|
| NAVIGATION SYSTEM          | <a href="#">AV-357. "System Description"</a>  |
| AUDIO SYSTEM               | <a href="#">AV-365. "System Description"</a>  |
| REAR VIEW MONITOR SYSTEM   | <a href="#">AV-362. "System Description"</a>  |
| VEHICLE INFORMATION SYSTEM | <ul style="list-style-type: none"> <li>Status of audio, climate control system, fuel economy, maintenance and navigation is displayed.</li> <li>AV control unit displays the fuel consumption status while receiving data signal through CAN communication from ECM, unified meter and A/C amp. and BCM.</li> </ul> |
| HANDS-FREE PHONE SYSTEM    | Refer to the following "HANDS-FREE PHONE SYSTEM".   |
| AUXILIARY INPUT SYSTEM     | Refer to the following "AUXILIARY INPUT SYSTEM".  |
| VOICE RECOGNITION SYSTEM   | Refer to the following "VOICE RECOGNITION SYSTEM".  |
| TOUCH PANEL SYSTEM         | Refer to the following "TOUCH PANEL SYSTEM".  |

- AV control unit function by transmitting/receiving data one by one with each unit (slave unit) that configures them completely as a master unit by connecting between units that configure MULTI AV system with two AV communication lines (H, L).

# MULTI AV SYSTEM

[BOSE AUDIO WITH NAVIGATION]

## < SYSTEM DESCRIPTION >

- Two AV communication lines (H, L) adopt a twisted pair line that is resistant to noise.
- AV control unit is connected by CAN communication, and it receives data signal from ECM, unified meter and A/C amp. It computes and displays fuel economy information value with the obtained information. Transmitting/receiving of data signal is performed by BCM. Also, it transmits the required signal of vehicle setting and receives the response signal.
- AV control unit is connected with display and serial communication, and it transmits the required signal of display and display control and receives the response signal from display. Also, it is connected with satellite radio by serial communication, and it transmits the operating signal and receives the display signal.

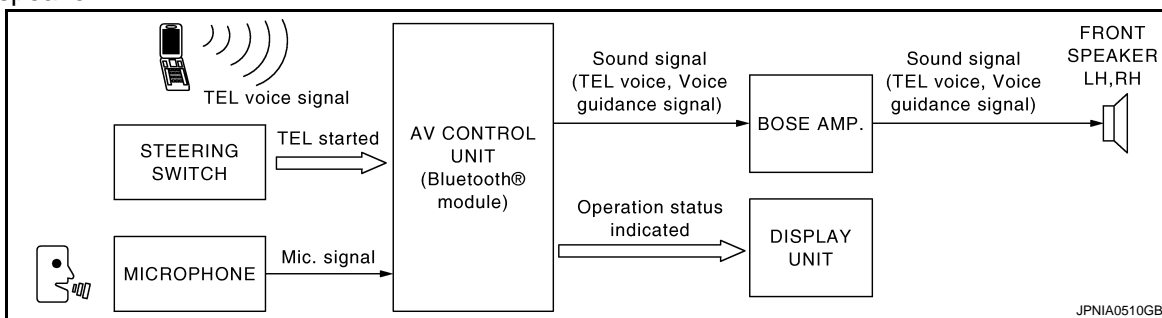
### NOTE:

AV control unit can perform CONSULT-III self-operating function and on board self-diagnosis.

- CONSULT-III self diagnosis: Refer to [AV-383, "CONSULT - III Function \(MULTI AV\)"](#).
- On board self diagnosis: Refer to [AV-369, "Diagnosis Description"](#).

## HANDS-FREE PHONE SYSTEM

- Hands-free communication can be operated by connecting using Bluetooth® with cellular phone.
- Operation is performed by steering switch, and operating condition is indicated on display.
- Guide sound that is heard during operation is input from AV control unit to BOSE amp., and is output from door speaker.



### When A Call Is Originated

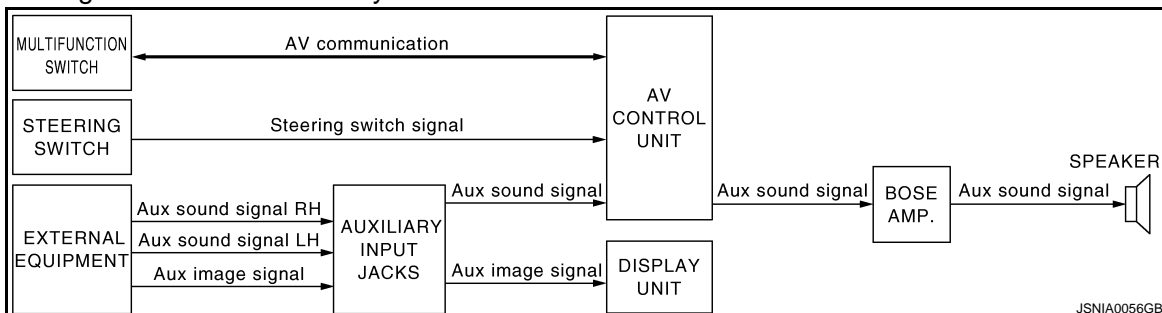
Spoken voice sound output from the microphone (Mic. Signal) is input to AV control unit. AV control unit outputs to cellular phone with Bluetooth communication as a TEL voice signal. Voice sound is then heard at the other party.

### When Receiving A Call

Voice sound is input to own cellular phone from the other party. TEL voice signal is output to door speaker, and the signal is input to BOSE amp. via AV control unit by establishing Bluetooth communication from cellular phone.

## AUXILIARY INPUT SYSTEM

- Image and sound can be output from an external device by connecting a device with auxiliary input jacks.
- Operation can be performed with multifunction switch and steering switch. Multifunction switch transmits operation signal to AV control unit by AV communication.



## VOICE RECOGNITION SYSTEM

- Each operation of multi AV system can be performed by inputting sound to microphone.

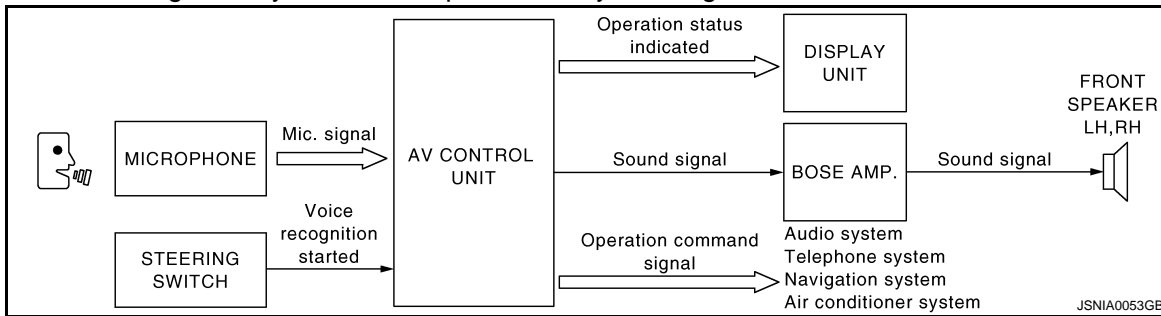


# MULTI AV SYSTEM

## < SYSTEM DESCRIPTION >

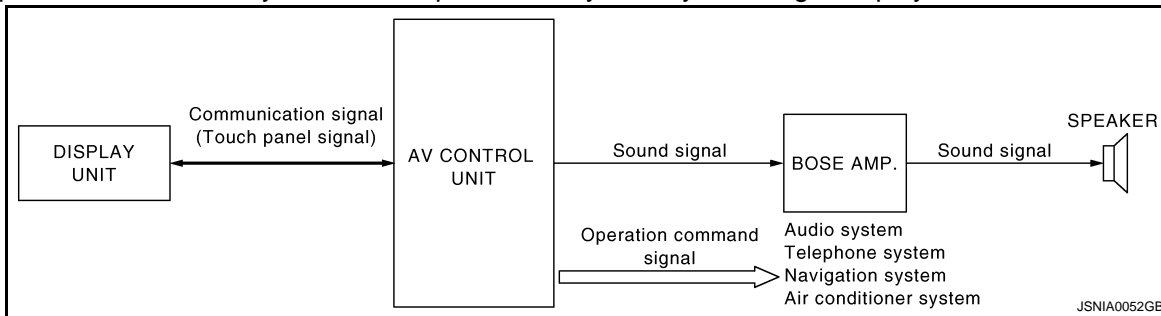
## [BOSE AUDIO WITH NAVIGATION]

- Start of sound recognition system can be performed by steering switch.



## TOUCH PANEL SYSTEM

Each operation of multi AV system can be performed by directly touching a display.



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AV

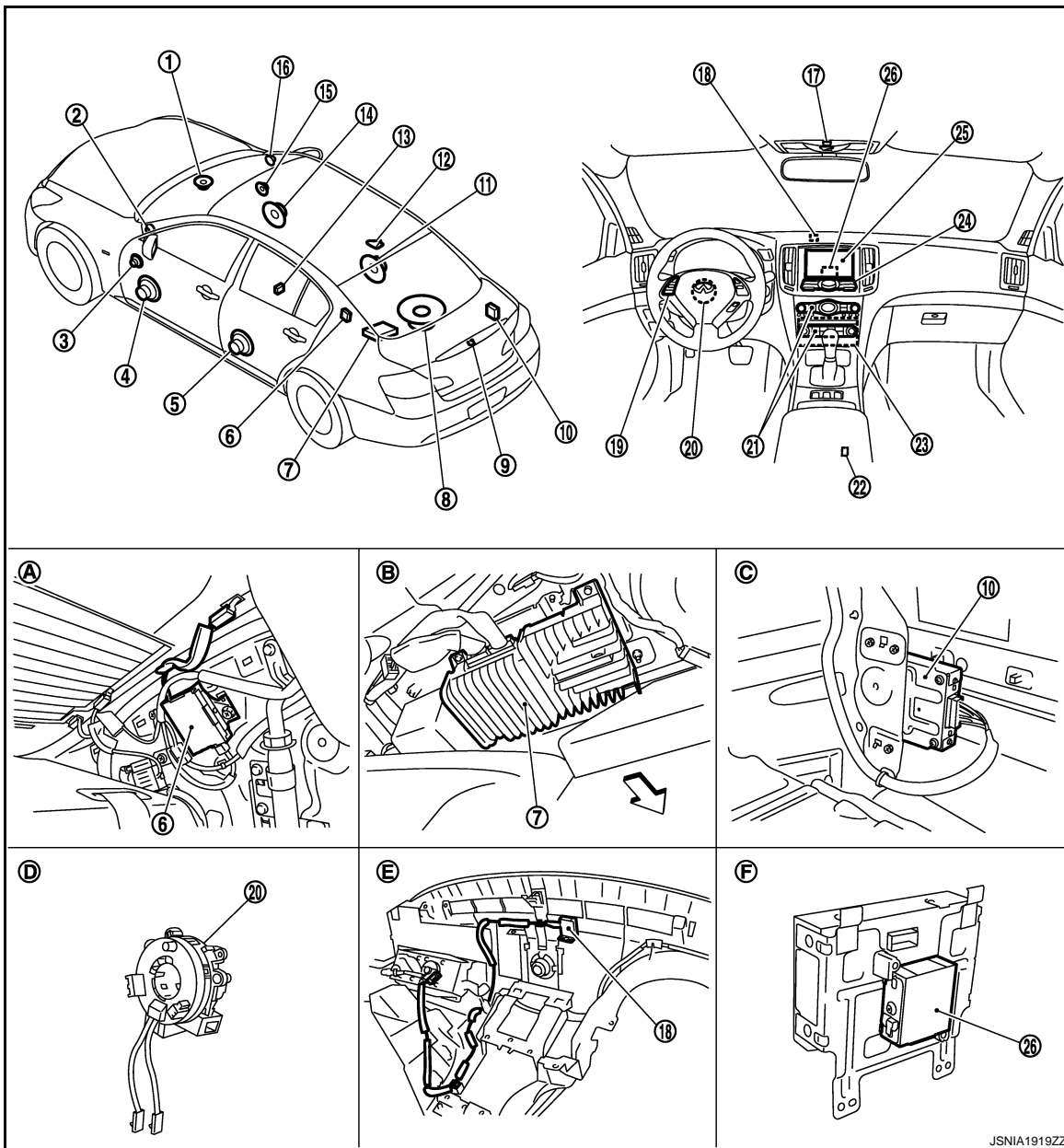
# MULTI AV SYSTEM

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

## Component Parts Location

INFOID:000000004238696



JSNIA1919ZZ

- |                                   |                                    |                             |
|-----------------------------------|------------------------------------|-----------------------------|
| 1. Center speaker                 | 2. Tweeter LH                      | 3. Front door squawker LH   |
| 4. Front door woofer LH           | 5. Rear door speaker               | 6. Antenna amp.             |
| 7. BOSE amp.                      | 8. Rear woofer                     | 9. Rear view camera         |
| 10. Camera control unit           | 11. Rear door speaker RH           | 12. Satellite radio antenna |
| 13. Auxiliary input jacks         | 14. Front door woofer RH           | 15. Front door squawker RH  |
| 16. Tweeter RH                    | 17. Microphone                     | 18. GPS antenna             |
| 19. Steering switch               | 20. Steering angle sensor          | 21. Preset switch           |
| 22. iPod connector                | 23. AV control unit                | 24. Multifunction switch    |
| 25. Display unit                  | 26. iPod adapter                   |                             |
| A. Within rear pillar finisher LH | B. Lower part of rear parcel shelf | C. Trunk room right side    |
| D. Spiral cable part              | E. Instrument panel rear side      | F. Rear view of the display |

←: Vehicle front

# MULTI AV SYSTEM

[BOSE AUDIO WITH NAVIGATION]

< SYSTEM DESCRIPTION >

## Component Description

INFOID:000000004238697

| Part name            | Description   |
|----------------------|---|
| AV CONTROL UNIT      | <ul style="list-style-type: none"> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> </ul> |
| DISPLAY UNIT         | <ul style="list-style-type: none"> <li>Display image is controlled by the serial communication from AV control unit.</li> <li>RGB image signal is input from AV control unit (RGB, RGB area and RGB synchronizing). Auxiliary image signal is input from the auxiliary input jack. Camera image signal is input from camera control unit.</li> <li>Synchronize signal (HP, VP) is output to AV control unit.</li> <li>Touch panel function can be operated for each system by touching a display directly.</li> </ul>   |
| BOSE AMP.            | Inputs power (amp. ON) and sound signal from AV control unit, and outputs sound signal to each speaker.   |
| FRONT DOOR WOOFER    | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs low-pitched sound.</li> </ul>   |
| FRONT DOOR SQUAWKER  | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs midrange sound.</li> </ul>  |
| REAR DOOR SPEAKER    | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs high, mid and low range sounds.</li> </ul>  |
| TWEETER              | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs high range sound.</li> </ul>  |
| CENTER SPEAKER       | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs high, mid and low range sounds.</li> </ul>  |
| REAR WOOFER          | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs low-pitched sound.</li> <li>Power (amp. ON signal) is supplied from BOSE amp.</li> </ul>  |
| MULTIFUNCTION SWITCH | <ul style="list-style-type: none"> <li>Operation panel is equipped with the centralized switch where audio, auxiliary input and navigation operations are integrated.</li> <li>Connected with preset switch via cable, and operation signal is transmitted to AV control unit via AV communication.</li> </ul>  |
| PRESET SWITCH        | <ul style="list-style-type: none"> <li>Operation panel is equipped with the centralized switch where audio and air conditioner operations are integrated.</li> <li>Connected with multifunction switch via cable, and operation signal is transmitted to AV control unit via AV communication.</li> <li>The CD ejection operating signal is performed by hardwire.</li> </ul>   |
| CAMERA CONTROL UNIT  | <ul style="list-style-type: none"> <li>Camera image signal is input from rear view camera. Camera image signal output to display.</li> <li>Power (camera ON signal) is transmitted to rear view camera.</li> <li>Controlled by AV communication transmitted from AV control unit.</li> <li>AV control unit recognizes the presence of camera system with camera connection recognition signal.</li> </ul>   |

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# MULTI AV SYSTEM

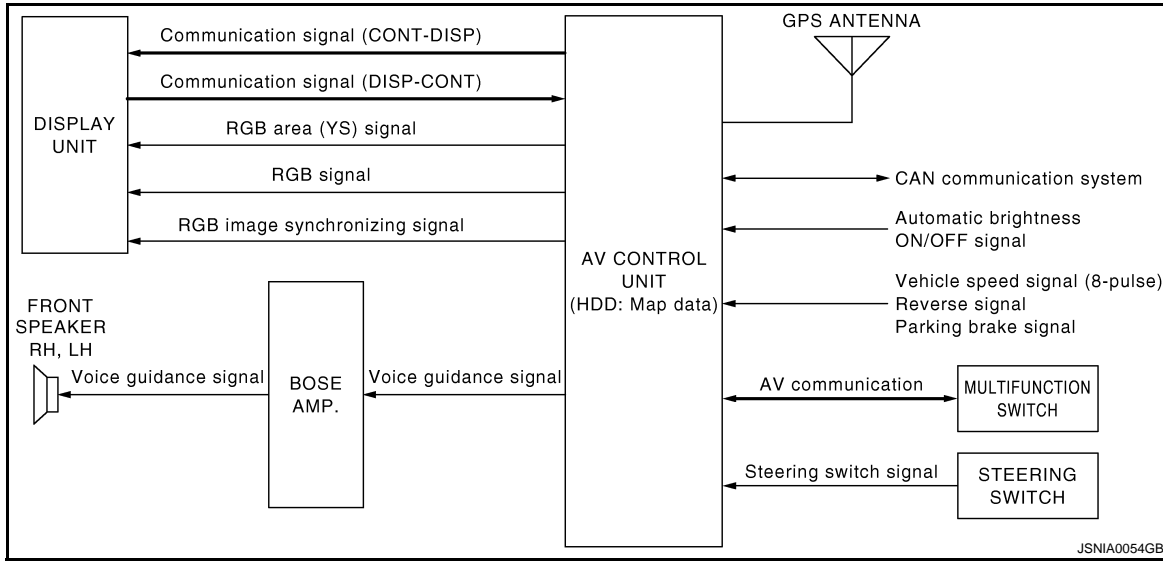
< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

| Part name               | Description  |
|-------------------------|--|
| REAR VIEW CAMERA        | The image of vehicle rear view is transmitted to camera control unit.  |
| STEERING SWITCH         | <ul style="list-style-type: none"><li>• Operations for audio, hands-free phone, audio response and navigation, etc. are possible.</li><li>• Steering switch signal (operation signal) is output to AV control unit.</li></ul>  |
| STEERING ANGLE SENSOR   | Sensor signal (steering angle) is transmitted to camera control unit.  |
| MICROPHONE              | <ul style="list-style-type: none"><li>• Used for hands-free phone operation and voice recognition.</li><li>• Mic signal is transmitted to AV control unit.</li><li>• Power (Mic VCC) is supplied from AV control unit.</li></ul>   |
| AUXILIARY INPUT JACKS   | Image signal of auxiliary input is transmitted to display, and sound signal is transmitted to AV control unit.   |
| GPS ANTENNA             | GPS signal is received and transmitted to AV control unit.   |
| ANTENNA AMP.            | <ul style="list-style-type: none"><li>• Radio signal received by glass antenna is amplified and transmitted to AV control unit.</li><li>• Power (antenna amp. ON signal) is supplied from AV control unit.</li></ul>   |
| SATELLITE RADIO ANTENNA | Satellite radio signal is received and transmitted to AV control unit.   |
| iPod ADAPTER            | <ul style="list-style-type: none"><li>• Inputs iPod sound signal from iPod<sup>®</sup>, and outputs iPod sound signal to AV control unit.</li><li>• Receiving/transmitting of iPod<sup>®</sup> operation signals are performed as follows:<ul style="list-style-type: none"><li>- between AV control unit and iPod adapter: AV communication.</li><li>- between iPod<sup>®</sup> and iPod adapter: serial communication.</li></ul></li></ul> |

## NAVIGATION SYSTEM

### System Diagram



### System Description

INFOID:000000004238699

#### DESCRIPTION

- The AV control unit controls navigation function while GPS tuner has built-in map data, GYRO (angle speed sensor), on the HDD (Hard Disk Drive).
- The AV control unit inputs operation signal with communication signal, through display (touch panel) and multifunction switch and steering switch.
- Guide sound is output to front speaker through BOSE amp. from AV control unit when operating navigation system.
- A vehicle position is calculated with the GYRO (angle speed sensor), vehicle sensor, signal from GPS satellite and map data stored on HDD (Hard Disk Drive), and transmits the map image signal (RGB image, RGB area, RGB image synchronizing) to the display.

#### POSITION DETECTION PRINCIPLE

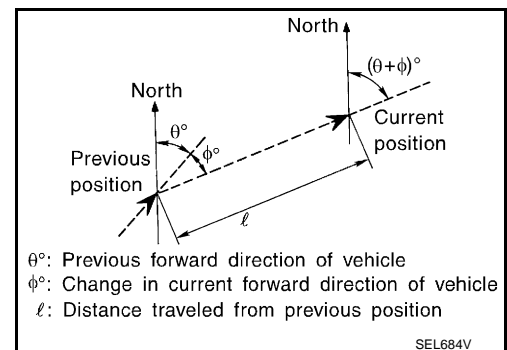
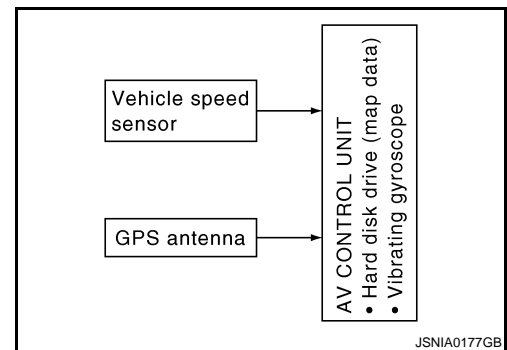
The navigation system periodically calculates the current vehicle position according to the following three types of signals.

- Travel distance of the vehicle as determined by the vehicle speed sensor
- Vehicle turning angle determined by the gyroscope (angular speed sensor)
- The travel direction of the vehicle determined by the GPS antenna (GPS information)

The current position of the vehicle is then identified by comparing the calculated vehicle position with map data, which is stored in the HDD (Hard Disk Drive) (map-matching), and indicated on the screen with a current location mark. More accurate data is used by comparing position detection results from GPS to the map-matching.

The current position is calculated by detecting the travel distance from the previous calculation point, and its direction change.

- Travel distance  
The travel distance is generated from the vehicle speed sensor input signal. The automatic distance correction function is adopted for preventing a miss-detection of the travel distance because of tire wear etc.
- Travel direction  
The gyroscope (angular velocity sensor) and GPS antenna (GPS information) generate the change of the travel direction. Both have advantages and disadvantages as per the following descriptions.

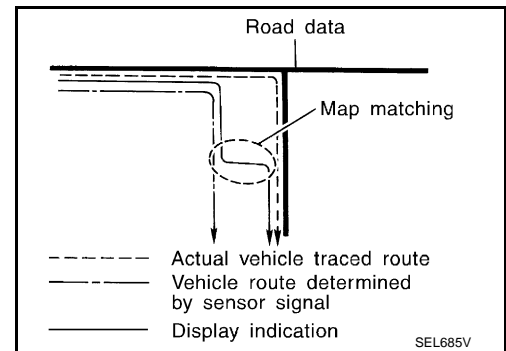


| Type                                | Advantage   | Disadvantage  |
|-------------------------------------|---|---|
| Gyroscope (angular velocity sensor) | The turning angle is precisely detected.                  | Errors are accumulated when driving a long distance without stopping. |
| GPS antenna (GPS information)       | The travel direction (North/South/East/West) is detected. | The travel direction is not precisely detected when driving slowly.   |

Input signals are prioritized in each situation. However, this order of priority may change in accordance with more detailed travel conditions so that the travel direction is detected more accurately.

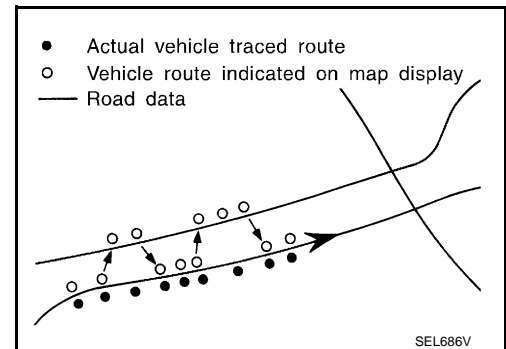
## MAP-MATCHING

Map-matching repositions the vehicle on the road map when a new location is judged to be more accurate. This is done by comparing the current vehicle position (calculated by the normal position detection method) from the map data stored in the HDD (Hard Disk Drive).



There is a possibility that the vehicle position may not be corrected in the following case, and when vehicle is driven over a certain distance or time in which GPS information is hard to receive. Correct manually the current location mark on the screen.

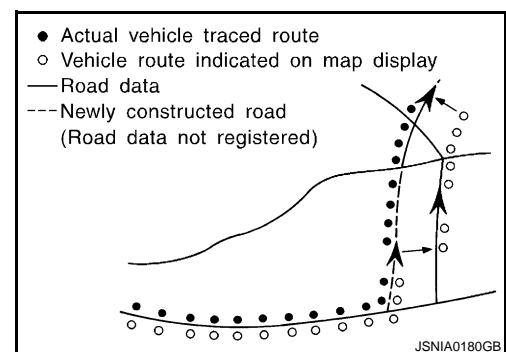
- In map-matching, several alternative routes are prepared and prioritized in addition to the road judged as currently driving on. Therefore, due to errors in the distance and/or direction, an incorrect road may be prioritized, and the current location mark may be repositioned to the incorrect road. If two roads are running in parallel, they are of the same priority. Therefore, the current location mark may appear on either of them alternately, depending on maneuvering of the steering wheel and configuration of the road, etc.



- Map-matching does not function correctly when road on which the vehicle is driving is new, etc. and not recorded in the map data. Also, map-matching does not function correctly when road pattern stored in the map data and the actual road pattern are different due to repair, etc.

Therefore, the map-matching function judges other road as a currently driving road if the road is not in the map, and displays the current location mark on it. Later, the current location mark may be repositioned to the road if the correct road is detected.

- Effective range for comparing the vehicle position and travel direction calculated by the distance and direction with the road data is limited. Therefore, correction by map-matching is not possible when there is an excessive gap between current vehicle position and the position on the map.



## GPS (GLOBAL POSITIONING SYSTEM)

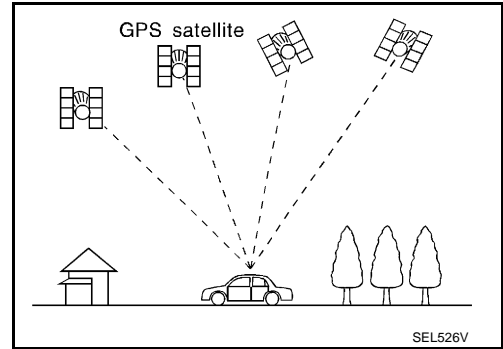
# NAVIGATION SYSTEM

## < SYSTEM DESCRIPTION >

## [BOSE AUDIO WITH NAVIGATION]

GPS (Global Positioning System) is developed for and is controlled by the US Department of Defense. The system utilizes GPS satellites (NAVSTAR), transmitting out radio waves while flying on an orbit around the earth at an altitude of approximately 21,000 km (13,049 mile).

The receiver calculates the travel position in three dimensions (latitude/longitude/altitude) according to the time lag of the radio waves that four or more GPS satellites transmit (three-dimensional positioning). The GPS receiver calculates the travel position in two dimensions (latitude/longitude) with the previous altitude data if the GPS receiver receives only three radio waves (two-dimensional positioning). GPS position correction is not performed while stopping the vehicle.



Accuracy of the GPS will deteriorate under the following conditions:

- In two-dimensional positioning, GPS accuracy will deteriorate when altitude of the vehicle position changes.
- The position of GPS satellite affects GPS detection precision. The position detection may not be precisely performed.
- The position detection is not performed if GPS receiver does not receive radio waves from GPS satellites. (Inside a tunnel, parking in a building, under an elevated highway etc.) GPS receiver may not receive radio waves from GPS satellites if any object is placed on the GPS antenna.

### NOTE:

- The detection result has an error of approximately 10 m (32.81 ft) even with a high-precision three dimensional positioning.
- There may be cases when the accuracy is lowered and radio waves are stopped intentionally because the GPS satellite signal is controlled by the US trace control center.

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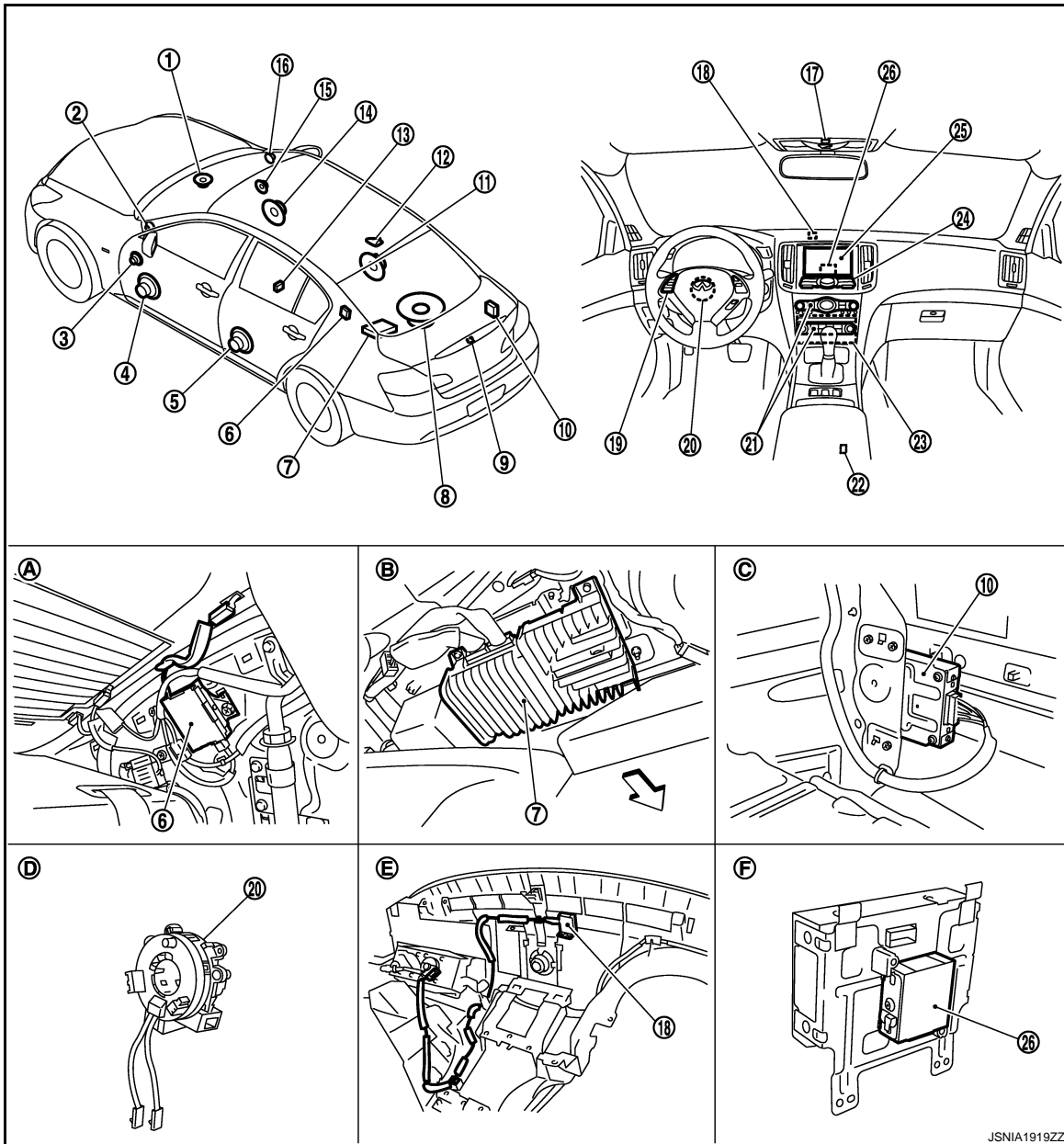
# NAVIGATION SYSTEM

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

## Component Parts Location

INFOID:000000004468040



JSNIA1919ZZ

- |                                   |                                    |                             |
|-----------------------------------|------------------------------------|-----------------------------|
| 1. Center speaker                 | 2. Tweeter LH                      | 3. Front door squawker LH   |
| 4. Front door woofer LH           | 5. Rear door speaker               | 6. Antenna amp.             |
| 7. BOSE amp.                      | 8. Rear woofer                     | 9. Rear view camera         |
| 10. Camera control unit           | 11. Rear door speaker RH           | 12. Satellite radio antenna |
| 13. Auxiliary input jacks         | 14. Front door woofer RH           | 15. Front door squawker RH  |
| 16. Tweeter RH                    | 17. Microphone                     | 18. GPS antenna             |
| 19. Steering switch               | 20. Steering angle sensor          | 21. Preset switch           |
| 22. iPod connector                | 23. AV control unit                | 24. Multifunction switch    |
| 25. Display unit                  | 26. iPod adapter                   |                             |
| A. Within rear pillar finisher LH | B. Lower part of rear parcel shelf | C. Trunk room right side    |
| D. Spiral cable part              | E. Instrument panel rear side      | F. Rear view of the display |

← : Vehicle front



# NAVIGATION SYSTEM

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

## Component Description

INFOID:000000004238701

| Part name            | Description   |
|----------------------|---|
| AV CONTROL UNIT      | <ul style="list-style-type: none"> <li>• It is the master unit that controls each operation of the Navigation system.</li> <li>• The HDD (Hard Disk Drive) is built in, and the map data is stored in HDD.</li> <li>• The RGB signal (map information) is output to the display.</li> <li>• The voice guidance signal is output to the BOSE amp.</li> </ul> |
| DISPLAY UNIT         | <ul style="list-style-type: none"> <li>• Map image signal is input from AV control unit, and it is indicated on the display.</li> <li>• Each operation of navigation can be performed by the touch panel function.</li> </ul>   |
| BOSE AMP.            | Voice guidance signal is input from AV control unit, and it is output to front LH/RH speakers.  |
| FRONT DOOR WOOFER    | Voice guidance signal from BOSE amp. is output.   |
| FRONT DOOR SQUAWKER  |   |
| TWEETER              |   |
| MULTIFUNCTION SWITCH | <ul style="list-style-type: none"> <li>• Each operation of navigation can be performed.</li> <li>• Connected with preset switch via cable and operation signal is transmitted to AV control unit via AV communication.</li> </ul>   |
| STEERING SWITCH      | <ul style="list-style-type: none"> <li>• Each operation of navigation, etc. can be performed.</li> <li>• Switch operating signal is output to AV control unit.</li> </ul>   |
| GPS ANTENNA          | GPS signal is received and is output to AV control unit.  |

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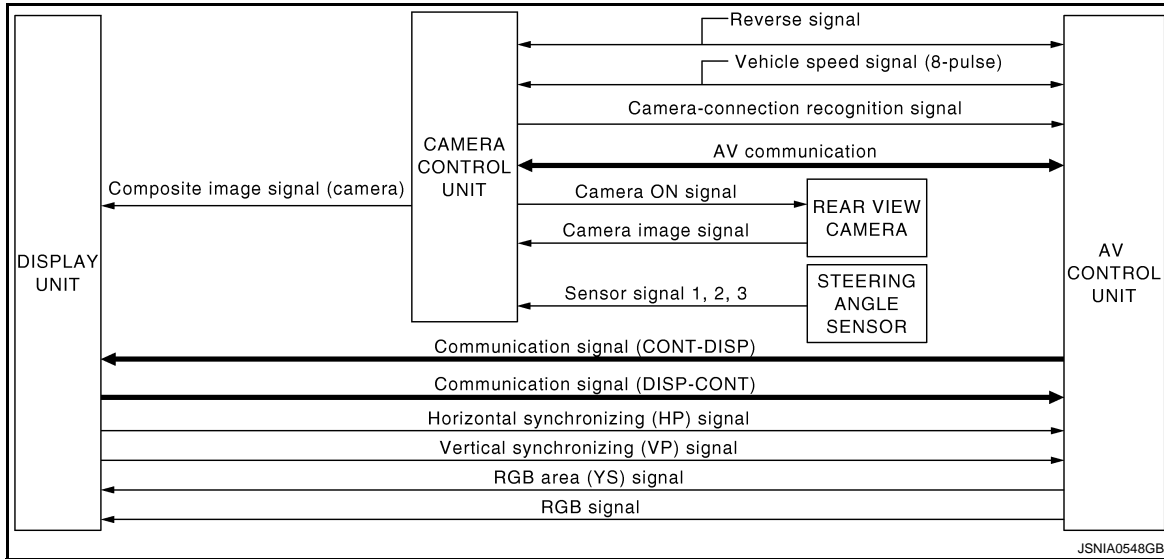
# REAR VIEW MONITOR SYSTEM

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

## REAR VIEW MONITOR SYSTEM

### System Diagram



### System Description

INFOID:000000004238703

#### CAMERA IMAGE OPERATION PRINCIPLE

- Power is supplied to rear view camera from camera control unit and outputs camera image signal to camera control unit when selector lever is set to R position and the reverse signal on camera control unit is input.
- Camera control unit synthesizes guide lines and possible route lines with camera image signal from rear view camera, and transmits camera image signal to the display. In this case, since the reverse signal is also input to AV control unit, the AV control unit recognizes the selector lever as in R position, and it switches communication signal between AV control unit and display unit, and image that is displayed on the display unit by RGB signal with rear view monitor image. In addition, possible route lines are controlled by original sensor signal from steering angle sensor.
- The AV control unit determines whether rear view camera is equipped or not, based on the presence of camera connection recognition signal. It switches to rear view monitor image at the time of reverse signal input when it is equipped.
- Warning message under the rear view monitor display is described by AV control unit.
- AV control unit is connected in communication with camera control unit and display unit, and it controls operation of rear view monitor system.

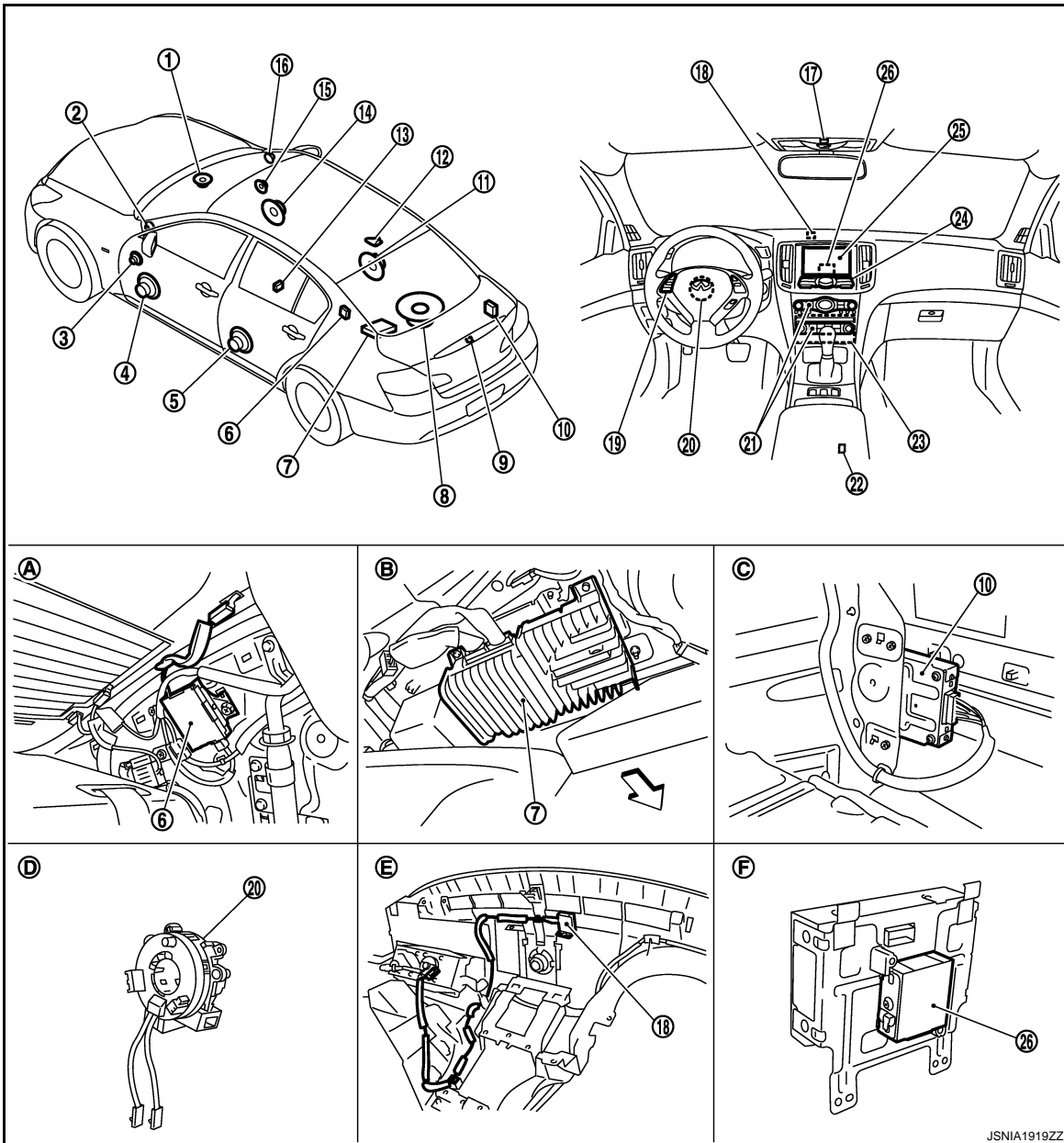
# REAR VIEW MONITOR SYSTEM

[BOSE AUDIO WITH NAVIGATION]

< SYSTEM DESCRIPTION >

## Component Parts Location

INFOID:000000004468041



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|-----------------------------------|------------------------------------|-----------------------------|
| 1. Center speaker                 | 2. Tweeter LH                      | 3. Front door squawker LH   |
| 4. Front door woofer LH           | 5. Rear door speaker               | 6. Antenna amp.             |
| 7. BOSE amp.                      | 8. Rear woofer                     | 9. Rear view camera         |
| 10. Camera control unit           | 11. Rear door speaker RH           | 12. Satellite radio antenna |
| 13. Auxiliary input jacks         | 14. Front door woofer RH           | 15. Front door squawker RH  |
| 16. Tweeter RH                    | 17. Microphone                     | 18. GPS antenna             |
| 19. Steering switch               | 20. Steering angle sensor          | 21. Preset switch           |
| 22. iPod connector                | 23. AV control unit                | 24. Multifunction switch    |
| 25. Display unit                  | 26. iPod adapter                   |                             |
| A. Within rear pillar finisher LH | B. Lower part of rear parcel shelf | C. Trunk room right side    |
| D. Spiral cable part              | E. Instrument panel rear side      | F. Rear view of the display |

←: Vehicle front

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# REAR VIEW MONITOR SYSTEM

[BOSE AUDIO WITH NAVIGATION]

< SYSTEM DESCRIPTION >

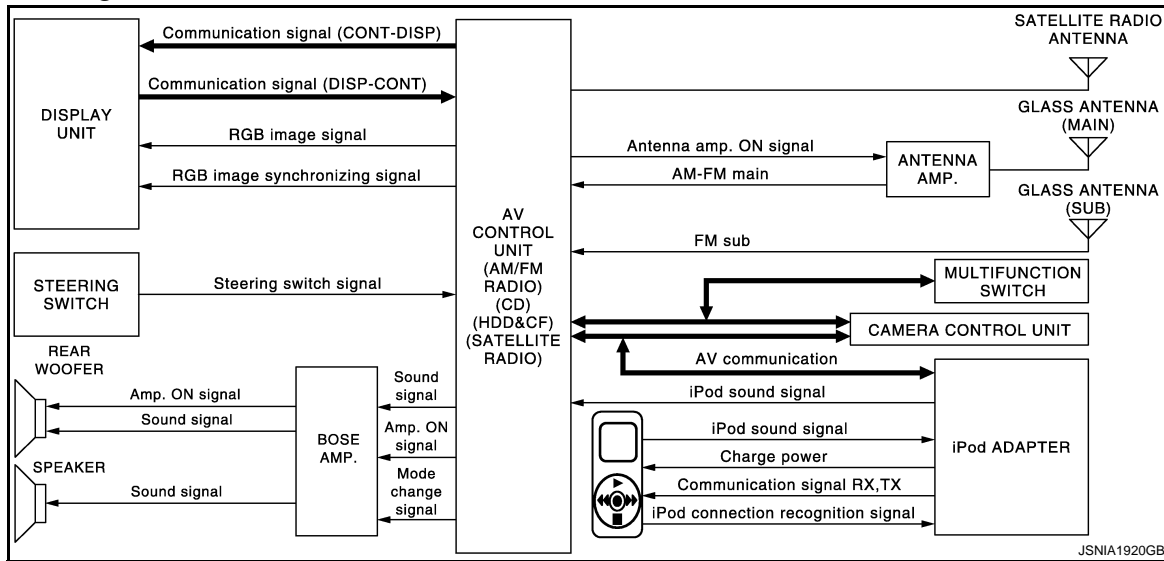
## Component Description

INFOID:000000004238705

| Part name             | Description   |
|-----------------------|---|
| AV CONTROL UNIT       | <ul style="list-style-type: none"><li>• Image on display is changed to rear view monitor image with serial communication between AV control unit and display unit.</li><li>• Warning displayed in rear view monitor image is illustrated.</li></ul>   |
| DISPLAY UNIT          | <ul style="list-style-type: none"><li>• Camera image signal is transmitted from camera control unit, and RGB signal for warning display is transmitted from AV control unit.</li><li>• Rear view monitor image is changed with the communication for AV control unit.</li></ul>   |
| CAMERA CONTROL UNIT   | <ul style="list-style-type: none"><li>• Camera image signal is input from rear view camera, and camera image is indicated on the display.</li><li>• Power (camera ON signal) is transmitted to rear view camera.</li><li>• Controlled by AV communication transmitted from AV control unit.</li><li>• AV control unit recognizes the presence of camera system with camera connection recognition signal.</li></ul> |
| REAR VIEW CAMERA      | The image of vehicle rear view is transmitted to camera control unit.   |
| STEERING ANGLE SENSOR | Steering signal necessary for possible route line control is transmitted to camera control unit.  |

## AUDIO SYSTEM

### System Diagram



### System Description

INFOID:000000004238707

The audio system is equipped with the following functions. Each function is operated with multifunction switch, preset switch, touch panel, steering switch or audio recognition. Operation status of AUDIO is indicated at display.

| Function                    |
|-----------------------------|
| AM/FM radio                 |
| Satellite radio             |
| CD                          |
| Music Box (Hard Disk Drive) |
| CF (Compact Flash)          |
| iPod connection             |
| Driver's Audio Stage        |

### FUNCTION DESCRIPTION

#### Operating Signal

Audio system operation can be performed with multifunction switch, preset switch, steering switch, touch panel function or voice recognition function.

- Operating signal is transmitted to AV control unit with AV communication when it is operated by multifunction switch or preset switch. The CD ejection operating signal is performed by hardware.
- Operating signal is transmitted to AV control unit with steering switch signal when it is operated by steering switch.
- Refer to [AV-351. "System Description"](#) for explanation of voice recognition function and touch panel function.

#### Screen Display

- Switching of display is performed with serial communication between display unit and AV control unit.
- The image signal to display operating condition is performed with RGB signal, RGB area signal and RGB image synchronizing signal.

#### AM/FM Radio Mode

- AM/FM radio tuner is built into AV control unit.
- Audio signal is received by glass antenna, next it is amplified by antenna amp., and finally it is input to AV control unit. Audio signal is input to BOSE amp. and BOSE amp. outputs to each speakers for AV control unit.

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# AUDIO SYSTEM

## < SYSTEM DESCRIPTION >

## [BOSE AUDIO WITH NAVIGATION]

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### Satellite Radio Mode

- Satellite radio tuner is built into AV control unit.
- Audio signal (satellite radio) is received by satellite antenna, and it is input to AV control unit. AV control unit outputs audio signal to BOSE amp. The signal is also outputted from BOSE amp. to each speaker.

### CD Mode

- CD function is built into AV control unit.
- AV control unit outputs audio signal to BOSE amp. and BOSE amp. outputs to each speaker when CD is inserted to AV control unit.

### Music Box Mode

- Music CD data is stored on HDD that is built into AV control unit, and it can be played.
- AV control unit outputs music (audio signal) that is stored on HDD to BOSE amp., and BOSE amp. outputs to each speaker.

### CF Mode

- AV control unit has built in CF replay function.
- Music (audio signal) that is stored in CF outputs to BOSE amp., and BOSE amp. outputs to each speaker when CF is inserted into AV control unit.

### iPod Connection

- Connect iPod® and iPod adapter with wire harness and iPod adapter input iPod sound signal from iPod®. When iPod mode is selected, iPod adapter output iPod sound signal to AV control unit. AV control unit output sound signal to BOSE amp., and BOSE amp. output sound signal to each speaker.
- Receiving/transmitting of iPod® operation signals are performed as follows:
  - between AV control unit and iPod adapter: AV communication.
  - between iPod® and iPod adapter: serial communication.
- The iPod® connection status can be recognized whether iPod adapter receives iPod connection recognition signal.
- The iPod adapter is possible to charge iPod®.

### Driver's Audio Stage Mode

- Driver's Audio Stage controls the speaker's output characteristic by BOSE amp. so that the driver's seat is to be the center of sounds.
- ON/OFF signals of Driver's Audio Stage are transmitted from AV control unit to BOSE amp. using Mode signal.

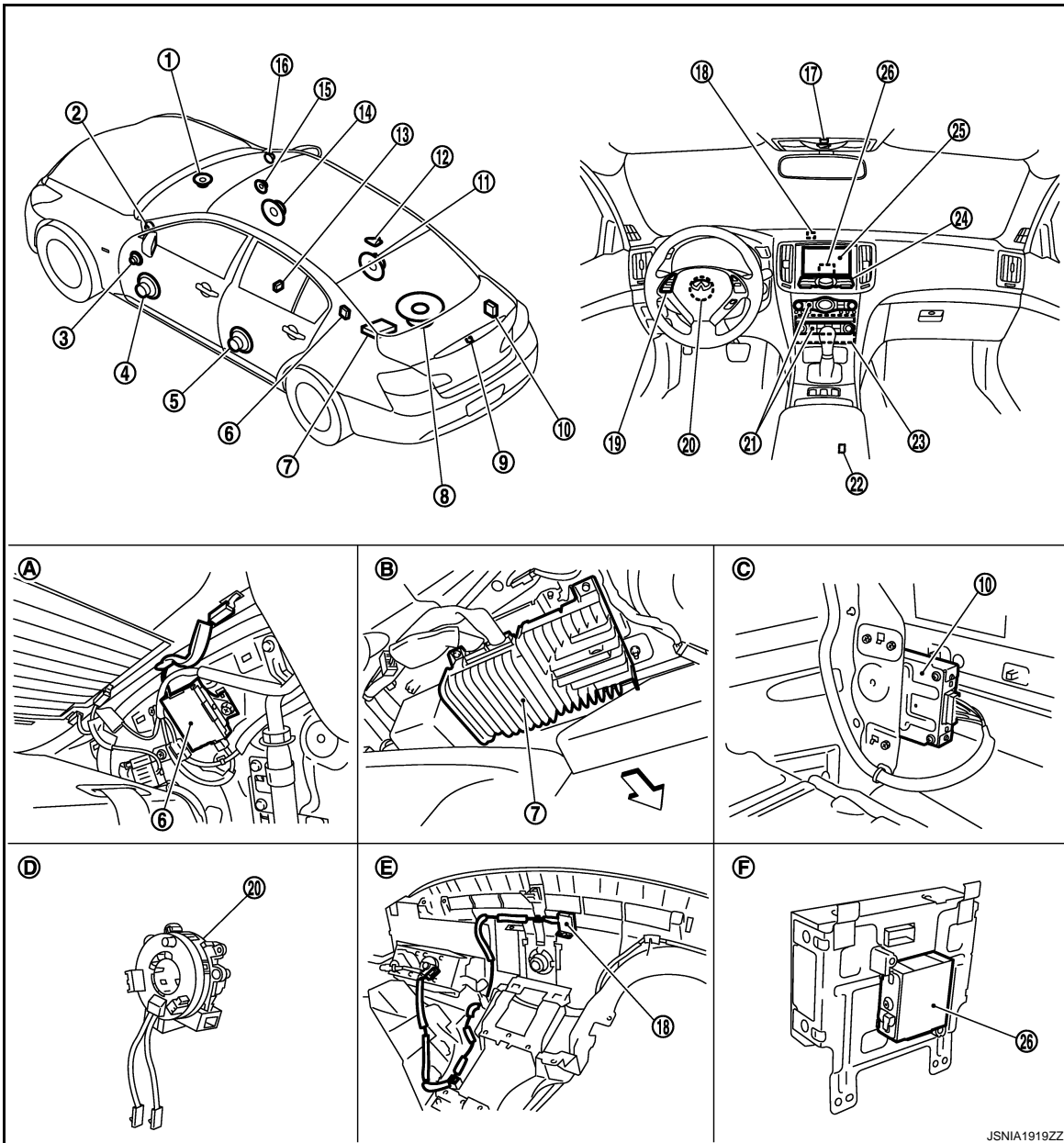
# AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

## Component Parts Location

INFOID:000000004468042



- |                           |                           |                             |
|---------------------------|---------------------------|-----------------------------|
| 1. Center speaker         | 2. Tweeter LH             | 3. Front door squawker LH   |
| 4. Front door woofer LH   | 5. Rear door speaker      | 6. Antenna amp.             |
| 7. BOSE amp.              | 8. Rear woofer            | 9. Rear view camera         |
| 10. Camera control unit   | 11. Rear door speaker RH  | 12. Satellite radio antenna |
| 13. Auxiliary input jacks | 14. Front door woofer RH  | 15. Front door squawker RH  |
| 16. Tweeter RH            | 17. Microphone            | 18. GPS antenna             |
| 19. Steering switch       | 20. Steering angle sensor | 21. Preset switch           |
| 22. iPod connector        | 23. AV control unit       | 24. Multifunction switch    |
| 25. Display unit          | 26. iPod adapter          |                             |
- A. Within rear pillar finisher LH  
 B. Lower part of rear parcel shelf  
 C. Trunk room right side  
 D. Spiral cable part  
 E. Instrument panel rear side  
 F. Rear view of the display

←: Vehicle front

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# AUDIO SYSTEM

[BOSE AUDIO WITH NAVIGATION]

< SYSTEM DESCRIPTION >

## Component Description

INFOID:000000004238709

| Part name               | Description   |
|-------------------------|---|
| AV CONTROL UNIT         | <ul style="list-style-type: none"> <li>Receiving function of AM/FM/satellite radio, replaying function of CD, replaying/saving function of music box (HDD), replaying function of CF and voice recognition function are integrated.</li> <li>BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li> </ul>   |
| DISPLAY UNIT            | <ul style="list-style-type: none"> <li>Display image is controlled by the serial communication from AV control unit.</li> <li>RGB image signal (audio operation condition) is input from AV control unit.</li> <li>Touch panel function can be operated for each system by touching a display directly.</li> </ul>  |
| BOSE AMP.               | Inputs power (amp. ON) and sound signal from AV control unit, and outputs sound signal to each speaker.   |
| FRONT DOOR WOOFER       | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs low-pitched sound.</li> </ul>   |
| FRONT DOOR SQUAWKER     | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs midrange sound.</li> </ul>  |
| REAR DOOR SPEAKER       | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs high, mid and low range sounds.</li> </ul>  |
| TWEETER                 | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs high range sound.</li> </ul>  |
| CENTER SPEAKER          | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs high, mid and low range sounds.</li> </ul>  |
| REAR WOOFER             | <ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs low-pitched sound.</li> <li>Power (amp. ON signal) is supplied from BOSE amp.</li> </ul>  |
| MULTIFUNCTION SWITCH    | <ul style="list-style-type: none"> <li>Each audio operation can be operated.</li> <li>Connected with preset switch via cable, and operation signal is transmitted to AV control unit via AV communication.</li> </ul>   |
| PRESET SWITCH           | <ul style="list-style-type: none"> <li>Each audio operation can be operated.</li> <li>Connected with multifunction switch via cable, and operation signal is transmitted to AV control unit via AV communication.</li> <li>The CD ejection operating signal is performed by hardwire.</li> </ul>  |
| STEERING SWITCH         | <ul style="list-style-type: none"> <li>Each audio operation can be operated.</li> <li>Steering switch signal (operation signal) is output to AV control unit.</li> </ul>  |
| MICROPHONE              | <ul style="list-style-type: none"> <li>It is used for voice activated operation</li> <li>Pronounced voice is converted to voice signal and transmitted to AV control unit.</li> </ul>   |
| ANTENNA AMP.            | <ul style="list-style-type: none"> <li>Radio signal received by glass antenna is amplified and transmitted to AV control unit.</li> <li>Power (antenna amp. ON signal) is supplied from AV control unit.</li> </ul>   |
| SATELLITE RADIO ANTENNA | Audio signal (satellite radio) is received and output to AV control unit.   |
| iPod ADAPTER            | <ul style="list-style-type: none"> <li>Inputs iPod sound signal from iPod®, and outputs iPod sound signal to AV control unit.</li> <li>Receiving/transmitting of iPod® operation signals are performed as follows: <ul style="list-style-type: none"> <li>between AV control unit and iPod adapter: AV communication.</li> <li>between iPod® and iPod adapter: serial communication.</li> </ul> </li> </ul> |



# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BOSE AUDIO WITH NAVIGATION]

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (AV CONTROL UNIT)

### Diagnosis Description

INFOID:000000004238710

#### MULTIFUNCTION SWITCH AND PRESET SWITCH SELF-DIAGNOSIS FUNCTION

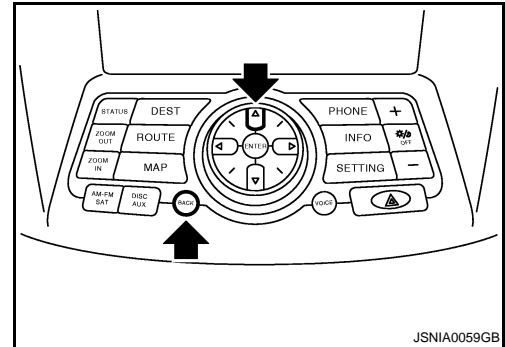
The ON/OFF operation (continuity) of each switch in the multifunction switch and preset switch can be checked.

##### Self-diagnosis Mode

- Press the “BACK” switch and the “UP” switch of the 8-direction switches within 10 seconds after turning the ignition switch from OFF to ACC and hold them for 3 seconds or more. Then the buzzer sounds, all indicators of the preset switch illuminate, and the self-diagnosis mode starts.
- The continuity of each switch at the ON position can be checked by pressing the switch. The buzzer sounds if the switch is normal.

**CAUTION:**

The hazard switch and CD eject switch cannot be checked.



##### Finishing Self-diagnosis Mode

Self-diagnosis mode is canceled when turning the ignition switch OFF.

#### MULTI AV SYSTEM ON BOARD DIAGNOSIS FUNCTION

- The AV control unit diagnosis function starts up with multifunction switch operation and the AV control unit performs a diagnosis for each unit in the system during the on board diagnosis.
- Perform a CONSULT-III diagnosis if the on board diagnosis does not start, e.g., the screen does not display anything, the multifunction switch does not function, etc.

#### ON BOARD DIAGNOSIS

##### Description

- The trouble diagnosis function has a self-diagnosis mode for conducting trouble diagnosis automatically and a confirmation/adjustment mode for operating manually.
- The self-diagnosis mode performs diagnoses on the AV control unit, connections between system components as well as connections between AV control unit and GPS antenna and between AV control unit and satellite radio antenna. Then it displays the diagnosis results on the display.
- The confirmation/adjustment mode allows the technician to check, modify or adjust the vehicle signals and set values, as well as to monitor the system error records and system communication status. The checking, modifying or adjusting generally require human intervention and judgment (the system cannot make judgment automatically).

##### On Board Diagnosis Item

| Mode           | Description   |
|----------------|---|
| Self-Diagnosis | <ul style="list-style-type: none"> <li>• AV control unit diagnosis</li> <li>• Diagnoses the connections across system components, between AV control unit and GPS antenna and between AV control unit and satellite radio antenna.</li> </ul> |

AV

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

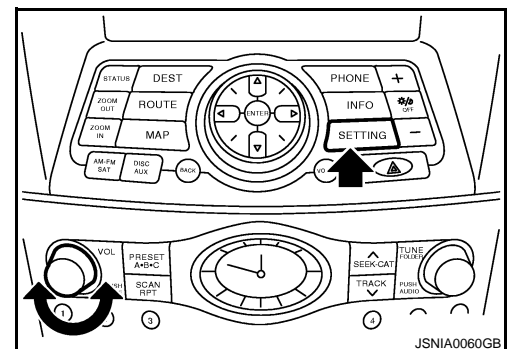
[BOSE AUDIO WITH NAVIGATION]

< SYSTEM DESCRIPTION >

| Mode                        |   | Description  |   |
|-----------------------------|---|--|---|
| Confirmation/<br>Adjustment | Display Diagnosis                                       | The following check functions are available: color tone check by color bar display, light and shade check by gray scale display and touch panel calibration response check.                                |   |
|                             | Vehicle Signals   | Diagnosis of signals can be performed for vehicle speed, parking brake, lights, ignition switch, and reverse.  |   |
|                             | Speaker Test  | The connection of a speaker can be confirmed by test tone.   |   |
|                             | Climate Control   | Start auto air conditioner system self-diagnosis.  |   |
|                             | Navigation  | Steering Angle Adjustment  | When there is a difference between the actual turning angle and the vehicle mark turning angle, it can be adjusted. |
|                             |   | Speed Calibration  | When there is a difference between the current location mark and the actual location, it can be adjusted.           |
|                             |   | XM SAT Subscription Status   | The XM NavTraffic subscription status can be checked.   |
|                             | Error History   | The system malfunction and the frequency when occurring in the past are displayed. When the malfunctioning item is selected, the time and place that the selected malfunction last occurred are displayed. |   |
|                             | Synchronizer FES clock                                  | —  |   |
|                             | Vehicle CAN Diagnosis                                   | The transmitting/receiving of CAN communication can be monitored.  |   |
|                             | AV COMM Diagnosis                                       | The communication condition of each unit of Multi AV system can be monitored.  |   |
|                             | Handsfree Phone   | The received volume adjustment of hands-free phone, microphone speaker check, and erase memory can be performed.   |   |
|                             | Camera Cont.  | The signal connected to camera control unit can be checked and the guiding line position that overlaps rear view camera image can be adjusted.   |   |
|                             | Bluetooth   | The passkey and the device name can be checked and changed.  |   |
|                             | SAT   | Change Channel   | Any necessary channels required to receive traffic information from the satellite radio system can be set.          |
|                             |   | Change Application ID  | Any application ID's required to receive traffic information from the satellite radio system can be set.            |
|                             |   | Diag   | Not used.   |
| Delete Unit Connection Log  | Erase the connection history of unit and error history. |  |   |
| Initialize Settings         | Initializes the AV control unit memory.                 |  |   |

## STARTING PROCEDURE

1. Start the engine.
2. Turn the audio system OFF.
3. While pressing the “SETTING” button, turn the volume control dial clockwise or counterclockwise for 40 clicks or more. (When the self-diagnosis mode is started, a short beep will be heard.)
  - Shifting from current screen to previous screen is performed by pressing “BACK” button.

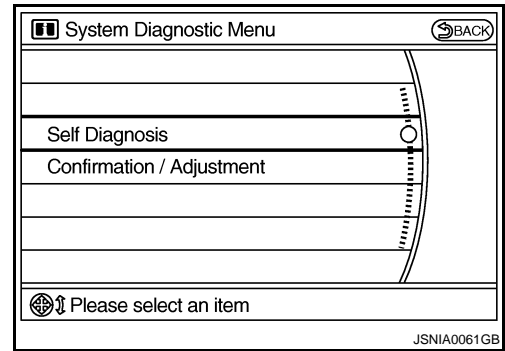


# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BOSE AUDIO WITH NAVIGATION]

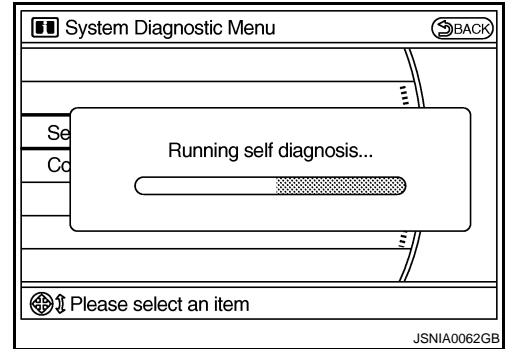
< SYSTEM DESCRIPTION >

- The trouble diagnosis initial screen is displayed, and then the items of "Self Diagnosis" and "Confirmation/Adjustment" can be selected.



## SELF-DIAGNOSIS MODE

- Start the self-diagnosis function and select "Self Diagnosis".
  - Self-diagnosis subdivision screen is displayed, and the self-diagnosis mode starts.
  - The bar graph visible on the center of the self-diagnosis subdivision screen indicates progress of the trouble diagnosis.

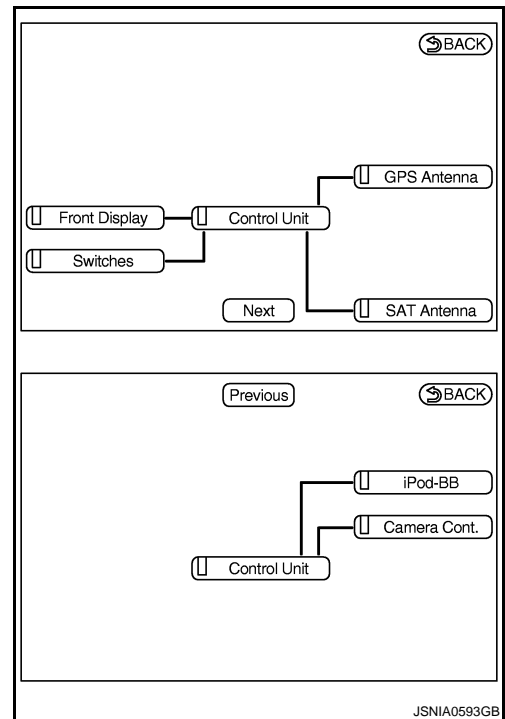


- Diagnosis results are displayed after the self-diagnosis is completed. The unit names and the connection lines are color-coded according to the diagnostic results.

| Diagnosis results                | Unit  | Con-<br>nection<br>line |
|----------------------------------|-------|-------------------------|
| Normal                           | Green | Green                   |
| Connection malfunction           | Gray  | Yellow                  |
| Unit malfunction <sup>Note</sup> | Red   | Green                   |

### NOTE:

- Only the control unit (AV control unit) is displayed in red.
  - Replace AV control unit if "Self-Diagnosis did not run because of a control unit malfunction" is indicated. The symptom is AV control unit internal error. Refer to [AV-575, "Exploded View"](#).
- If multiple errors occur at the same time for a single unit, the screen switch colors are determined according to the following order of priority: red > gray.



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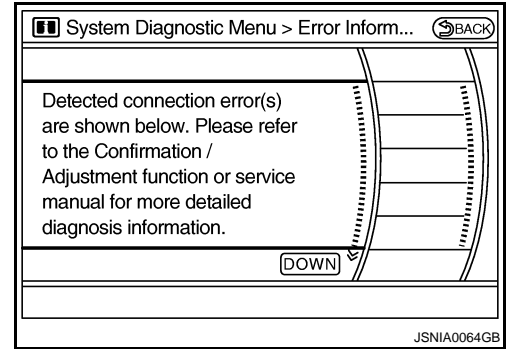
AV

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BOSE AUDIO WITH NAVIGATION]

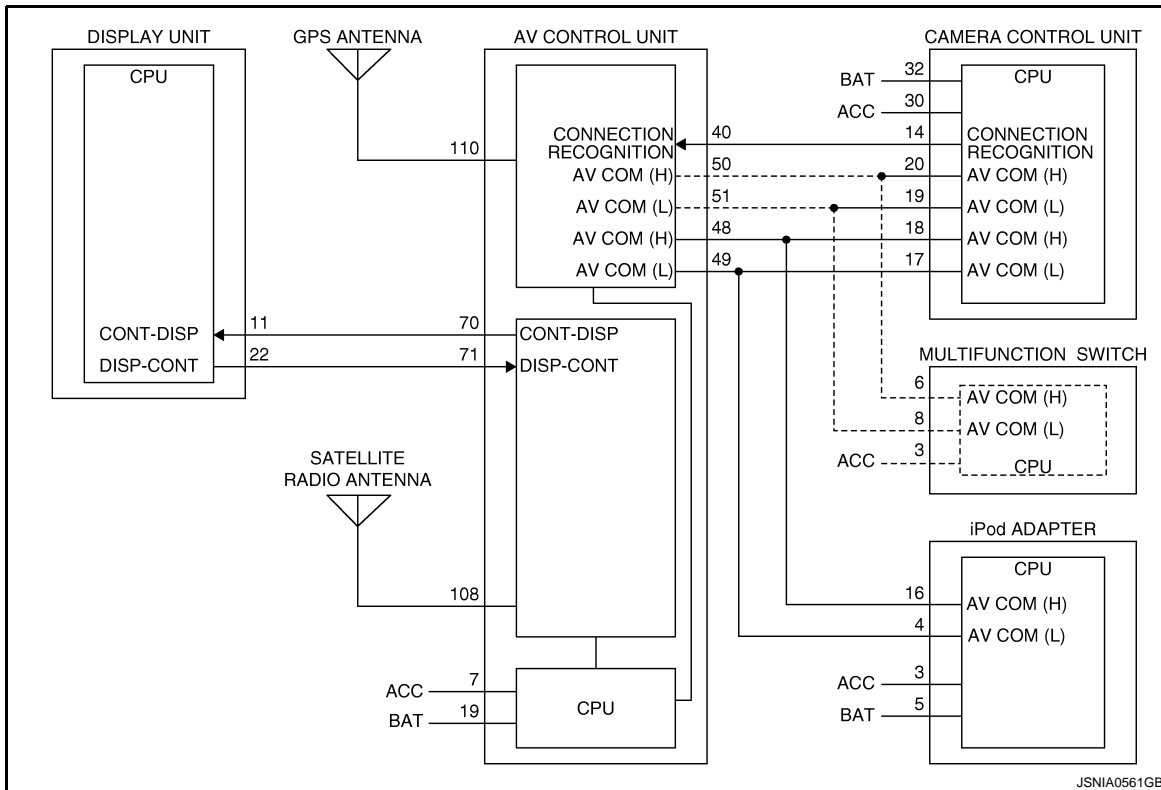
## < SYSTEM DESCRIPTION >

- The comments of the self-diagnosis results can be viewed with a component in the diagnosis result screen.



### Detection Range of Self-diagnosis Mode

- The self-diagnosis mode allows the technician to diagnose the connection in the communication line between AV control unit and each unit and the internal operation of the AV control unit.
- Because the start condition of diagnosis function is a switch operation, the on board diagnosis function cannot be started up if any malfunction is detected in the communication circuit between AV control unit and multifunction switch.



### NOTE:

On board self-diagnosis cannot be started when an error occurs on the dotted-line part above.

## SELF-DIAGNOSIS RESULTS

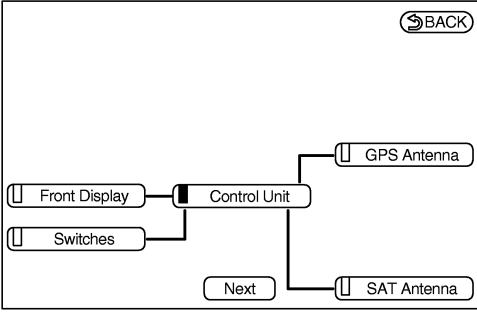
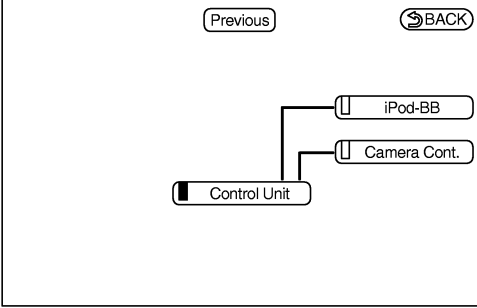
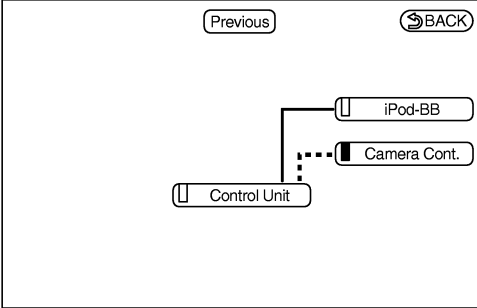
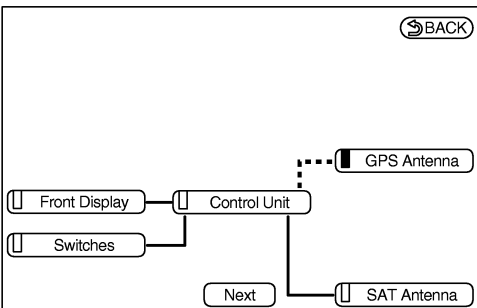
Check the applicable display at the following table, and then repair the malfunctioning parts.

Self-diagnosis Result Chart

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

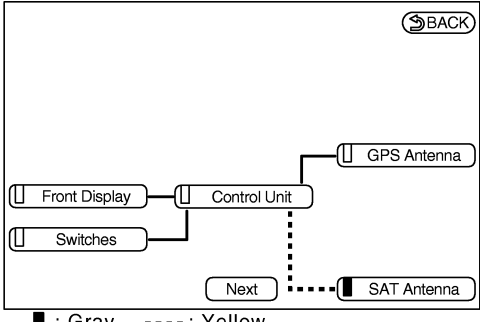
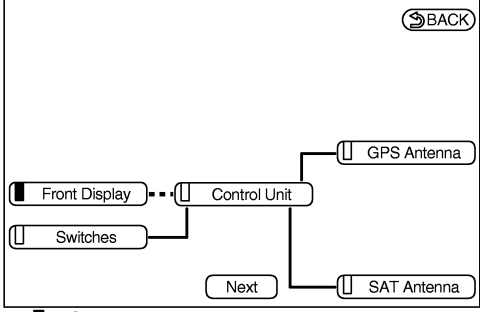
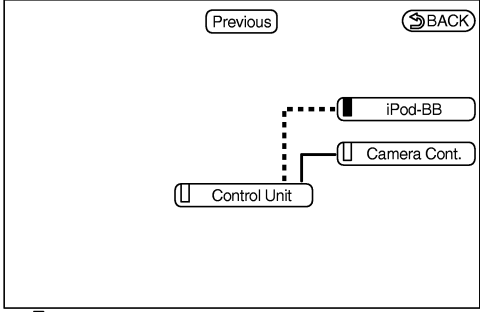
| Area with yellow connection lines  | Description   | Possible malfunction location / Action to take       |
|--|---|--|
|  <p style="text-align: right; font-size: small;">BACK</p>   |   |  |
|  <p style="text-align: right; font-size: small;">Previous BACK</p> <p style="font-size: small;">■ : Red JSNIA0594GB</p> <p><b>NOTE:</b><br/>The line between "Control Unit" and the other items may turn to be yellow when "Control Unit" indicator turn to be red.</p> <p>"Self-Diagnosis did not run because of a control unit malfunction"</p> | <p>AV control unit malfunction is detected.</p>                                 | <p>AV control unit is malfunction.</p>               |
|  <p style="text-align: right; font-size: small;">Previous BACK</p> <p style="font-size: small;">■ : Gray - - - - : Yellow JSNIA0596GB</p>   | <p>Malfunction is detected in camera-connection recognition signal circuit.</p> | <p>Camera connection recognition signal circuit.</p> |
|  <p style="text-align: right; font-size: small;">BACK</p> <p style="font-size: small;">■ : Gray - - - - : Yellow JSNIA0597GB</p>  | <p>GPS antenna connection malfunction is detected.</p>                          | <p>GPS antenna.</p>                                  |

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# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

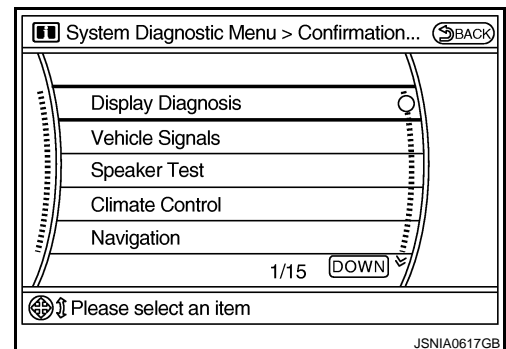
< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

| Area with yellow connection lines   | Description  | Possible malfunction location / Action to take   |
|---|--|--|
|  <p>■ : Gray    - - - - : Yellow</p> <p>JSNIA0598GB</p>  | <p>Poor connection is detected in satellite radio antenna.</p>   | <ul style="list-style-type: none"> <li>• Satellite radio antenna feeder.</li> <li>• Satellite radio antenna.</li> </ul>  |
|  <p>■ : Gray    - - - - : Yellow</p> <p>JSNIA0599GB</p>  | <ul style="list-style-type: none"> <li>• Malfunction is detected in communication circuit between AV control unit and display unit.</li> <li>• Malfunction is detected in communication signal between AV control unit and display unit.</li> </ul>  | <p>Communication circuits between AV control unit and display unit.</p>  |
|  <p>■ : Gray    - - - - : Yellow</p> <p>JSNIA0600GB</p> | <ul style="list-style-type: none"> <li>• iPod adapter power supply and ground circuits.</li> <li>• Malfunction is detected in AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.</li> <li>• Malfunction is detected in AV communication circuits between camera control unit and iPod adapter.</li> <li>• Malfunction is detected in AV communication signal between AV control unit and iPod adapter.</li> </ul> | <ul style="list-style-type: none"> <li>• iPod adapter power supply and ground circuits.</li> <li>• AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.</li> <li>• AV communication circuits between camera control unit and iPod adapter.</li> </ul> |

## CONFIRMATION/ADJUSTMENT MODE

1. Start the diagnosis function and select "Confirmation/Adjustment". The confirmation/adjustment mode indicates where each item can be checked or adjusted.
2. Select each switch on the "Confirmation/Adjustment Mode" screen to display the relevant trouble diagnosis screen. Press the "BACK" switch to return to the initial Confirmation/Adjustment Mode screen.

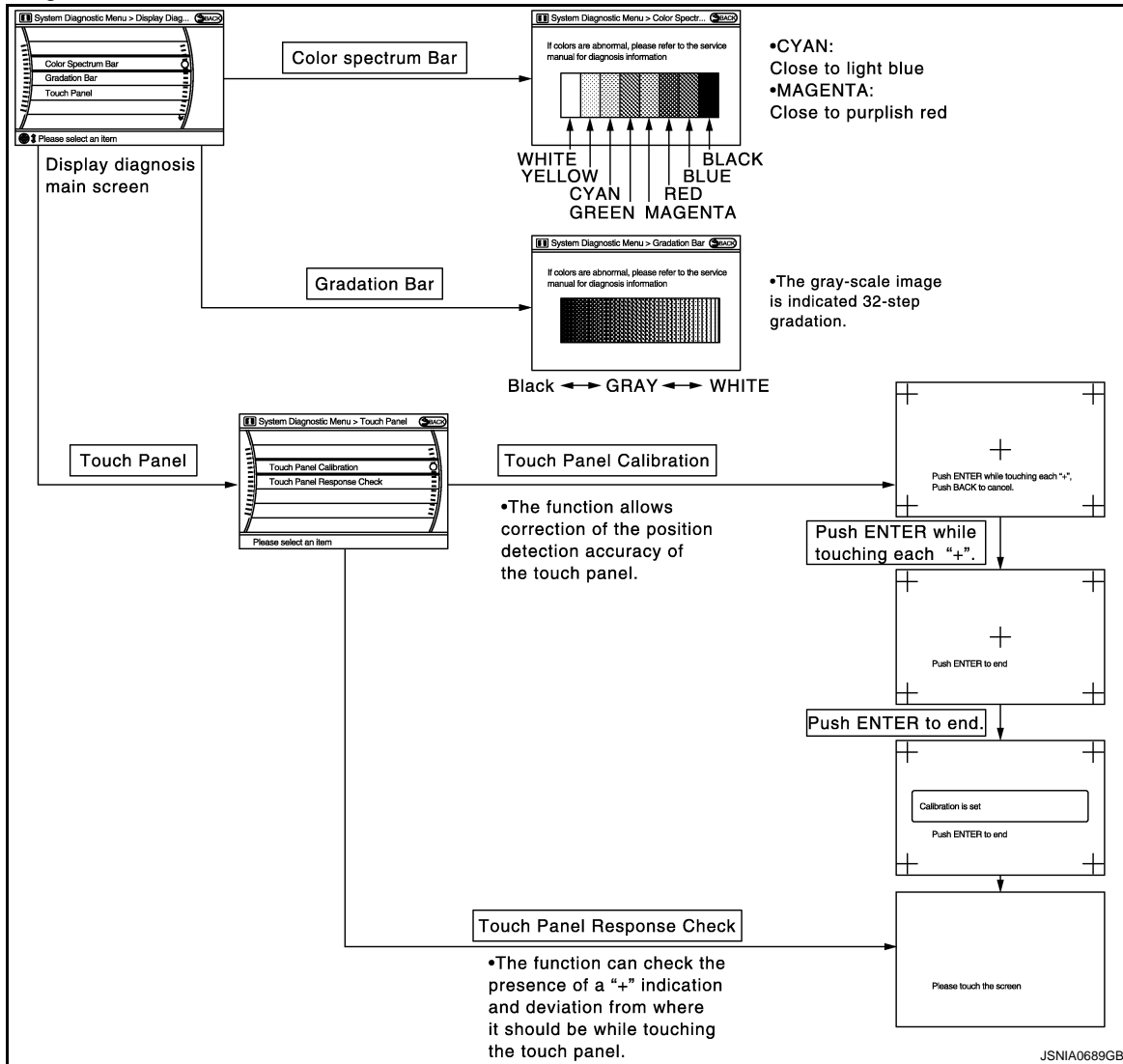


# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

## Display Diagnosis

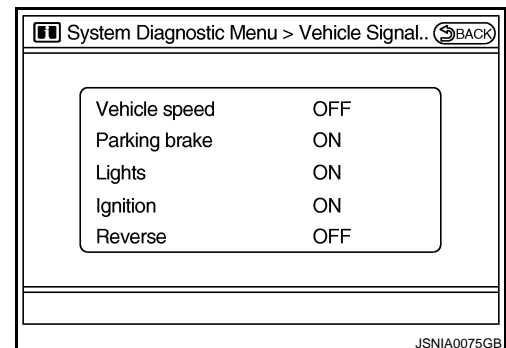


The tint of the color bar indication is as per the following list if RGB signal error is detected.

- R (red) signal error** : Light blue (Cyan) tint
- G (green) signal error** : Purple (Magenta) tint
- B (blue) signal error** : Yellow tint

## Vehicle Signals

A comparison check can be made of each actual vehicle signal and the signals recognized by the system.



# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

| Diagnosis item | Display | Vehicle status                                   | Remarks   |
|----------------|---------|--|---|
| Vehicle speed  | ON      | Vehicle speed > 0 km/h (0 MPH)                   | Changes in indication may be delayed. This is normal. |
|                | OFF     | Vehicle speed = 0 km/h (0 MPH)                   |   |
| Parking brake  | ON      | Parking brake is applied.                        |   |
|                | OFF     | Parking brake is released.                       |   |
| Lights         | ON      | Light switch ON                                  | —   |
|                | OFF     | Light switch OFF                                 | —   |
| Ignition       | ON      | Ignition switch ON                               | —   |
|                | OFF     | Ignition switch in ACC position                  | —   |
| Reverse        | ON      | Shift the selector lever to "R" position         | Changes in indication may be delayed. This is normal. |
|                | OFF     | Shift the selector lever other than "R" position |   |

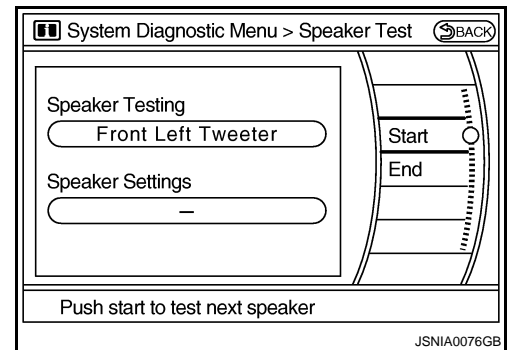
## Speaker Test

Select "SPEAKER DIAGNOSIS" to display the Speaker Diagnosis screen. Press "START and NEXT" to generate a test tone in a speaker. Press "Start" to generate a test tone in the next speaker. Press "End" to stop the test tones.

### NOTE:

The frequency of test tone emitted from each speaker is as follows.

|                           |                 |
|---------------------------|-----------------|
| <b>Tweeter</b>            | <b>: 3 kHz</b>  |
| <b>Front door speaker</b> | <b>: 300 Hz</b> |
| <b>Rear door speaker</b>  | <b>: 1 kHz</b>  |



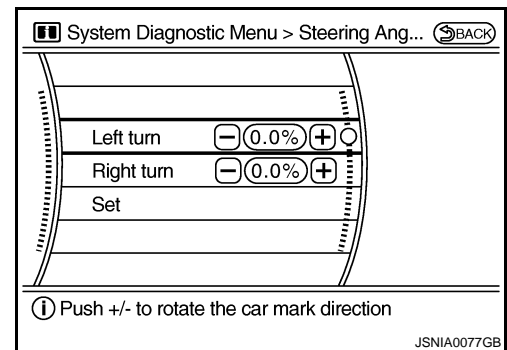
## Climate Control

Refer to "HEATER & AIR CONDITIONING CONTROL SYSTEM" for details.

## Navigation

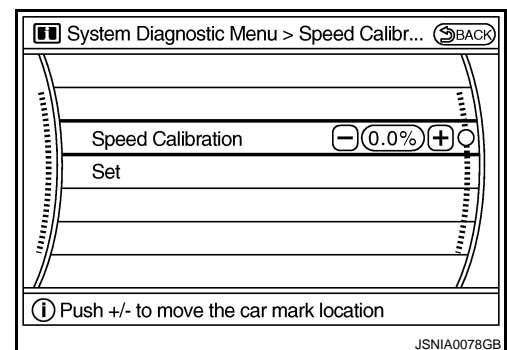
### STEERING ANGLE ADJUSTMENT

The steering angle output value detected with the gyroscope is adjusted.



### SPEED CALIBRATION

During normal driving, distance error caused by tire wear and tire pressure change is automatically adjusted for by the automatic distance correction function. This function, on the other hand, is for immediate adjustment, in cases such as driving with tire chain fitted on tires.





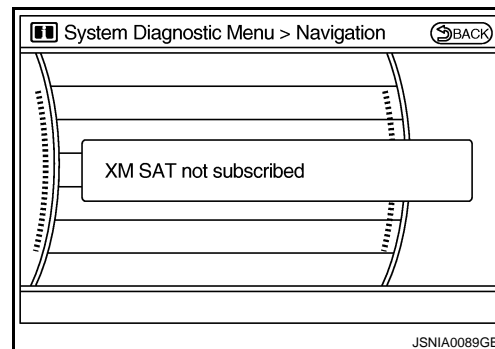
# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

## XM SAT SUBSCRIPTION STATUS

The XM NavTraffic subscription status can be checked.



## Error History

The self-diagnosis results are judged depending on whether any error occurs from when “Self-diagnosis” is selected until the self-diagnosis results are displayed.

However, the diagnosis results are judged normal if an error has occurred before the ignition SW is turned ON and then no error has occurred until the self-diagnosis start. Check the “Error Record” to detect any error that may have occurred before the self-diagnosis start because of this situation.

The error record displays the time and place of the most recent occurrence of that error. However, take note of the following points.

- If there is a malfunction with the GPS antenna circuit board in the AV control unit, the correct date and time of occurrence may not be able to be displayed.
- Place of the error occurrence is represented by the position of the current location mark at the time an error occurred. If current location mark has deviated from the correct position, then the place of the error occurrence cannot be located correctly.
- The frequency of occurrence is displayed in a count up manner. The actual count up method differs depending on the error item.

### Count up method A

- The counter resets to 0 if an error occurs when IGN switch is turned ON. The counter increases by 1 if the condition is normal at a next IGN ON cycle.
- The counter upper limit is 39. Any counts exceeding 39 are ignored. The counter can be reset (no error record display) with the “Delete log” switch or CONSULT-III.

### Count up method B

- The counter increases by 1 if an error occurs when IGN switch is ON. The counter will not decrease even if the condition is normal at the next IGN ON cycle.
- The counter upper limit is 50. Any counts exceeding 50 are ignored. The counter can be reset (no error record display) with the “Delete log” switch or CONSULT-III.

| Display type of occurrence frequency | Error history display item   |
|--------------------------------------|--|
| Count up method A                    | CAN communication line, control unit (CAN), AV communication line, control unit (AV communication) |
| Count up method B                    | Other than the above   |

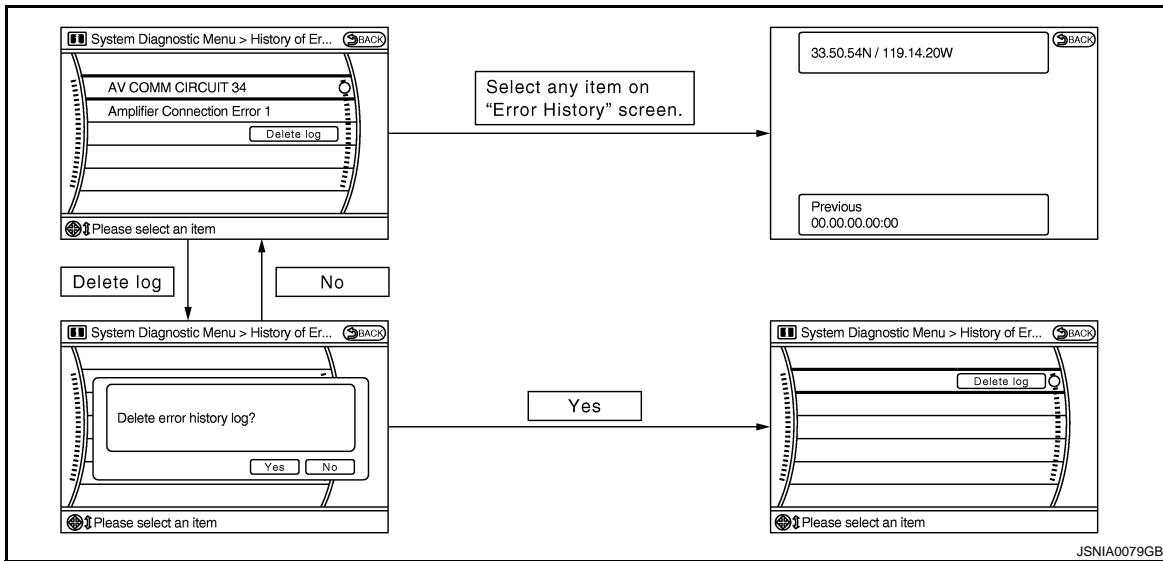
A  
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AV

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]



## Error item

Some error items may be displayed simultaneously according to the cause. If some error items are displayed simultaneously, the detection of the cause can be performed by the combination of display items

| Error item                        | Description   | Possible malfunction factor/Action to take  |
|-----------------------------------|---|---|
| CAN COMM CIRCUIT                  | CAN communication malfunction is detected.                          | Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results.<br>Refer to <a href="#">AV-387, "Diagnosis Procedure"</a> .                          |
| CONTROL UNIT (CAN)                | CAN initial diagnosis malfunction is detected.                      | Replace the AV control unit.  |
| CONTROL UNIT (AV)                 | AV communication circuit initial diagnosis malfunction is detected. |   |
| FLASH-ROM Error Of Control Unit   | AV control unit malfunction is detected.                            |   |
| Connection Of Gyro                |   |   |
| XM SERIAL COMM Error              |   |   |
| CAN Controller Memory Error       |   |   |
| Bluetooth Module Connection Error |   |   |
| HDD CONN Error                    |   |   |
| HDD READ Error                    |   |   |
| HDD WRITE Error                   |   |   |
| HDD COMM Error                    |   |   |
| HDD ACCESS Error                  |   |   |
| DSP CONN Error                    |   |   |
| DSP COMM Error                    |   |   |
| Internal Communication Error      | AV control unit power supply and ground circuits.                   |   |
| GPS Communication Error           | GPS malfunction is detected.  | An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs.<br>Replace the AV control unit if the malfunction occurs constantly. |
| GPS ROM Error                     |   |   |
| GPS RAM Error                     |   |   |
| GPS RTC Error                     |   |   |

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

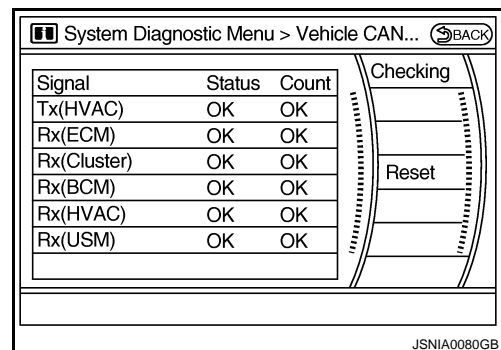
< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

| Error item  | Description   | Possible malfunction factor/Action to take   |
|---|---|--|
| Front Display Connection Error  | <ul style="list-style-type: none"> <li>Display unit power supply and ground circuits malfunction is detected.</li> <li>Malfunction is detected in communication circuits between AV control unit and display unit.</li> <li>Malfunction is detected in communication signal between AV control unit and display unit.</li> </ul>                              | <ul style="list-style-type: none"> <li>Display unit power supply and ground circuits.</li> <li>Communication circuits between AV control unit and display unit.</li> </ul>                   |
| GPS Antenna Error   | GPS antenna connection malfunction is detected.   | GPS antenna.   |
| Camera Control Unit Connection Error  | Malfunction is detected in camera connection recognition circuit between AV control unit and camera control unit.   | Camera-connection recognition circuit between AV control unit and camera control unit.   |
| XM Antenna Connection Error   | Poor connection is detected in satellite radio antenna.   | <ul style="list-style-type: none"> <li>Satellite radio antenna feeder.</li> <li>Satellite radio antenna.</li> </ul>  |
| <ul style="list-style-type: none"> <li>AV COMM CIRCUIT</li> <li>Internal Communication Error</li> </ul>   | <ul style="list-style-type: none"> <li>AV control unit power supply and ground circuits malfunction detected.</li> <li>AV control unit malfunction is detected.</li> </ul>  | AV control unit power supply and ground circuits.  |
| <ul style="list-style-type: none"> <li>AV COMM CIRCUIT</li> <li>Switches Connection Error</li> </ul>  | <ul style="list-style-type: none"> <li>Multifunction switch power supply and ground circuits malfunction is detected.</li> <li>Malfunction is detected in AV communication circuit between AV control unit and multifunction switch.</li> <li>Malfunction is detected in AV communication signal between AV control unit and multifunction switch.</li> </ul> | <ul style="list-style-type: none"> <li>Multifunction switch power supply and ground circuits.</li> <li>AV communication circuit between AV control unit and multifunction switch.</li> </ul> |
| <ul style="list-style-type: none"> <li>AV COMM CIRCUIT</li> <li>Rearview Camera Connection Error</li> </ul>   | <ul style="list-style-type: none"> <li>Camera control unit power supply and ground circuits malfunction is detected.</li> <li>Malfunction is detected in AV communication signal between AV control unit and camera control unit.</li> </ul>  | Camera control unit power supply and ground circuits.  |
| <ul style="list-style-type: none"> <li>AV COMM CIRCUIT</li> <li>iPod Connection Error</li> </ul>  | <ul style="list-style-type: none"> <li>iPod adapter power supply and ground circuits malfunction is detected.</li> <li>Malfunction is detected in AV communication circuits between camera control unit and iPod adapter.</li> <li>Malfunction is detected in AV communication signal between AV control unit and iPod adapter.</li> </ul>                    | <ul style="list-style-type: none"> <li>iPod adapter power supply and ground circuits.</li> <li>AV communication circuits between AV control unit and iPod adapter.</li> </ul>                |
| <ul style="list-style-type: none"> <li>AV COMM CIRCUIT</li> <li>Rearview Camera Connection Error</li> <li>iPod Connection Error</li> </ul>                                    | Malfunction is detected in AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.  | AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.  |
| <ul style="list-style-type: none"> <li>AV COMM CIRCUIT</li> <li>Switches Connection Error</li> <li>Rearview Camera Connection Error</li> <li>iPod Connection Error</li> </ul> | Malfunction is detected in AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.  | AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.  |

### Vehicle CAN Diagnosis

- CAN communication status and error counter is displayed.
- The error counter displays "OK" if any malfunction was not detected in the past and displays "0" if a malfunction is detected. It increases by 1 if the condition is normal at the next ignition switch ON cycle. The upper limit of the counter is 39.
- The error counter is erased if "Reset" is pressed.



# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

| Items        | Display (Current) | Malfunction counter (Past) |
|--------------|-------------------|----------------------------|
| Tx (HVAC)    | OK / UNKWN        | OK / 0 – 39                |
| Rx (ECM)     | OK / UNKWN        | OK / 0 – 39                |
| Rx (Cluster) | OK / UNKWN        | OK / 0 – 39                |
| Rx (BCM)     | OK / UNKWN        | OK / 0 – 39                |
| Rx (HVAC)    | OK / UNKWN        | OK / 0 – 39                |
| Rx (USM)     | OK / UNKWN        | OK / 0 – 39                |

## AV COMM Diagnosis

- Displays the communication status between AV control unit (master unit) and each unit.
- The error counter displays “OK” if any malfunction was not detected in the past and displays “0” if a malfunction is detected. It increases by 1 if the condition is normal at the next ignition switch ON cycle. The upper limit of the counter is 39.
- The error counter is erased if “Reset” is pressed.

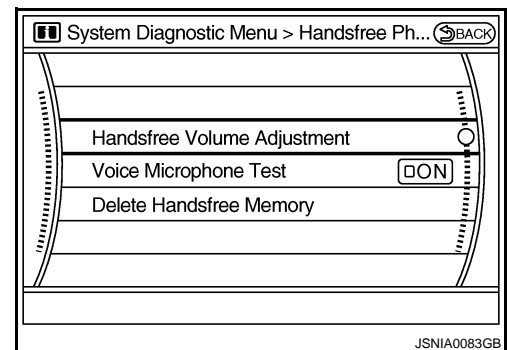
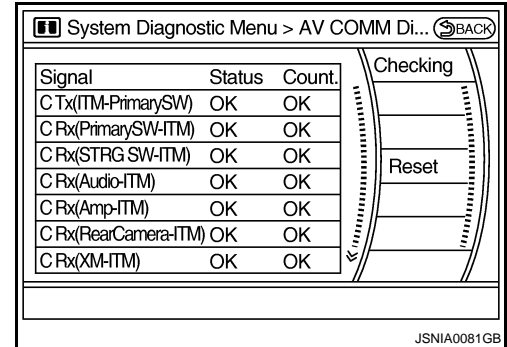
| Items                | Status (Current) | Counter (Past) |
|----------------------|------------------|----------------|
| C Tx(ITM-PrimarySW)  | OK / UNKWN       | OK / 0 – 39    |
| C Rx(PrimarySW-ITM)  | OK / UNKWN       | OK / 0 – 39    |
| C Rx(STRG SW-ITM)    | OK / UNKWN       | OK / 0 – 39    |
| C Rx(Audio-ITM)      | OK / UNKWN       | OK / 0 – 39    |
| C Rx(Amp-ITM)        | OK / UNKWN       | OK / 0 – 39    |
| C Rx(RearCamera-ITM) | OK / UNKWN       | OK / 0 – 39    |
| C Rx(XM-ITM)         | OK / UNKWN       | OK / 0 – 39    |
| C Rx(iPod-ITM)       | OK / UNKWN       | OK / 0 – 39    |
| C Rx(Amp-Audio)      | —                | —              |
| C Rx(iPod-Audio)     | OK / UNKWN       | OK / 0 – 39    |
| C Tx(Audio-ITM)      | OK / UNKWN       | OK / 0 – 39    |

### NOTE:

- Any units with “—” displayed have no history of vehicle connection.
- “Audio” and “Amp” indicate the same status because “Amp” indicates the status of the amplifier integrated in the AV control unit.
- “STRG SW”, “Amp”, and “XM” indicate the same status as “Audio”.

## Hands-Free Phone

The hands-free phone reception volume adjustment, microphone and speaker test, and memory erase functions are also available.



## Camera Cont.

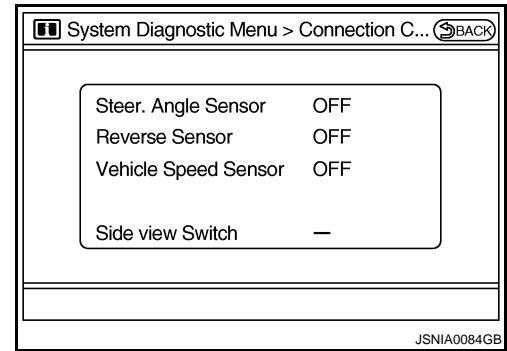
The two functions of “Connection Confirmation” and “Adjust Offset of Rear View Camera” are available.  
CONNECTION CONFIRMATION

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

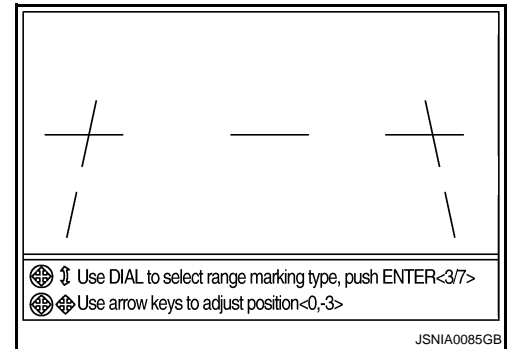
The steering angle sensor, reverse signal and vehicle speed sensor can be inspected.



| Diagnosis item       | Display | Vehicle status  |
|----------------------|---------|---|
| Steer. Angle Sensor  | ON      | When steering the vehicle with ignition switch ON (remains ON until connection mode is stopped when it is turned ON)                                    |
|                      | OFF     | <ul style="list-style-type: none"> <li>Ignition switch at ACC</li> <li>No steering with ignition switch ON</li> </ul>                                   |
|                      | —       | Malfunction detected in camera connection recognition signal  |
| Reverse Sensor       | ON      | Selector lever is in "R" with ignition switch ON.   |
|                      | OFF     | <ul style="list-style-type: none"> <li>Ignition switch at ACC</li> <li>Selector lever is in position other than "R" with ignition switch ON.</li> </ul> |
|                      | —       | Malfunction detected in camera-connection recognition signal  |
| Vehicle Speed Sensor | ON      | Vehicle speed is more than 0 km/h (0 MPH) with ignition switch ON   |
|                      | OFF     | <ul style="list-style-type: none"> <li>Ignition switch at ACC</li> <li>Vehicle speed is 0 km/h (0 MPH) with ignition switch ON</li> </ul>               |
|                      | —       | Malfunction detected in camera connection recognition signal  |
| Side view Switch     | —       | Not used  |

## ADJUST OFFSET OF REAR VIEW CAMERA

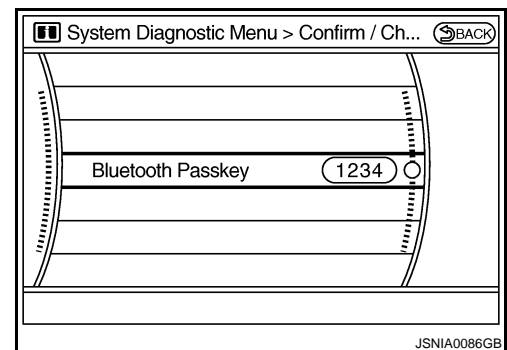
Use this mode to adjust the guide line display position of the rear view monitor if necessary after removing the rear view monitor camera.



## Bluetooth

### Passkey confirmation/change

- The passkey of Bluetooth can be confirmed and changed.
- The passkey can be changed by four digits within 0 to 9.



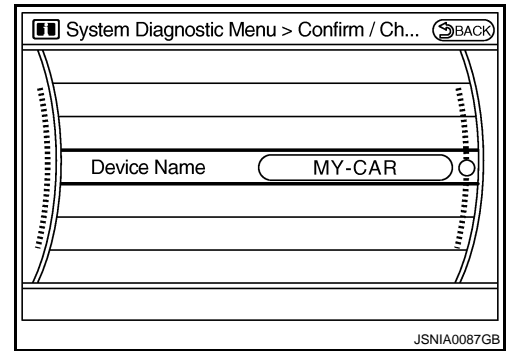
Device name check/change

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

## [BOSE AUDIO WITH NAVIGATION]

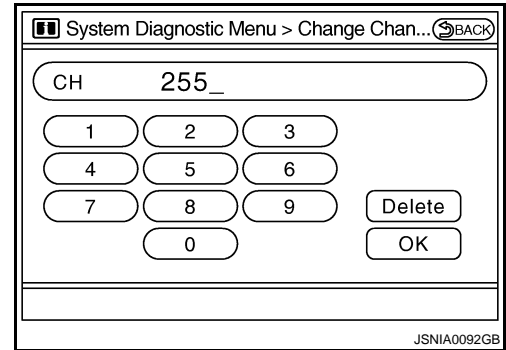
### < SYSTEM DESCRIPTION >

- The device name of Bluetooth can be confirmed and changed.
- The device name can be changed by sixteen digits within A to Z (small character can be used) and - (hyphen).

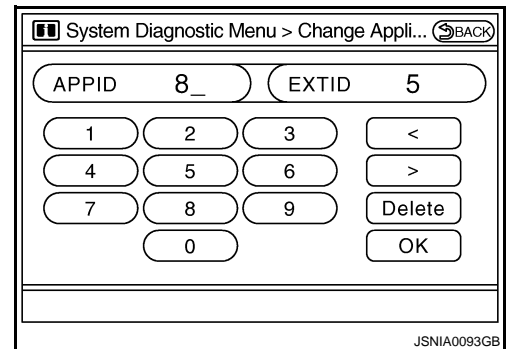


### SAT

- Change Channel
- Any necessary channels required to receive traffic information from the satellite radio system can be set.

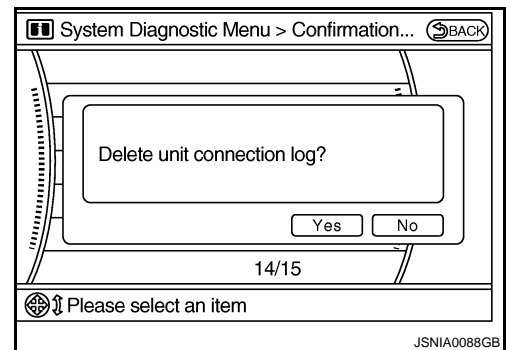


- Change Application ID
- Any application ID's required to receive traffic information from the satellite radio system can be set.



### Delete Unit Connection Log

Deletes any unit connection records and error records from the AV control unit memory. (Clear the records of the unit that has been removed.)



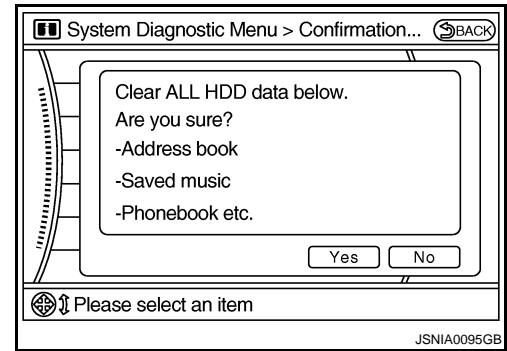
### Initialize Settings

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

Deletes data stored in HDD.



## CONSULT - III Function (MULTI AV)

INFOID:000000004238711

### CONSULT-III FUNCTIONS

CONSULT-III performs the following functions via the communication with the AV control unit.

| Diagnosis mode         | Description   |
|------------------------|---|
| Ecu Identification     | The part number of AV control unit can be checked.  |
| Self Diagnostic Result | Performs a diagnosis on the AV control unit and a connection diagnosis for the communication circuit of the Multi AV system, and displays the current and past malfunctions collectively. |
| Data Monitor           | The diagnosis of vehicle signal that is input to the AV control unit can be performed.  |

### AV COMMUNICATION

When "AV communication" of "CAN Diag Support Monitor" is selected, the following function will be performed.

|                  |             |   |
|------------------|-------------|---|
| AV communication | AV&NAVI C/U | Displays the communication status from AV control unit to each unit as well as the error counter. |
|                  | AUDIO       | Displays the AV control unit communication status and the error counter.                          |

### ECU IDENTIFICATION

The part number of AV control unit is displayed.

### SELF DIAGNOSIS RESULT

- In CONSULT-III self-diagnosis, self-diagnosis results and error history are displayed collectively.
- The current malfunction indicates "CRNT". The past malfunction indicates "PAST".
- The timing is displayed as "0" if any of the error codes [U1000], [U1010], [U1300] and [U1310] is detected. The counter increases by 1 if the condition is normal at the next ignition switch ON cycle.

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AV

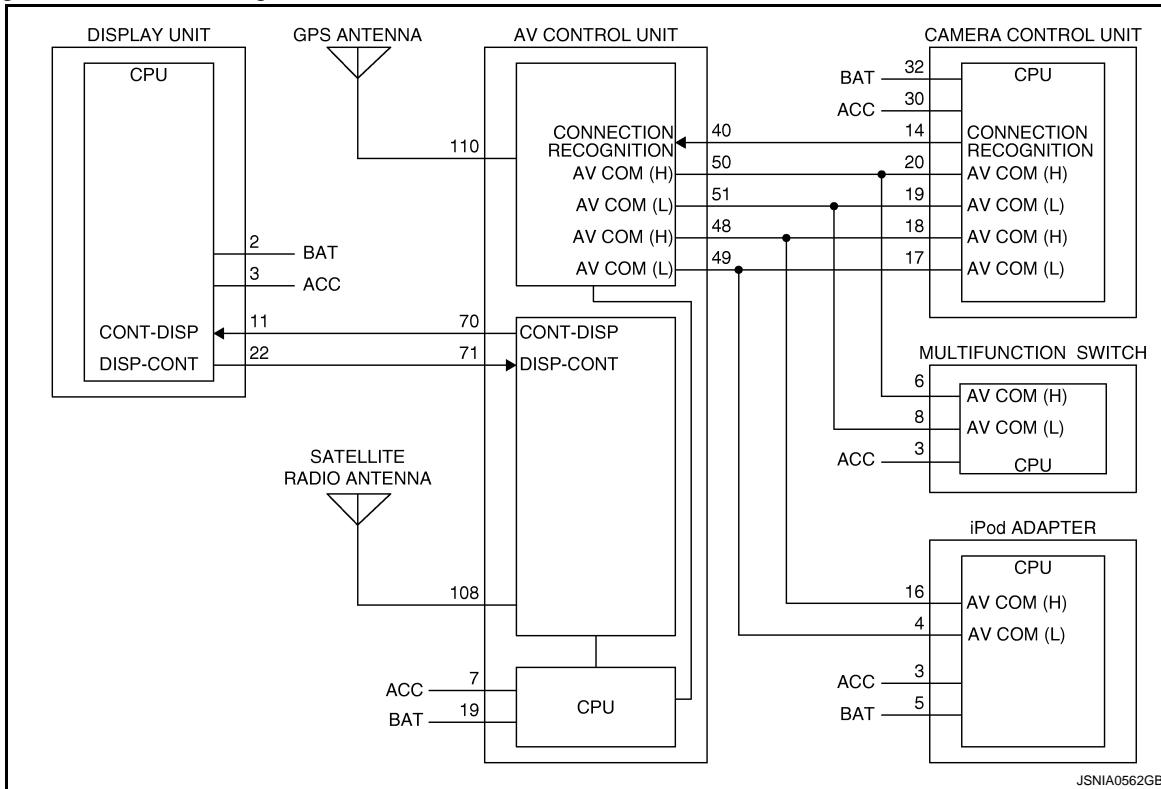
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# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BOSE AUDIO WITH NAVIGATION]

< SYSTEM DESCRIPTION >

Self-diagnosis Detection Range



Self-diagnosis Results Display Item

| Error item                    | Description   | Possible malfunction factor/Action to take   |
|-------------------------------|---|--|
| CAN COMM CIRCUIT[U1000]       | CAN communication malfunction is detected.                          | Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results.<br>Refer to <a href="#">AV-387, "Diagnosis Procedure"</a> . |
| CONTROL UNIT (CAN) [U1010]    | CAN initial diagnosis malfunction is detected.                      | Replace the AV control unit.   |
| CONTROL UNIT (AV) [U1310]     | AV communication circuit initial diagnosis malfunction is detected. |  |
| Cont Unit FLASH-ROM [U1200]   | AV control unit malfunction is detected.                            |  |
| GYRO NO CONN [U1201]          |   |  |
| CAN CONT [U1216]              |   |  |
| BLUETOOTH MODULE CONN [U1217] |   |  |
| HDD-CONN [U1218]              |   |  |
| HDD-READ [U1219]              |   |  |
| XM SERIAL COMM [U1220]        |   |  |
| HDD-WRITE [U121A]             |   |  |
| HDD-COMM [U121B]              |   |  |
| HDD-ACCESS [U121C]            |   |  |
| DSP CONN [U121D]              |   |  |
| DSP COMM [U121E]              |   |  |
| INTERNAL COMM [U121F]         |   | AV control unit power supply and ground circuits.  |



# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

| Error item  | Description  | Possible malfunction factor/Action to take  |
|---|--|---|
| GPS COMM [U1204]  | GPS malfunction is detected.   | An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs.<br>Replace the AV control unit if the malfunction occurs constantly. |
| GPS ROM [U1205]   |  |   |
| GPS RAM [U1206]   |  |   |
| GPS RTC [U1207]   |  |   |
| FRONT DISP CONN [U1243]   | <ul style="list-style-type: none"> <li>• Display unit power supply and ground circuits malfunction is detected.</li> <li>• Malfunction is detected in communication circuits between AV control unit and display unit.</li> <li>• Malfunction is detected in communication signal between AV control unit and display unit.</li> </ul>                               | <ul style="list-style-type: none"> <li>• Display unit power supply and ground circuits.</li> <li>• Communication circuits between AV control unit and AV display unit.</li> </ul>                     |
| GPS ANTENNA CONN [U1244]  | GPS antenna connection malfunction is detected.  | GPS antenna.  |
| CAMERA CONT. CONN [U1250]   | Malfunction is detected in camera connection recognition circuit between AV control unit and camera control unit.  | Camera-connection recognition circuit between AV control unit and camera control unit.  |
| XM ANTENNA CONN [U1258]   | Poor connection is detected in satellite radio antenna.  | <ul style="list-style-type: none"> <li>• Satellite radio antenna feeder.</li> <li>• Satellite radio antenna.</li> </ul>   |
| <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• INTERNAL COMM [U121F]</li> </ul>  | <ul style="list-style-type: none"> <li>• AV control unit power supply and ground circuits.</li> <li>• AV control unit malfunction is detected.</li> </ul>  | AV control unit power supply and ground circuits.   |
| <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• SWITCH CONN [U1240]</li> </ul>  | <ul style="list-style-type: none"> <li>• Multifunction switch power supply and ground circuits malfunction is detected.</li> <li>• Malfunction is detected in AV communication circuits between AV control unit and multifunction switch.</li> <li>• Malfunction is detected in AV communication signal between AV control unit and multifunction switch.</li> </ul> | <ul style="list-style-type: none"> <li>• Multifunction switch power supply and ground circuits.</li> <li>• AV communication circuit between AV control unit and multifunction switch.</li> </ul>      |
| <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• REAR CAMERA LAN CONN [U1252]</li> </ul>   | <ul style="list-style-type: none"> <li>• Camera control unit power supply and ground circuits malfunction is detected.</li> <li>• Malfunction is detected in AV communication signal between AV control unit and camera control unit.</li> </ul>   | Camera control unit power supply and ground circuits.   |
| <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• IPOD CONN [U1254]</li> </ul>  | <ul style="list-style-type: none"> <li>• iPod adapter power supply and ground circuits malfunction is detected</li> <li>• Malfunction is detected in AV communication circuits between camera control unit and iPod adapter</li> <li>• Malfunction is detected in AV communication signal between AV control unit and iPod adapter</li> </ul>                        | <ul style="list-style-type: none"> <li>• iPod adapter power supply and ground circuits</li> <li>• AV communication circuits between camera control unit and iPod adapter</li> </ul>                   |
| <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• REAR CAMERA LAN CONN [U1252]</li> <li>• IPOD CONN [U1254]</li> </ul>                                | Malfunction is detected in AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.   | AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.   |
| <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• SWITCH CONN [U1240]</li> <li>• REAR CAMERA LAN CONN [U1252]</li> <li>• IPOD CONN [U1254]</li> </ul> | Malfunction is detected in AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.   | AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.   |

## DATA MONITOR

### ALL SIGNALS

- Displays the status of the following vehicle signals inputted into the AV control unit.
- For each signal, actual signal can be compared with the condition recognized on the system.

## DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

| Display Item | Display | Vehicle status   | Remarks   |   |
|--------------|---------|--|---|---|
| VHCL SPD SIG | On      | Vehicle speed >0 km/h (0 MPH)  | Changes in indication may be delayed. This is normal. |   |
|              | Off     | Vehicle speed =0 km/h (0 MPH)  |   |   |
| PKB SIG      | On      | Parking brake is applied.  |   |   |
|              | Off     | Parking brake is released.   |   |   |
| ILLUM SIG    | On      | Block the light beam from the auto light optical sensor when the light SW is ON. | —   |   |
|              | Off     | Expose the auto light optical sensor to light when the light SW is OFF or ON.    |   |   |
| IGN SIG      | On      | Ignition switch ON   |   |   |
|              | Off     | Ignition switch in ACC position  |   |   |
| REV SIG      | On      | Selector lever in R position   |   | Changes in indication may be delayed. This is normal. |
|              | Off     | Selector lever in any position other than R                                      |   |   |

### SELECTION FROM MENU

Allows the technician to select which vehicle signals should be displayed and displays the status of the selected vehicle signals.

| Item to be selected | Description                                 |
|---------------------|---|
| VHCL SPD SIG        | The same as when "ALL SIGNALS" is selected. |
| PKB SIG             |   |
| ILLUM SIG           |   |
| IGN SIG             |   |
| REV SIG             |   |

# DTC/CIRCUIT DIAGNOSIS

## U1000 CAN COMM CIRCUIT

### Description

INFOID:0000000004238712

CAN (Controller Area Network) is a serial communication line for real-time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independently). In CAN communication, control units are connected with 2 communication lines (CAN-H, CAN-L) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN Communication Signal Chart. Refer to [LAN-28, "CAN Communication Signal Chart"](#).

### DTC Logic

INFOID:0000000004238713

### DTC DETECTION LOGIC

| DTC   | Display contents of CONSULT-III | Diagnostic item is detected when ...   | Probable malfunction location |
|-------|---------------------------------|--|-------------------------------|
| U1000 | CAN COMM CIRCUIT                | AV control unit is not transmitting or receiving CAN communication signal for 2 seconds or more. | CAN communication system.     |

### Diagnosis Procedure

INFOID:0000000004238714

#### 1. PERFORM SELF-DIAGNOSTIC

- Turn ignition switch ON and wait for 2 seconds or more.
- Check "Self Diagnostic Result" of "MULTI AV".

Is "CAN COMM CIRCUIT" displayed?

- YES >> Refer to "LAN system". Refer to [LAN-19, "Trouble Diagnosis Flow Chart"](#).
- NO >> Refer to GI section. Refer to [GI-41, "Intermittent Incident"](#).

AV

# U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1010 CONTROL UNIT (CAN)

### Description

INFOID:000000004238715

Initial diagnosis of AV control unit.

### DTC Logic

INFOID:000000004238716

### DTC DETECTION LOGIC

| DTC   | Display contents of CONSULT-III | Diagnostic item is detected when ...           | Probable malfunction location |
|-------|---------------------------------|--|-------------------------------|
| U1010 | CONTROL UNIT (CAN)              | CAN initial diagnosis malfunction is detected. | AV control unit.              |

### Diagnosis Procedure

INFOID:000000004238717

#### 1. REPLACE AV CONTROL UNIT

When DTC U1010 is detected, replace AV control unit.

>> INSPECTION END

# U1310 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1310 AV CONTROL UNIT

### Description

INFOID:000000004238718

Replace the AV control unit if this DTC is displayed. Refer to [AV-575, "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"><li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li><li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li><li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li><li>It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li><li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li><li>It inputs the illumination signals that are required for the display dimming control.</li><li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li><li>BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li><li>Update of map data is performed with the CONSULT-III and the applicable cable.</li></ul> |

### DTC Logic

INFOID:000000004238719

| DTC   | Display contents of CONSULT-III | DTC Detection Condition   | Action to take           |
|-------|---------------------------------|---|--------------------------|
| U1310 | CONTROL UNIT (AV) [U1310]       | An initial diagnosis error is detected in AV communication circuit. | Replace AV control unit. |

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# U1200 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1200 AV CONTROL UNIT

### Description

INFOID:000000004238720

Replace the AV control unit if this DTC is displayed. Refer to [AV-575, "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"><li>• Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li><li>• It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li><li>• The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li><li>• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li><li>• It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li><li>• It inputs the illumination signals that are required for the display dimming control.</li><li>• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li><li>• BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li><li>• Update of map data is performed with the CONSULT-III and the applicable cable.</li></ul> |

### DTC Logic

INFOID:000000004238721

| DTC   | Display contents of CONSULT-III | DTC Detection Condition   | Action to take           |
|-------|---------------------------------|---|--------------------------|
| U1200 | Cont Unit FLASH-ROM [U1200]     | An internal malfunction is detected in AV control unit (FLASH-ROM). | Replace AV control unit. |

# U1201 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1201 AV CONTROL UNIT

### Description

INFOID:000000004238722

Replace the AV control unit if this DTC is displayed. Refer to [AV-575, "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> </ul> |

### DTC Logic

INFOID:000000004238723

| DTC   | Display contents of CONSULT-III | DTC Detection Condition  | Action to take           |
|-------|---------------------------------|--|--------------------------|
| U1201 | GYRO NO CONN [U1201]            | Internal malfunction of AV control unit (gyrocompass disconnection) is detected. | Replace AV control unit. |

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# U1216 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1216 AV CONTROL UNIT

### Description

INFOID:000000004238724

Replace the AV control unit if this DTC is displayed. Refer to [AV-575, "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"><li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li><li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li><li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li><li>It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li><li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li><li>It inputs the illumination signals that are required for the display dimming control.</li><li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li><li>BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li><li>Update of map data is performed with the CONSULT-III and the applicable cable.</li></ul> |

### DTC Logic

INFOID:000000004238725

| DTC   | Display contents of CONSULT-III | DTC Detection Condition   | Action to take           |
|-------|---------------------------------|---|--------------------------|
| U1216 | CAN CONT [U1216]                | Internal malfunction of AV control unit (CAN controller) is detected. | Replace AV control unit. |



# U1217 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1217 AV CONTROL UNIT

### Description

INFOID:000000004238726

Replace the AV control unit if this DTC is displayed. Refer to [AV-575, "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> </ul> |

### DTC Logic

INFOID:000000004238727

| DTC   | Display contents of CONSULT-III | DTC Detection Condition  | Action to take           |
|-------|---------------------------------|--|--------------------------|
| U1217 | BLUETOOTH MODULE CONN [U1217]   | Internal malfunction of AV control unit (Bluetooth module connection malfunction) is detected. | Replace AV control unit. |

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# U1218 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1218 AV CONTROL UNIT

### Description

INFOID:000000004238728

Replace the AV control unit if this DTC is displayed. Refer to [AV-575, "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"><li>• Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li><li>• It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li><li>• The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li><li>• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li><li>• It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li><li>• It inputs the illumination signals that are required for the display dimming control.</li><li>• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li><li>• BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li><li>• Update of map data is performed with the CONSULT-III and the applicable cable.</li></ul> |

### DTC Logic

INFOID:000000004238729

| DTC   | Display contents of CONSULT-III | DTC Detection Condition   | Action to take           |
|-------|---------------------------------|---|--------------------------|
| U1218 | HDD-CONN [U1218]                | Internal malfunction of AV control unit (HDD connection malfunction) is detected. | Replace AV control unit. |

# U1219 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1219 AV CONTROL UNIT

### Description

INFOID:000000004238730

Replace the AV control unit if this DTC is displayed. Refer to [AV-575, "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> </ul> |

### DTC Logic

INFOID:000000004238731

| DTC   | Display contents of CONSULT-III | DTC Detection Condition   | Action to take           |
|-------|---------------------------------|---|--------------------------|
| U1219 | HDD-READ [U1219]                | Internal malfunction of AV control unit (HDD read malfunction) is detected. | Replace AV control unit. |

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# U1220 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1220 AV CONTROL UNIT

### Description

INFOID:000000004238732

Replace the AV control unit if this DTC is displayed. Refer to [AV-575, "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"><li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li><li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li><li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li><li>It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li><li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li><li>It inputs the illumination signals that are required for the display dimming control.</li><li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li><li>BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li><li>Update of map data is performed with the CONSULT-III and the applicable cable.</li></ul> |

### DTC Logic

INFOID:000000004238733

| DTC   | Display contents of CONSULT-III | DTC Detection Condition  | Action to take           |
|-------|---------------------------------|--|--------------------------|
| U1220 | XM SERIAL COMM [U1220]          | Internal malfunction of AV control unit (satellite radio tuner communication error) is detected. | Replace AV control unit. |

# U121A AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U121A AV CONTROL UNIT

### Description

INFOID:000000004238734

Replace the AV control unit if this DTC is displayed. Refer to [AV-575, "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> </ul> |

### DTC Logic

INFOID:000000004238735

| DTC   | Display contents of CONSULT-III | DTC Detection Condition  | Action to take           |
|-------|---------------------------------|--|--------------------------|
| U121A | HDD-WRITE [U121A]               | Internal malfunction of AV control unit (HDD write malfunction) is detected. | Replace AV control unit. |

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# U121B AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U121B AV CONTROL UNIT

### Description

INFOID:000000004238736

Replace the AV control unit if this DTC is displayed. Refer to [AV-575, "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"><li>• Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li><li>• It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li><li>• The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li><li>• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li><li>• It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li><li>• It inputs the illumination signals that are required for the display dimming control.</li><li>• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li><li>• BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li><li>• Update of map data is performed with the CONSULT-III and the applicable cable.</li></ul> |

### DTC Logic

INFOID:000000004238737

| DTC   | Display contents of CONSULT-III | DTC Detection Condition  | Action to take           |
|-------|---------------------------------|--|--------------------------|
| U121B | HDD-COMM [U121B]                | Internal malfunction of AV control unit (HDD communication error) is detected. | Replace AV control unit. |

# U121C AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U121C AV CONTROL UNIT

### Description

INFOID:000000004238738

Replace the AV control unit if this DTC is displayed. Refer to [AV-575, "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> </ul> |

### DTC Logic

INFOID:000000004238739

| DTC   | Display contents of CONSULT-III | DTC Detection Condition   | Action to take           |
|-------|---------------------------------|---|--------------------------|
| U121C | HDD-ACCESS [U121C]              | Internal malfunction of AV control unit (HDD access error) is detected. | Replace AV control unit. |

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# U121D AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U121D AV CONTROL UNIT

### Description

INFOID:000000004238740

Replace the AV control unit if this DTC is displayed. Refer to [AV-575, "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"><li>• Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li><li>• It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li><li>• The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li><li>• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li><li>• It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li><li>• It inputs the illumination signals that are required for the display dimming control.</li><li>• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li><li>• BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li><li>• Update of map data is performed with the CONSULT-III and the applicable cable.</li></ul> |

### DTC Logic

INFOID:000000004238741

| DTC   | Display contents of CONSULT-III | DTC Detection Condition   | Action to take           |
|-------|---------------------------------|---|--------------------------|
| U121D | DSP CONN [U121D]                | Internal malfunction of AV control unit (DSP connection error) is detected. | Replace AV control unit. |



# U121E AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U121E AV CONTROL UNIT

### Description

INFOID:000000004238742

Replace the AV control unit if this DTC is displayed. Refer to [AV-575, "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> </ul> |

### DTC Logic

INFOID:000000004238743

| DTC   | Display contents of CONSULT-III | DTC Detection Condition  | Action to take           |
|-------|---------------------------------|--|--------------------------|
| U121E | DSP COMM [U121E]                | Internal malfunction of AV control unit (DSP communication error) is detected. | Replace AV control unit. |

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# U121F AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U121F AV CONTROL UNIT

### Description

INFOID:000000004238744

Replace the AV control unit if this DTC is displayed. Refer to [AV-575. "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"><li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li><li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li><li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li><li>It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li><li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li><li>It inputs the illumination signals that are required for the display dimming control.</li><li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li><li>BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li><li>Update of map data is performed with the CONSULT-III and the applicable cable.</li></ul> |

### DTC Logic

INFOID:000000004238745

| DTC   | Display contents of CONSULT-III | DTC Detection Condition   | Action to take                                   |
|-------|---------------------------------|---|--|
| U121F | INTERNAL COMM [U121F]           | Internal malfunction of AV control unit (internal communication error) is detected. | AV control unit power supply and ground circuit. |

### Diagnosis Procedure

INFOID:000000004238746

#### 1. CHECK AV CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check AV control unit power supply and ground circuit. Refer to [AV-413. "AV CONTROL UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Repair or replace malfunctioning parts.

U1204 GPS

Description

INFOID:000000004238747

An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs. Replace the AV control unit if the malfunction occurs constantly. Refer to [AV-575](#), "[Exploded View](#)".

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> </ul> |

DTC Logic

INFOID:000000004238748

| DTC   | Display contents of CONSULT-III | DTC Detection Condition  | Action to take   |
|-------|---------------------------------|--|--|
| U1204 | GPS COMM [U1204]                | Internal malfunction of AV control unit (GPS malfunction) is detected. | An intermittent error caused by strong radio interference may be detected unless a symptom (GPS reception error, etc.) occurs. Replace the AV control unit if the malfunction occurs constantly. |

Diagnosis Procedure

INFOID:000000004238749

1. PERFORM THE SELF-DIAGNOSIS

- Delete the self-diagnosis results. Turn ignition switch OFF.
- Turn ignition switch ON. Perform the self-diagnosis again.
- Check that the DTC is detected again.

Is any DTC detected?

- YES >> Replace AV control unit.
- NO >> The intermittent malfunction caused by strong radio interference can be detected.

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U1205 GPS

Description

INFOID:000000004238750

An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs. Replace the AV control unit if the malfunction occurs constantly. Refer to [AV-575](#), "[Exploded View](#)".

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> </ul> |

DTC Logic

INFOID:000000004238751

| DTC   | Display contents of CONSULT-III | DTC Detection Condition  | Action to take   |
|-------|---------------------------------|--|--|
| U1205 | GPS ROM [U1205]                 | Internal malfunction of AV control unit (GPS malfunction) is detected. | An intermittent error caused by strong radio interference may be detected unless a symptom (GPS reception error, etc.) occurs. Replace the AV control unit if the malfunction occurs constantly. |

Diagnosis Procedure

INFOID:000000004238752

1. PERFORM THE SELF-DIAGNOSIS

- Delete the self-diagnosis results. Turn ignition switch OFF.
- Turn ignition switch ON. Perform the self-diagnosis again.
- Check that the DTC is detected again.

Is any DTC detected?

- YES >> Replace AV control unit.
- NO >> The intermittent malfunction caused by strong radio interference can be detected.

U1206 GPS

Description

INFOID:000000004238753

An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs. Replace the AV control unit if the malfunction occurs constantly. Refer to [AV-575](#), "[Exploded View](#)".

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> </ul> |

DTC Logic

INFOID:000000004238754

| DTC   | Display contents of CONSULT-III | DTC Detection Condition  | Action to take   |
|-------|---------------------------------|--|--|
| U1206 | GPS RAM [U1206]                 | Internal malfunction of AV control unit (GPS malfunction) is detected. | An intermittent error caused by strong radio interference may be detected unless a symptom (GPS reception error, etc.) occurs. Replace the AV control unit if the malfunction occurs constantly. |

Diagnosis Procedure

INFOID:000000004238755

1. PERFORM THE SELF-DIAGNOSIS

1. Delete the self-diagnosis results. Turn ignition switch OFF.
2. Turn ignition switch ON. Perform the self-diagnosis again.
3. Check that the DTC is detected again.

Is any DTC detected?

- YES >> Replace AV control unit.
- NO >> The intermittent malfunction caused by strong radio interference can be detected.



**U1207 GPS**

**Description**

INFOID:000000004238756

An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs. Replace the AV control unit if the malfunction occurs constantly. Refer to [AV-575, "Exploded View"](#).

| Part name       | Description   |
|-----------------|---|
| AV CONTROL UNIT | <ul style="list-style-type: none"> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>BOSE amp. ON signal, sound signal and mode change signal transmitted to BOSE amp.</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> </ul> |

**DTC Logic**

INFOID:000000004238757

| DTC   | Display contents of CONSULT-III | DTC Detection Condition  | Action to take   |
|-------|---------------------------------|--|--|
| U1207 | GPS RTC [U1207]                 | Internal malfunction of AV control unit (GPS malfunction) is detected. | An intermittent error caused by strong radio interference may be detected unless a symptom (GPS reception error, etc.) occurs. Replace the AV control unit if the malfunction occurs constantly. |

**Diagnosis Procedure**

INFOID:000000004238758

**1. PERFORM THE SELF-DIAGNOSIS**

- Delete the self-diagnosis results. Turn ignition switch OFF.
- Turn ignition switch ON. Perform the self-diagnosis again.
- Check that the DTC is detected again.

Is any DTC detected?

- YES >> Replace AV control unit.
- NO >> The intermittent malfunction caused by strong radio interference can be detected.

# U1243 DISPLAY UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1243 DISPLAY UNIT

### Description

INFOID:000000004238759

| Part name    | Description   |
|--------------|---|
| DISPLAY UNIT | <ul style="list-style-type: none"> <li>• Display image is controlled by the serial communication from AV control unit.</li> <li>• RGB image signal is input from AV control unit (RGB, RGB area and RGB synchronizing). Auxiliary image signal is input from the auxiliary input jack. Camera image signal is input from the camera control unit.</li> <li>• Synchronize signal (HP, VP) is output to AV control unit.</li> <li>• Touch panel function can be operated for each system by touching a display directly.</li> </ul> |

### DTC Logic

INFOID:000000004238760

| DTC   | Display contents of CONSULT-III | DTC Detection Condition   | Possible causes  |
|-------|---------------------------------|---|--|
| U1243 | FRONT DISP CONN [U1243]         | <ul style="list-style-type: none"> <li>• Display unit power supply and ground circuit malfunction is detected</li> <li>• Malfunction is detected in communication circuit between AV control unit and display unit</li> <li>• Malfunction is detected in communication signal between AV control unit and display unit</li> </ul> | <ul style="list-style-type: none"> <li>• Display unit power supply and ground circuit.</li> <li>• Communication circuit between AV control unit and display unit.</li> </ul> |

### Diagnosis Procedure

INFOID:000000004238761

#### 1. CHECK DISPLAY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check display unit power supply and ground circuit. Refer to [AV-413, "DISPLAY UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

#### 2. CHECK CONTINUITY COMMUNICATION CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |           | AV control unit |           | Continuity |
|--------------|-----------|-----------------|-----------|------------|
| Connector    | Terminals | Connector       | Terminals |            |
| M75          | 11        | M88             | 70        | Existed    |
|              | 22        |                 | 71        |            |

4. Check continuity between display unit harness connector and ground.

| Display unit |           | Ground | Continuity  |
|--------------|-----------|--------|-------------|
| Connector    | Terminals |        |             |
| M75          | 11        |        | Not existed |
|              | 22        |        |             |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

#### 3. CHECK COMMUNICATION SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.

# U1243 DISPLAY UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Condition                          | Reference value |
|--------------|----------|--------|------------------------------------|-----------------|
| Display unit |          |        |                                    |                 |
| Connector    | Terminal |        |                                    |                 |
| M75          | 11       | Ground | When adjusting display brightness. |                 |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

## 4. CHECK COMMUNICATION SIGNAL

Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Condition                          | Reference value |
|--------------|----------|--------|------------------------------------|-----------------|
| Display unit |          |        |                                    |                 |
| Connector    | Terminal |        |                                    |                 |
| M75          | 22       | Ground | When adjusting display brightness. |                 |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace display unit.



# U1244 GPS ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1244 GPS ANTENNA

### Description

INFOID:000000004238762

| Part name   | Description  |
|-------------|--|
| GPS ANTENNA | GPS signal is received and transmitted to AV control unit. |

### DTC Logic

INFOID:000000004238763

| DTC   | Display contents of CONSULT-III | DTC Detection Condition                         | Possible causes            |
|-------|---------------------------------|---|----------------------------|
| U1244 | GPS ANTENNA CONN [U1244]        | GPS antenna connection malfunction is detected. | GPS antenna disconnection. |

### Diagnosis Procedure

INFOID:000000004238764

#### 1. GPS ANTENNA CHECK

Visually check GPS antenna and antenna feeder.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

#### 2. CHECK AV CONTROL UNIT VOLTAGE

1. Disconnect GPS antenna connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit and ground.

| (+)             | (-)    | Voltage (Approx.) |
|-----------------|--------|-------------------|
| AV control unit |        |                   |
| Terminal        |        |                   |
| 110             | Ground | 5 V               |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace AV control unit.

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AV

# U1250 CAMERA CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1250 CAMERA CONTROL UNIT

### Description

INFOID:000000004238768

| Part name           | Description   |
|---------------------|---|
| CAMERA CONTROL UNIT | <ul style="list-style-type: none"><li>• Camera image signal is input from rear view camera, and camera image is indicated on the display.</li><li>• Power (camera ON signal) is transmitted to rear view camera.</li><li>• Controlled by AV communication transmitted from AV control unit.</li><li>• AV control unit recognizes the presence of camera system with camera connection recognition signal.</li></ul> |

### DTC Logic

INFOID:000000004238769

| DTC   | Display contents of CONSULT-III | DTC Detection Condition  | Possible causes                               |
|-------|---------------------------------|--|---|
| U1250 | CAMERA CONT. CONN [U1250]       | Malfunction is detected in Camera-connection recognition signal circuit. | Camera-connection recognition signal circuit. |

### Diagnosis Procedure

INFOID:000000004238770

#### 1. CHECK CAMERA-CONNECTION RECOGNITION SIGNAL CIRCUIT

1. Disconnect AV control unit connector and camera control unit connector.
2. Check continuity between AV control unit harness connector and camera control unit harness connector.

| AV control unit |          | Camera control unit |          | Continuity |
|-----------------|----------|---------------------|----------|------------|
| Connector       | Terminal | Connector           | Terminal |            |
| M87             | 40       | B241                | 14       | Existed    |

#### Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair harness or connector.

#### 2. CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector and ground.

| (+)             |          | (-)    | Voltage (Approx.) |
|-----------------|----------|--------|-------------------|
| AV control unit |          |        |                   |
| Connector       | Terminal |        |                   |
| M87             | 40       | Ground | 5 V               |

#### Is the inspection result normal?

- YES >> Replace camera control unit.  
NO >> Replace AV control unit.

# U1258 SATELLITE RADIO ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1258 SATELLITE RADIO ANTENNA

### Description

INFOID:000000004238771

| Part name               | Description  |
|-------------------------|--|
| SATELLITE RADIO ANTENNA | Satellite radio signal is received and transmitted to AV control unit. |

### DTC Logic

INFOID:000000004238772

| DTC   | Display contents of CONSULT-III | DTC Detection Condition                                     | Possible causes                        |
|-------|---------------------------------|---|--|
| U1258 | XM ANTENNA CONN [U1258]         | Satellite radio antenna connection malfunction is detected. | Satellite radio antenna disconnection. |

### Diagnosis Procedure

INFOID:000000004238773

#### 1. SATELLITE RADIO ANTENNA CHECK

Visually check satellite radio antenna and antenna feeder.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

#### 2. CHECK AV CONTROL UNIT VOLTAGE

1. Disconnect satellite radio antenna connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit and ground.

| (+)             | (-)    | Voltage (Approx.) |
|-----------------|--------|-------------------|
| AV control unit |        |                   |
| Terminal        |        |                   |
| 108             | Ground | 5 V               |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace AV control unit.

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AV

# U1300 AV COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1300 AV COMM CIRCUIT

### Description

INFOID:000000004238774

U1300 is indicated when malfunction occurs in communication signal of multi AV system. Indicated simultaneously, without fail, with the malfunction of control units connected to AV control unit with communication line. Determine the possible malfunction cause from the table below.

### SELF-DIAGNOSIS RESULTS DISPLAY ITEM

| DTC                              | Display contents of CONSULT-III   | Description  | Possible malfunction factor/Action to take  |
|----------------------------------|---|--|---|
| U1300<br>U121F                   | <ul style="list-style-type: none"> <li>AV COMM CIRCUIT [U1300]</li> <li>INTERNAL COMM [U121F]</li> </ul>  | <ul style="list-style-type: none"> <li>Malfunction is detected in AV control unit power supply and ground circuits.</li> <li>AV control unit malfunction is detected.</li> </ul>   | <ul style="list-style-type: none"> <li>AV control unit power supply and ground circuits.</li> <li>When there is no malfunction, AV control unit is malfunctioning.</li> </ul>                 |
| U1300<br>U1240                   | <ul style="list-style-type: none"> <li>AV COMM CIRCUIT [U1300]</li> <li>SWITCH CONN [U1240]</li> </ul>  | <ul style="list-style-type: none"> <li>Multifunction switch power supply and ground circuits malfunction is detected.</li> <li>Malfunction is detected in AV communication circuits between AV control unit and multifunction switch.</li> <li>Malfunction is detected in AV communication signal between AV control unit and multifunction switch.</li> </ul> | <ul style="list-style-type: none"> <li>Multifunction switch power supply and ground circuits.</li> <li>AV communication circuits between AV control unit and multifunction switch.</li> </ul> |
| U1300<br>U1252                   | <ul style="list-style-type: none"> <li>AV COMM CIRCUIT [U1300]</li> <li>REAR CAMERA LAN CONN [U1252]</li> </ul>   | <ul style="list-style-type: none"> <li>Malfunction is detected in camera control unit power supply and ground circuits.</li> <li>Malfunction is detected in AV communication signal between AV control unit and camera control unit.</li> </ul>  | Camera control unit power supply and ground circuits.   |
| U1300<br>U1254                   | <ul style="list-style-type: none"> <li>AV COMM CIRCUIT [U1300]</li> <li>IPOD CONN [U1254]</li> </ul>  | <ul style="list-style-type: none"> <li>iPod adapter power supply and ground circuits malfunction is detected.</li> <li>Malfunction is detected in AV communication circuits between camera control unit and iPod adapter.</li> <li>Malfunction is detected in AV communication signal between AV control unit and iPod adapter</li> </ul>                      | <ul style="list-style-type: none"> <li>iPod adapter power supply and ground circuits.</li> <li>AV communication circuits between camera control unit and iPod adapter.</li> </ul>             |
| U1300<br>U1252<br>U1254          | <ul style="list-style-type: none"> <li>AV COMM CIRCUIT [U1300]</li> <li>REAR CAMERA LAN CONN [U1252]</li> <li>IPOD CONN [U1254]</li> </ul>                              | Malfunction is detected in AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.   | AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.   |
| U1300<br>U1240<br>U1252<br>U1254 | <ul style="list-style-type: none"> <li>AV COMM CIRCUIT [U1300]</li> <li>SWITCH CONN [U1240]</li> <li>REAR CAMERA LAN CONN [U1252]</li> <li>IPOD CONN [U1254]</li> </ul> | Malfunction is detected in AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.   | AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.   |

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## POWER SUPPLY AND GROUND CIRCUIT

### AV CONTROL UNIT

#### AV CONTROL UNIT : Diagnosis Procedure

INFOID:000000004238775

#### 1.CHECK FUSE

Check for blown fuses.

| Power source                | Fuse No. |
|-----------------------------|----------|
| Battery                     | 34       |
| Ignition switch ACC or ON   | 19       |
| Ignition switch ON or START | 3        |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

#### 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between AV control unit harness connectors and ground.

| Signal name          | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|----------------------|---------------|--------------|--------------------------|-----------------|
| Battery power supply | M80           | 19           | OFF                      | Battery voltage |
|                      | M87           | 22           |                          |                 |
|                      |               | 24           |                          |                 |
| ACC power supply     | M80           | 7            | ACC                      | Battery voltage |
|                      | M87           | 25           |                          |                 |
| Ignition signal      | M87           | 35           | ON                       | Battery voltage |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between AV control unit and fuse.

#### 3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect AV control unit connectors.
3. Check continuity between AV control unit harness connectors and ground.

| Signal name | Connector No. | Terminal No. | Ignition switch position | Continuity |
|-------------|---------------|--------------|--------------------------|------------|
| Ground      | M80           | 20           | OFF                      | Existed    |
|             | M87           | 21           |                          |            |
|             |               | 23           |                          |            |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

## DISPLAY UNIT

#### DISPLAY UNIT : Diagnosis Procedure

INFOID:000000004238776

#### 1.CHECK FUSE

Check for blown fuses.

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

| Power source              | Fuse No. |
|---------------------------|----------|
| Battery                   | 34       |
| Ignition switch ACC or ON | 19       |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

## 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between display unit harness connector and ground.

| Signal name          | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|----------------------|---------------|--------------|--------------------------|-----------------|
| Battery power supply | M75           | 2            | OFF                      | Battery voltage |
| ACC power supply     | M75           | 3            | ACC                      | Battery voltage |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between Display unit and fuse.

## 3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector.
3. Check continuity between display unit harness connector and ground.

| Signal name | Connector No. | Terminal No. | Ignition switch position | Continuity |
|-------------|---------------|--------------|--------------------------|------------|
| Ground      | M75           | 1            | OFF                      | Existed    |
|             |               | 13           |                          |            |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

## MULTIFUNCTION SWITCH

### MULTIFUNCTION SWITCH : Diagnosis Procedure

INFOID:000000004238777

## 1.CHECK FUSE

Check for blown fuses.

| Power source              | Fuse No. |
|---------------------------|----------|
| Ignition switch ACC or ON | 19       |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

## 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between multifunction switch harness connector and ground.

| Signal name      | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|------------------|---------------|--------------|--------------------------|-----------------|
| ACC power supply | M72           | 3            | ACC                      | Battery voltage |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between multifunction switch and fuse.

## 3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect multifunction switch connector.

# POWER SUPPLY AND GROUND CIRCUIT

[BOSE AUDIO WITH NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between multifunction switch harness connector and ground.

| Signal name | Connector No. | Terminal No. | Ignition switch position | Continuity |
|-------------|---------------|--------------|--------------------------|------------|
| Ground      | M72           | 1            | OFF                      | Existed    |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

## CAMERA CONTROL UNIT

### CAMERA CONTROL UNIT : Diagnosis Procedure

INFOID:000000004238778

#### 1.CHECK FUSE

Check for blown fuses.

| Power source              | Fuse No. |
|---------------------------|----------|
| Battery                   | 34       |
| Ignition switch ACC or ON | 19       |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

#### 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between camera control unit harness connector and ground.

| Signal name          | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|----------------------|---------------|--------------|--------------------------|-----------------|
| Battery power supply | B241          | 32           | OFF                      | Battery voltage |
| ACC power supply     | B241          | 30           | ACC                      | Battery voltage |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between camera control unit and fuse.

#### 3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector.
3. Check continuity between camera control unit harness connector and ground.

| Signal name | Connector No. | Terminal No. | Ignition switch position | Continuity |
|-------------|---------------|--------------|--------------------------|------------|
| Ground      | B241          | 31           | OFF                      | Existed    |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

## BOSE AMP.

### BOSE AMP. : Diagnosis Procedure

INFOID:000000004238779

#### 1.CHECK FUSE

Check for blown fuses.

| Power source | Fuse No. |
|--------------|----------|
| Battery      | 5, 8     |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

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# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between BOSE amp. harness connector and ground.

| Signal name          | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|----------------------|---------------|--------------|--------------------------|-----------------|
| Battery power supply | B42           | 10           | OFF                      | Battery voltage |
|                      |               | 11           |                          |                 |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between BOSE amp. and fuse.

## 3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BOSE amp. connector.
3. Check continuity between BOSE amp. harness connector and ground.

| Signal name | Connector No. | Terminal No. | Ignition switch position | Continuity |
|-------------|---------------|--------------|--------------------------|------------|
| Ground      | B42           | 7            | OFF                      | Existed    |
|             |               | 12           |                          |            |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

## iPod ADAPTER

### iPod ADAPTER : Diagnosis Procedure

INFOID:000000004238781

## 1.CHECK FUSE

Check for blown fuses.

| Power source              | Fuse No. |
|---------------------------|----------|
| Battery                   | 34       |
| Ignition switch ACC or ON | 19       |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

## 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between iPod adapter harness connector and ground.

| Signal name          | Connector No. | Terminal No. | Ignition switch position | Value (Approx.) |
|----------------------|---------------|--------------|--------------------------|-----------------|
| Battery power supply | M111          | 5            | OFF                      | Battery voltage |
| ACC power supply     | M111          | 3            | ACC                      | Battery voltage |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Check harness between iPod adapter and fuse.



# RGB (R: RED) SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## RGB (R: RED) SIGNAL CIRCUIT

### Description

INFOID:000000004238782

Transmit the image displayed with AV control unit with RGB signal to the display unit.

### Diagnosis Procedure

INFOID:000000004238783

#### 1. CHECK CONTINUITY RGB (R: RED) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M75          | 17       | M88             | 61       | Existed    |

4. Check continuity between display unit harness connector and ground.

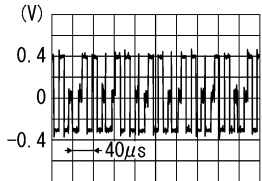
| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M75          | 17       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> Repair harness or connector.

#### 2. CHECK RGB (R: RED) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Condition   | Reference value  |
|--------------|----------|--------|---|--|
| Display unit |          |        |   |  |
| Connector    | Terminal |        |   |  |
| M75          | 17       | Ground | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen. |  <p>(V)</p> <p>0.4</p> <p>0</p> <p>-0.4</p> <p>← 40µs</p> <p>SKIB2238J</p> |

Is the inspection result normal?

- YES >> Replace display unit.  
 NO >> Replace AV control unit.

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# RGB (G: GREEN) SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## RGB (G: GREEN) SIGNAL CIRCUIT

### Description

INFOID:000000004238784

Transmit the image displayed with AV control unit with RGB signal to the display unit.

### Diagnosis Procedure

INFOID:000000004238785

#### 1. CHECK CONTINUITY RGB (G: GREEN) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M75          | 6        | M88             | 62       | Existed    |

4. Check continuity between display unit harness connector and ground.

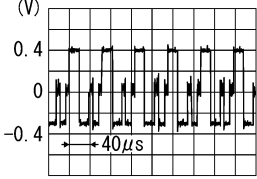
| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M75          | 6        |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> Repair harness or connector.

#### 2. CHECK RGB (G: GREEN) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Condition   | Reference value   |
|--------------|----------|--------|---|---|
| Display unit |          |        |   |   |
| Connector    | Terminal |        |   |   |
| M75          | 6        | Ground | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen. |  <p>SKIB2236J</p> |

Is the inspection result normal?

- YES >> Replace display unit.  
 NO >> Replace AV control unit.

# RGB (B: BLUE) SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## RGB (B: BLUE) SIGNAL CIRCUIT

### Description

INFOID:000000004238786

Transmit the image displayed with AV control unit with RGB signal to the display unit.

### Diagnosis Procedure

INFOID:000000004238787

#### 1. CHECK CONTINUITY RGB (B: BLUE) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M75          | 18       | M88             | 63       | Existed    |

4. Check continuity between display unit harness connector and ground.

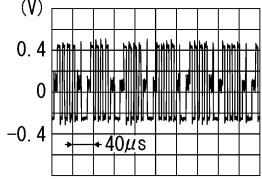
| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M75          | 18       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> Repair harness or connector.

#### 2. CHECK RGB (B: BLUE) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Condition   | Reference value  |
|--------------|----------|--------|---|--|
| Display unit |          |        |   |  |
| Connector    | Terminal |        |   |  |
| M75          | 18       | Ground | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen. |  <p>(V)</p> <p>0.4</p> <p>0</p> <p>-0.4</p> <p>← 40µs</p> <p>SKIB2237J</p> |

Is the inspection result normal?

- YES >> Replace display unit.  
 NO >> Replace AV control unit.

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# RGB SYNCHRONIZING SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## RGB SYNCHRONIZING SIGNAL CIRCUIT

### Description

INFOID:000000004238788

Transmit the RGB synchronizing signal to the display unit so as to synchronize the RGB image displayed with AV control unit.

### Diagnosis Procedure

INFOID:000000004238789

#### 1. CHECK CONTINUITY RGB SYNCHRONIZING SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M75          | 19       | M88             | 65       | Existed    |

4. Check continuity between display unit harness connector and ground.

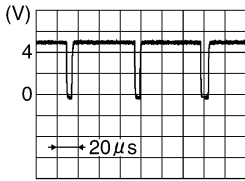
| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M75          | 19       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> Repair harness or connector.

#### 2. CHECK RGB SYNCHRONIZING SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)       |          | (-)    | Reference value  |
|-----------|----------|--------|--|
| Connector | Terminal |        |  |
| M75       | 19       | Ground |  <p>SKIB3603E</p> |

Is the inspection result normal?

- YES >> Replace display unit.  
 NO >> Replace AV control unit.

# RGB AREA (YS) SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## RGB AREA (YS) SIGNAL CIRCUIT

### Description

INFOID:000000004238790

Transmits the display area of RGB image displayed by AV control unit with RGB area (YS) signal to display unit.

### Diagnosis Procedure

INFOID:000000004238791

#### 1. CHECK CONTINUITY RGB AREA (YS) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M75          | 9        | M88             | 67       | Existed    |

4. Check continuity between display unit harness connector and ground.

| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M75          | 9        |        | Not existed |

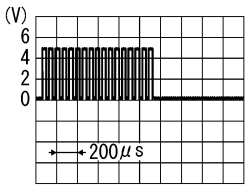
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2. CHECK RGB AREA (YS) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Condition                               | Reference value (Approx.)  |
|--------------|----------|--------|---|--|
| Display unit |          |        |   |  |
| Connector    | Terminal |        |   |  |
| M75          | 9        | Ground | At RGB image displayed                  | 5 V  |
|              |          |        | At rear view camera image is displayed. |  <p style="text-align: right; font-size: small;">PKIB4948J</p> |

Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

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# HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

### Description

INFOID:000000004238792

In composite image (AUX image, camera image), transmit the vertical synchronizing (VP) signal and horizontal synchronizing (HP) signal from display unit to AV control unit so as to synchronize the RGB images displayed with AV control unit such as the image quality adjusting menu, etc.

### Diagnosis Procedure

INFOID:000000004238793

#### 1. CHECK CONTINUITY HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M75          | 8        | M88             | 68       | Existed    |

4. Check continuity between display unit harness connector and ground.

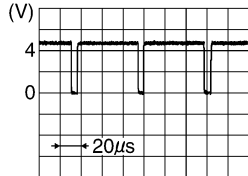
| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M75          | 8        |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair harness or connector.

#### 2. CHECK HORIZONTAL SYNCHRONIZING (HP) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Reference value  |
|--------------|----------|--------|--|
| Display unit |          |        |  |
| Connector    | Terminal |        |  |
| M75          | 8        | Ground | <br>SKIB3601E |

Is the inspection result normal?

- YES >> Replace AV control unit.  
NO >> Replace display unit.

# VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

### Description

INFOID:000000004238794

In composite image (AUX image, camera image), transmit the vertical synchronizing (VP) signal and horizontal synchronizing (HP) signal from display unit to AV control unit so as to synchronize the RGB images displayed with AV control unit such as the image quality adjusting menu, etc.

### Diagnosis Procedure

INFOID:000000004238795

#### 1. CHECK CONTINUITY VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

| Display unit |          | AV control unit |          | Continuity |
|--------------|----------|-----------------|----------|------------|
| Connector    | Terminal | Connector       | Terminal |            |
| M75          | 20       | M88             | 69       | Existed    |

4. Check continuity between display unit harness connector and ground.

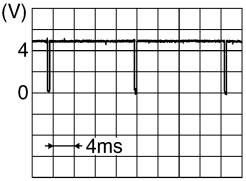
| Display unit |          | Ground | Continuity  |
|--------------|----------|--------|-------------|
| Connector    | Terminal |        |             |
| M75          | 20       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> Repair harness or connector.

#### 2. CHECK VERTICAL SYNCHRONIZING (VP) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

| (+)          |          | (-)    | Reference value  |
|--------------|----------|--------|--|
| Display unit |          |        |  |
| Connector    | Terminal |        |  |
| M75          | 20       | Ground |  <p style="text-align: center;">SKIB3598E</p> |

Is the inspection result normal?

- YES >> Replace AV control unit.  
 NO >> Replace display unit.

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# AUX IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## AUX IMAGE SIGNAL CIRCUIT

### Description

INFOID:000000004238796

Transmits the image signal of external device from auxiliary input jacks to display unit.

### Diagnosis Procedure

INFOID:000000004238797

#### 1. CHECK CONTINUITY AUX IMAGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect auxiliary input jacks connector and display unit connector.
3. Check continuity between auxiliary input jacks harness connector and display unit harness connector.

| Auxiliary input jacks |          | Display unit |          | Continuity |
|-----------------------|----------|--------------|----------|------------|
| Connector             | Terminal | Connector    | Terminal |            |
| M154 <sup>*1</sup>    | 7        | M75          | 15       | Existed    |
| M362 <sup>*2</sup>    |          |              |          |            |

- \*1: A/T models
- \*2: M/T models

4. Check continuity between auxiliary input jacks harness connector and ground.

| Auxiliary input jacks |          | Ground | Continuity  |
|-----------------------|----------|--------|-------------|
| Connector             | Terminal |        |             |
| M154 <sup>*1</sup>    | 7        | Ground | Not existed |
| M362 <sup>*2</sup>    |          |        |             |

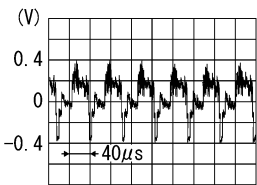
- \*1: A/T models
- \*2: M/T models

#### Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> Repair harness or connector.

#### 2. CHECK AUX IMAGE SIGNAL

1. Connect auxiliary input jacks connector and display unit connector.
2. Turn ignition switch ON.
3. Check signal between auxiliary input jacks harness connector and ground.

| (+)                |          | (-)    | Condition               | Reference value  |
|--------------------|----------|--------|-------------------------|--|
| Connector          | Terminal |        |                         |  |
| M154 <sup>*1</sup> | 7        | Ground | At AUX image displayed. |  <p>(V)</p> <p>0.4</p> <p>0</p> <p>-0.4</p> <p>40µs</p> <p>SKIB2251J</p> |
| M362 <sup>*2</sup> |          |        |                         |  |

- \*1: A/T models
- \*2: M/T models

#### Is the inspection result normal?

- YES >> Replace display unit.  
 NO >> Check that there is no malfunction in the external device.



# MODE CHANGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## MODE CHANGE SIGNAL CIRCUIT

### Description

INFOID:000000004238798

- AV control unit transmits the mode change signal to BOSE amp.
- Driver's Audio Stage controls the speaker's output characteristic by BOSE amp. so that the driver's seat is to be the center of sounds.

### Diagnosis Procedure

INFOID:000000004238799

#### 1. CHECK CONTINUITY MODE CHANGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BOSE amp. connector and AV control unit connector.
3. Check continuity between BOSE amp. harness connector and AV control unit harness connector.

| BOSE amp. |          | AV control unit |          | Continuity |
|-----------|----------|-----------------|----------|------------|
| Connector | Terminal | Connector       | Terminal |            |
| B41       | 37       | M87             | 44       | Existed    |

4. Check continuity between BOSE amp. harness connector and ground.

| BOSE amp. |          | Ground | Continuity  |
|-----------|----------|--------|-------------|
| Connector | Terminal |        |             |
| B41       | 37       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> Repair harness or connector.

#### 2. CHECK MODE CHANGE SIGNAL

1. Connect BOSE amp. connector.
2. Turn ignition switch ON.
3. Check voltage between BOSE amp. harness connector and ground.

| (+)       |          | (-)    | Condition                | Voltage (Approx.) |
|-----------|----------|--------|--------------------------|-------------------|
| BOSE amp. |          |        |                          |                   |
| Connector | Terminal |        |                          |                   |
| B41       | 37       | Ground | Driver's Audio Stage ON  | 0 V               |
|           |          |        | Driver's Audio Stage OFF | 8.5 V             |

Is the inspection result normal?

- YES >> Replace AV control unit.  
 NO >> Replace BOSE amp.

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# CD EJECT SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## CD EJECT SIGNAL CIRCUIT

### Description

INFOID:000000004238800

The eject signal is output to AV control unit when the eject switch of multifunction switch is pressed.

### Diagnosis Procedure

INFOID:000000004238801

#### 1. CHECK CONTINUITY CD EJECT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect multifunction switch connector and AV control unit connector.
3. Check continuity between multifunction switch harness connector and AV control unit harness connector.

| Multifunction switch |          | AV control unit |          | Continuity |
|----------------------|----------|-----------------|----------|------------|
| Connector            | Terminal | Connector       | Terminal |            |
| M72                  | 14       | M89             | 85       | Existed    |

4. Check continuity between multifunction switch harness connector and ground.

| Multifunction switch |          | Ground | Continuity  |
|----------------------|----------|--------|-------------|
| Connector            | Terminal |        |             |
| M72                  | 14       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair harness or connector.

#### 2. CHECK AV CONTROL UNIT VOLTAGE

1. Connect multifunction switch connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector and ground.

| (+)             |          | (-)    | Condition                 | Voltage (Approx.) |
|-----------------|----------|--------|---------------------------|-------------------|
| AV control unit |          |        |                           |                   |
| Connector       | Terminal |        |                           |                   |
| M89             | 85       | Ground | Pressing the eject switch | 0 V               |
|                 |          |        | Except for above          | 5 V               |

Is the inspection result normal?

- YES >> Replace preset switch.  
NO >> Replace AV control unit.

# MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## MICROPHONE SIGNAL CIRCUIT

### Description

INFOID:000000004238802

Supply power from AV control unit to microphone. The microphone transmits the sound/voice to the AV control unit.

### Diagnosis Procedure

INFOID:000000004238803

#### 1.CHECK CONTINUITY BETWEEN AV CONTROL UNIT AND MICROPHONE CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector and microphone connector.
3. Check continuity between AV control unit harness connector and microphone harness connector.

| AV control unit |           | Microphone |           | Continuity |
|-----------------|-----------|------------|-----------|------------|
| Connector       | Terminals | Connector  | Terminals |            |
| M87             | 26        | R17        | 4         | Existed    |
|                 | 27        |            | 2         |            |
|                 | 28        |            | 1         |            |

4. Check continuity between AV control unit harness connector and ground.

| AV control unit |           | Ground | Continuity  |
|-----------------|-----------|--------|-------------|
| Connector       | Terminals |        |             |
| M87             | 26        |        | Not existed |
|                 | 28        |        |             |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2.CHECK VOLTAGE MICROPHONE VCC

1. Connect AV control unit connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector.

| (+)             |          | (-)             |          | Voltage (Approx.) |
|-----------------|----------|-----------------|----------|-------------------|
| AV control unit |          | AV control unit |          |                   |
| Connector       | Terminal | Connector       | Terminal |                   |
| M87             | 26       | M87             | 27       | 5 V               |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace AV control unit.

#### 3.CHECK MICROPHONE SIGNAL

1. Connect microphone connector.
2. Check signal between AV control unit harness connector.

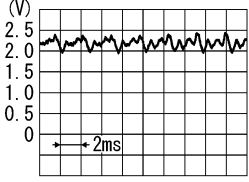
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AV

# MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

| (+)             |          | (-)             |          | Condition     | Reference value  |
|-----------------|----------|-----------------|----------|---------------|--|
| AV control unit |          | AV control unit |          |               |  |
| Connector       | Terminal | Connector       | Terminal |               |  |
| M87             | 28       | M87             | 27       | Give a voice. |  <p>(V)<br/>2.5<br/>2.0<br/>1.5<br/>1.0<br/>0.5<br/>0</p> <p>2ms</p> <p>PKIB5037J</p> |

Is the inspection result normal?

- YES >> Replace AV control unit.
- NO >> Replace microphone.

# CAMERA IMAGE SIGNAL CIRCUIT (REAR VIEW CAMERA TO CAMERA CONTROL UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## CAMERA IMAGE SIGNAL CIRCUIT (REAR VIEW CAMERA TO CAMERA CONTROL UNIT)

### Description

INFOID:000000004238804

- Camera control unit outputs camera ON signal to rear view camera and inputs rear view camera image signal from rear view camera when the reverse signal is input.
- The camera control unit that inputs the camera image signal transmits the camera image signal to the display unit.

### Diagnosis Procedure

INFOID:000000004238805

#### 1. CHECK CONTINUITY CAMERA IMAGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and rear view camera connector.
3. Check continuity between camera control unit harness connector and rear view camera harness connector.

| Camera control unit |          | Rear view camera |          | Continuity |
|---------------------|----------|------------------|----------|------------|
| Connector           | Terminal | Connector        | Terminal |            |
| B241                | 6        | B305             | 3        | Existed    |

4. Check continuity between camera control unit harness connector and ground.

| Camera control unit |          | Ground | Continuity  |
|---------------------|----------|--------|-------------|
| Connector           | Terminal |        |             |
| B241                | 6        |        | Not existed |

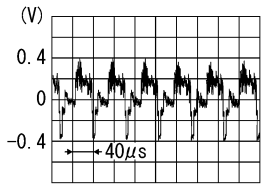
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2. CHECK CAMERA IMAGE SIGNAL

1. Connect camera control unit connector and rear view camera connector.
2. Turn ignition switch ON.
3. Check signal between camera control unit harness connector and ground.

| (+)                 |          | (-)    | Condition                            | Reference value  |
|---------------------|----------|--------|--------------------------------------|--|
| Camera control unit |          |        |                                      |  |
| Connector           | Terminal |        |                                      |  |
| B241                | 6        | Ground | At rear view camera image displayed. |  <p style="text-align: right; font-size: small;">SKIB2251J</p> |

Is the inspection result normal?

YES >> Replace camera control unit.

NO >> Replace rear view camera.

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AV

# CAMERA ON SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## CAMERA ON SIGNAL CIRCUIT

### Description

INFOID:000000004238806

- Camera control unit outputs camera ON signal to rear view camera and inputs rear view camera image signal from rear view camera when the reverse signal is input.
- The camera control unit that inputs the camera image signal transmits the camera image signal to the display unit.

### Diagnosis Procedure

INFOID:000000004238807

#### 1. CHECK CONTINUITY CAMERA ON SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and rear view camera connector.
3. Check continuity between camera control unit harness connector and rear view camera harness connector.

| Camera control unit |          | Rear view camera |          | Continuity |
|---------------------|----------|------------------|----------|------------|
| Connector           | Terminal | Connector        | Terminal |            |
| B241                | 8        | B305             | 1        | Existed    |

4. Check continuity between camera control unit harness connector and ground.

| Camera control unit |          | Ground | Continuity  |
|---------------------|----------|--------|-------------|
| Connector           | Terminal |        |             |
| B241                | 8        |        | Not existed |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2. CHECK VOLTAGE CAMERA ON SIGNAL

1. Connect camera control unit connector and rear view camera connector.
2. Turn ignition switch ON.
3. Check voltage between camera control unit harness connector terminal 8 and ground.

| (+) Camera control unit |          | (-)    | Condition                                | Voltage (Approx.) |
|-------------------------|----------|--------|--|-------------------|
| Connector               | Terminal |        |  |                   |
| B241                    | 8        | Ground | Shift the selector lever to "R" position | 6 V               |

Is the inspection result normal?

YES >> Replace rear view camera.

NO >> Replace camera control unit.

# CAMERA IMAGE SIGNAL CIRCUIT (CAMERA CONTROL UNIT TO DISPLAY UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## CAMERA IMAGE SIGNAL CIRCUIT (CAMERA CONTROL UNIT TO DISPLAY UNIT)

### Description

INFOID:000000004238808

- Camera control unit outputs camera ON signal to rear view camera and inputs rear view camera image signal from rear view camera when the reverse signal is input.
- The camera control unit that inputs the camera image signal transmits the camera image signal to the display unit.

### Diagnosis Procedure

INFOID:000000004238809

#### 1. CHECK CONTINUITY CAMERA IMAGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and display unit connector.
3. Check continuity between camera control unit harness connector and display unit harness connector.

| Camera control unit |          | Display unit |          | Continuity |
|---------------------|----------|--------------|----------|------------|
| Connector           | Terminal | Connector    | Terminal |            |
| B241                | 12       | M75          | 12       | Existed    |

4. Check continuity between camera control unit harness connector and ground.

| Camera control unit |          | Ground | Continuity  |
|---------------------|----------|--------|-------------|
| Connector           | Terminal |        |             |
| B241                | 12       |        | Not existed |

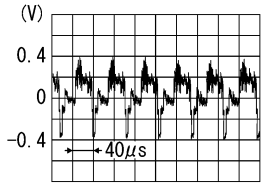
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2. CHECK CAMERA IMAGE SIGNAL

1. Connect camera control unit connector and display unit connector.
2. Turn ignition switch ON.
3. Check signal between camera control unit harness connector and ground.

| (+)                 |          | (-)    | Condition                            | Reference value  |
|---------------------|----------|--------|--------------------------------------|--|
| Camera control unit |          |        |                                      |  |
| Connector           | Terminal |        |                                      |  |
| B241                | 12       | Ground | At rear view camera image displayed. |  <p style="text-align: right; font-size: small;">SKIB2251J</p> |

Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace camera control unit.

AV

# STEERING ANGLE SENSOR SIGNAL 1, 2 CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## STEERING ANGLE SENSOR SIGNAL 1, 2 CIRCUIT

### Description

INFOID:000000004238810

- Steering angle sensor signal 1, 2 detects the turning direction and quantity of the steering and transmits it to the camera control unit.
- Steering angle sensor signal 3 detects the neutral position of the steering and transmits it to the camera control unit.
- Camera control unit performs the correction of neutral position with sensor signal 1, 2, 3 and vehicle speed signal.

### Diagnosis Procedure

INFOID:000000004238811

#### 1. CHECK CONTINUITY STEERING ANGLE SENSOR SIGNAL 1, 2 CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and steering angle sensor connector.
3. Check continuity between camera control unit harness connector and steering angle sensor harness connector.

| Camera control unit |           | Steering angle sensor |           | Continuity |
|---------------------|-----------|-----------------------|-----------|------------|
| Connector           | Terminals | Connector             | Terminals |            |
| B241                | 23        | M37                   | 3         | Existed    |
|                     | 24        |                       | 4         |            |

4. Check continuity between camera control unit harness connector and ground.

| Camera control unit |           | Ground | Continuity  |
|---------------------|-----------|--------|-------------|
| Connector           | Terminals |        |             |
| B241                | 23        |        | Not existed |
|                     | 24        |        |             |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2. CHECK SENSOR SIGNAL 1, 2

1. Connect camera control unit connector.
2. Turn ignition switch ON.
3. Check voltage between camera control unit harness connector and ground.

| (+) Camera control unit |           | (-)    | Voltage (Approx.) |
|-------------------------|-----------|--------|-------------------|
| Connector               | Terminals |        |                   |
| B241                    | 23        | Ground | 5 V               |
|                         | 24        |        |                   |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace camera control unit.

#### 3. CHECK SENSOR SIGNAL 1, 2

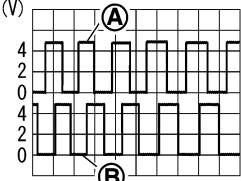
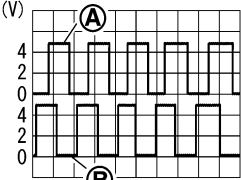
1. Connect steering angle sensor connector.
2. Check signal between camera control unit harness connector and ground.



# STEERING ANGLE SENSOR SIGNAL 1, 2 CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

| (+)                 |           | (-)    | Condition                      | Reference value  |
|---------------------|-----------|--------|--------------------------------|--|
| Camera control unit |           |        |                                |  |
| Connector           | Terminals |        |                                |  |
| B241                | 23, 24    | Ground | Turn the steering to the right |  <p>(V)</p> <p>4<br/>2<br/>0<br/>4<br/>2<br/>0</p> <p>SKIB3827E</p> <p>A: Sensor signal 1<br/>B: Sensor signal 2</p> |
|                     |           |        | Turn the steering to the left  |  <p>(V)</p> <p>4<br/>2<br/>0<br/>4<br/>2<br/>0</p> <p>SKIB3828E</p> <p>A: Sensor signal 1<br/>B: Sensor signal 2</p> |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering angle sensor.

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# STEERING ANGLE SENSOR SIGNAL 3 CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## STEERING ANGLE SENSOR SIGNAL 3 CIRCUIT

### Description

INFOID:000000004238812

- Steering angle sensor signal 1, 2 detects the turning direction and quantity of the steering and transmits it to the camera control unit.
- Steering angle sensor signal 3 detects the neutral position of the steering and transmits it to the camera control unit.
- Camera control unit performs the correction of neutral position with sensor signal 1, 2, 3 and vehicle speed signal.

### Diagnosis Procedure

INFOID:000000004238813

#### 1. CHECK CONTINUITY STEERING ANGLE SENSOR SIGNAL 3 CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and steering angle sensor connector.
3. Check continuity between camera control unit harness connector and steering angle sensor harness connector.

| Camera control unit |           | Steering angle sensor |           | Continuity |
|---------------------|-----------|-----------------------|-----------|------------|
| Connector           | Terminals | Connector             | Terminals |            |
| B241                | 25        | M37                   | 5         | Existed    |

4. Check continuity between camera control unit harness connector and ground.

| Camera control unit |           | Ground | Continuity  |
|---------------------|-----------|--------|-------------|
| Connector           | Terminals |        |             |
| B241                | 25        |        | Not existed |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2. CHECK SENSOR SIGNAL 3

1. Connect camera control unit connector.
2. Turn ignition switch ON.
3. Check voltage between camera control unit harness connector and ground.

| (+)                 |           | (-)    | Voltage (Approx.) |
|---------------------|-----------|--------|-------------------|
| Camera control unit |           |        |                   |
| Connector           | Terminals |        |                   |
| B241                | 25        | Ground | 5 V               |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace camera control unit.

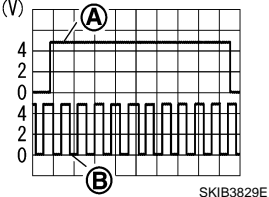
#### 3. CHECK SENSOR SIGNAL 3

1. Connect steering angle sensor connector.
2. Check signal between camera control unit harness connector and ground.

# STEERING ANGLE SENSOR SIGNAL 3 CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

| (+)                 |           | (-)    | Condition                                     | Reference value   |
|---------------------|-----------|--------|---|---|
| Camera control unit |           |        |   |   |
| Connector           | Terminals |        |   |   |
| B241                | 25        | Ground | Turn the steering around the neutral position |  <p>A: Sensor signal 3<br/>B: Sensor signal 1</p> |

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering angle sensor.

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# STEERING SWITCH SIGNAL A CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## STEERING SWITCH SIGNAL A CIRCUIT

### Description

INFOID:000000004238814

Transmits the steering switch signal to AV control unit.

### Diagnosis Procedure

INFOID:000000004238815

#### 1. CHECK STEERING SWITCH SIGNAL A CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector and spiral cable harness connector.

| AV control unit |          | Spiral cable |          | Continuity |
|-----------------|----------|--------------|----------|------------|
| Connector       | Terminal | Connector    | Terminal |            |
| M80             | 6        | M36          | 24       | Existed    |

3. Check continuity between AV control unit harness connector and ground.

| AV control unit |          | Ground | Continuity  |
|-----------------|----------|--------|-------------|
| Connector       | Terminal |        |             |
| M80             | 6        |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair harness or connector.

#### 2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Replace spiral cable.

#### 3. CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector and spiral cable connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector.

| (+)             |          | (-)             |          | Voltage (Approx.) |
|-----------------|----------|-----------------|----------|-------------------|
| AV control unit |          | AV control unit |          |                   |
| Connector       | Terminal | Connector       | Terminal |                   |
| M80             | 6        | M80             | 15       | 5 V               |

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Replace AV control unit.

#### 4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-436, "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace steering switch.

### Component Inspection

INFOID:000000004238816

Measure the resistance between the steering switch connector terminals 14 to 17 and 15 to 17.

# STEERING SWITCH SIGNAL A CIRCUIT

[BOSE AUDIO WITH NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

Standard

**Between terminals 14 and 17**

**ENTER switch ON : 2003 – 2043 Ω**

**↙ switch ON : 716 – 730 Ω**

**MENU DOWN switch ON : 318 – 324 Ω**

**MENU UP switch ON : 120 – 122 Ω**

**SOURCE switch ON : 0 Ω**

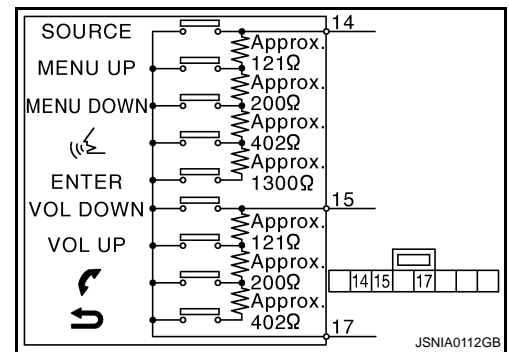
**Between terminals 15 and 17**

**↻ switch ON : 716 – 730 Ω**

**↶ switch ON : 318 – 324 Ω**

**VOL UP switch ON : 120 – 122 Ω**

**VOL DOWN switch ON : 0 Ω**



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# STEERING SWITCH SIGNAL B CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## STEERING SWITCH SIGNAL B CIRCUIT

### Description

INFOID:000000004238817

Transmits the steering switch signal to AV control unit.

### Diagnosis Procedure

INFOID:000000004238818

#### 1. CHECK STEERING SWITCH SIGNAL B CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector and spiral cable harness connector.

| AV control unit |          | Spiral cable |          | Continuity |
|-----------------|----------|--------------|----------|------------|
| Connector       | Terminal | Connector    | Terminal |            |
| M80             | 16       | M36          | 31       | Existed    |

3. Check continuity between AV control unit harness connector and ground.

| AV control unit |          | Ground | Continuity  |
|-----------------|----------|--------|-------------|
| Connector       | Terminal |        |             |
| M80             | 16       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair harness or connector.

#### 2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Replace spiral cable.

#### 3. CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector and spiral cable connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector.

| (+)             |          | (-)             |          | Voltage (Approx.) |
|-----------------|----------|-----------------|----------|-------------------|
| AV control unit |          | AV control unit |          |                   |
| Connector       | Terminal | Connector       | Terminal |                   |
| M80             | 16       | M80             | 15       | 5 V               |

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Replace AV control unit.

#### 4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-438, "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace steering switch.

### Component Inspection

INFOID:000000004238819

Measure the resistance between the steering switch connector terminals 14 to 17 and 15 to 17.

# STEERING SWITCH SIGNAL B CIRCUIT

[BOSE AUDIO WITH NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

Standard

**Between terminals 14 and 17**

**ENTER switch ON : 2003 – 2043 Ω**

**↙ switch ON : 716 – 730 Ω**

**MENU DOWN switch ON : 318 – 324 Ω**

**MENU UP switch ON : 120 – 122 Ω**

**SOURCE switch ON : 0 Ω**

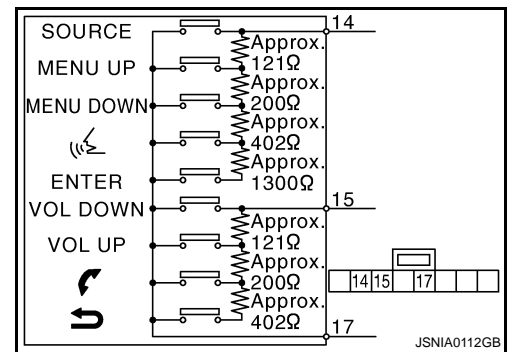
**Between terminals 15 and 17**

**↻ switch ON : 716 – 730 Ω**

**↶ switch ON : 318 – 324 Ω**

**VOL UP switch ON : 120 – 122 Ω**

**VOL DOWN switch ON : 0 Ω**



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# STEERING SWITCH SIGNAL GND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## STEERING SWITCH SIGNAL GND CIRCUIT

### Description

INFOID:000000004238820

Transmits the steering switch signal to AV control unit.

### Diagnosis Procedure

INFOID:000000004238821

#### 1.CHECK STEERING SWITCH SIGNAL GND CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector and spiral cable harness connector.

| AV control unit |          | Spiral cable |          | Continuity |
|-----------------|----------|--------------|----------|------------|
| Connector       | Terminal | Connector    | Terminal |            |
| M80             | 15       | M36          | 33       | Existed    |

3. Connect AV control unit connector.

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Repair harness or connector.

#### 2.CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Replace spiral cable.

#### 3.CHECK GROUND CIRCUIT

1. Connect AV control unit connector.
2. Check continuity between AV control unit harness connector and ground.

| AV control unit |          | Ground | Continuity  |
|-----------------|----------|--------|-------------|
| Connector       | Terminal |        |             |
| M80             | 15       |        | Not existed |

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Replace AV control unit.

#### 4.CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-440, "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace steering switch.

### Component Inspection

INFOID:000000004238822

Measure the resistance between the steering switch connector terminals 14 to 17 and 15 to 17.



# STEERING SWITCH SIGNAL GND CIRCUIT

[BOSE AUDIO WITH NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

Standard

**Between terminals 14 and 17**

**ENTER switch ON : 2003 – 2043 Ω**

**↙ switch ON : 716 – 730 Ω**

**MENU DOWN switch ON : 318 – 324 Ω**

**MENU UP switch ON : 120 – 122 Ω**

**SOURCE switch ON : 0 Ω**

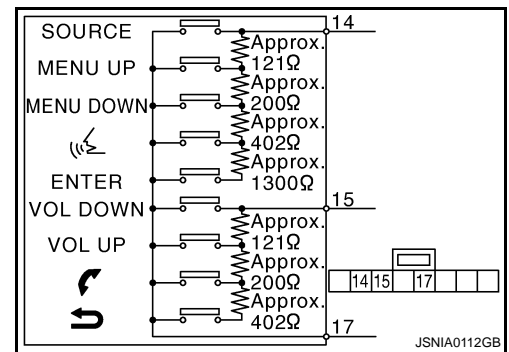
**Between terminals 15 and 17**

**↻ switch ON : 716 – 730 Ω**

**↶ switch ON : 318 – 324 Ω**

**VOL UP switch ON : 120 – 122 Ω**

**VOL DOWN switch ON : 0 Ω**



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# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## ECU DIAGNOSIS INFORMATION

### AV CONTROL UNIT

#### Reference Value

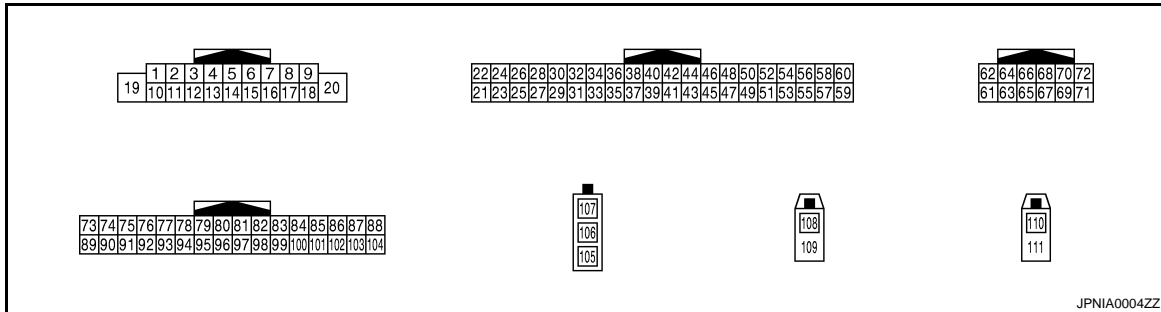
INFOID:000000004238823

#### VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

| Monitor Item | Condition           |   | Value/Status |
|--------------|---------------------|---|--------------|
| VHCL SPD SIG | Ignition switch ON  | Vehicle speed > 0 km/h (0 MPH)              | On           |
|              |                     | Vehicle speed = 0 km/h (0 MPH)              | Off          |
| PKB SIG      | Ignition switch ON  | Parking brake is applied.                   | On           |
|              |                     | Parking brake is released.                  | Off          |
| ILLUM SIG    | Ignition switch ON  | Light switch ON                             | On           |
|              |                     | Light switch OFF                            | Off          |
| IGN SIG      | Ignition switch ON  | —   | On           |
|              | Ignition switch ACC | —   | Off          |
| REV SIG      | Ignition switch ON  | Selector lever in R position                | On           |
|              |                     | Selector lever in any position other than R | Off          |

#### TERMINAL LAYOUT



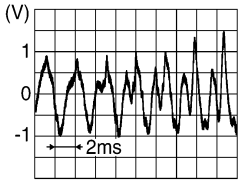

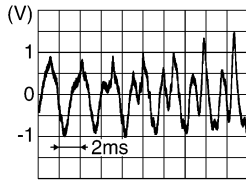
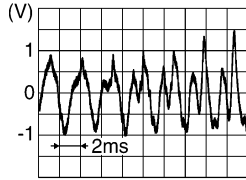


#### PHYSICAL VALUES

| Terminal (Wire color) |        | Description           |        | Input/Output       | Condition    | Reference value (Approx.) |
|-----------------------|--------|-----------------------|--------|--------------------|--------------|---------------------------|
| +                     | -      | Signal name           |        |                    |              |                           |
| 1 (SB)                | Ground | Amp. ON signal        | Output | Ignition switch ON | —            | 10 V                      |
| 2 (O)                 | 3 (W)  | Sound signal front LH | Output | Ignition switch ON | Voice output | <p>SKIB3609E</p>          |

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

| Terminal<br>(Wire color) |           | Description                |                  | Condition                 |  | Reference value<br>(Approx.)   |
|--------------------------|-----------|----------------------------|------------------|---------------------------|--|--|
| +                        | -         | Signal name                | Input/<br>Output |                           |  |  |
| 4<br>(V)                 | 5<br>(LG) | Sound signal rear LH       | Output           | Ignition<br>switch<br>ON  | Voice output   | <br>SKIB3609E   |
| 6<br>(P)                 | 15<br>(B) | Steering switch signal A   | Input            | Ignition<br>switch<br>ON  | Keep pressing SOURCE switch.   | 0 V  |
|                          |           |                            |                  |                           | Keep pressing MENU UP switch.  | 1 V  |
|                          |           |                            |                  |                           | Keep pressing MENU DOWN switch.  | 2 V  |
|                          |           |                            |                  |                           | Keep pressing  switch     | 3 V  |
|                          |           |                            |                  |                           | Keep pressing ENTER switch.  | 4 V  |
|                          |           |                            |                  |                           | Except for above.  | 5 V  |
| 7<br>(GR)                | Ground    | ACC power supply           | Input            | Ignition<br>switch<br>ACC | —  | Battery voltage  |
| 9<br>(L)                 | Ground    | Illumination signal        | Input            | Ignition<br>switch<br>OFF | Lighting switch is OFF.  | 0 V  |
|                          |           |                            |                  |                           | Lighting switch is ON.   | 12 V   |
| 10                       | —         | Shield                     | —                | —                         | —  | —  |
| 11<br>(R)                | 12<br>(G) | Sound signal front RH      | Output           | Ignition<br>switch<br>ON  | Voice output   | <br>SKIB3609E |
| 13<br>(BR)               | 14<br>(Y) | Sound signal rear RH       | Output           | Ignition<br>switch<br>ON  | Voice output   | <br>SKIB3609E |
| 15<br>(B)                | Ground    | Steering switch signal GND | —                | Ignition<br>switch<br>ON  | —  | 0 V  |
| 16<br>(L)                | 15<br>(B) | Steering switch signal B   | Input            | Ignition<br>switch<br>ON  | Keep pressing VOL DOWN switch.   | 0 V  |
|                          |           |                            |                  |                           | Keep pressing VOL UP switch.   | 1 V  |
|                          |           |                            |                  |                           | Keep pressing  switch. | 2 V  |
|                          |           |                            |                  |                           | Keep pressing  switch. | 3 V  |
|                          |           |                            |                  |                           | Except for above.  | 5 V  |

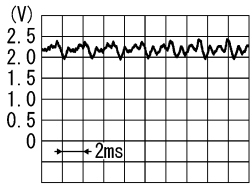
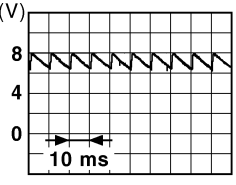
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AV

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

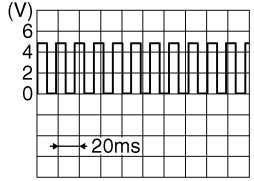
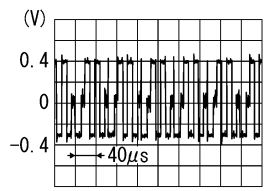
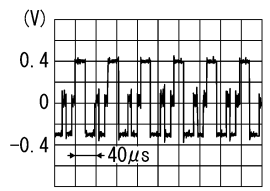
[BOSE AUDIO WITH NAVIGATION]

| Terminal<br>(Wire color) |        | Description                   |                  | Condition                 |                       | Reference value<br>(Approx.)  |
|--------------------------|--------|-------------------------------|------------------|---------------------------|-----------------------|---|
| +                        | -      | Signal name                   | Input/<br>Output |                           |                       |   |
| 19<br>(Y)                | Ground | Battery power supply          | Input            | Ignition<br>switch<br>OFF | —                     | Battery voltage   |
| 20<br>(B)                | Ground | GND                           | —                | Ignition<br>switch<br>ON  | —                     | 0 V   |
| 21<br>(B)                | Ground | GND                           | —                | Ignition<br>switch<br>ON  | —                     | 0 V   |
| 22<br>(Y)                | Ground | Battery power supply          | Input            | Ignition<br>switch<br>OFF | —                     | Battery voltage   |
| 23<br>(B)                | Ground | GND                           | —                | Ignition<br>switch<br>ON  | —                     | 0 V   |
| 24<br>(Y)                | Ground | Battery power supply          | Input            | Ignition<br>switch<br>OFF | —                     | Battery voltage   |
| 25<br>(V)                | Ground | ACC power supply              | Input            | Ignition<br>switch<br>ACC | —                     | Battery voltage   |
| 26<br>(G)                | 27     | Microphone VCC                | Output           | Ignition<br>switch<br>ON  | —                     | 5 V   |
| 27                       | Ground | Shield (Microphone<br>ground) | —                | Ignition<br>switch<br>ON  | —                     | 0 V   |
| 28<br>(R)                | 27     | Microphone signal             | Input            | Ignition<br>switch<br>ON  | Give a voice          |  <p style="text-align: right; font-size: small;">PKIB5037J</p>   |
| 35<br>(G)                | Ground | Ignition signal               | Input            | Ignition<br>switch<br>ON  | —                     | Battery voltage   |
| 36<br>(SB)               | Ground | Parking brake signal          | Input            | Ignition<br>switch<br>ON  | Parking brake ON      | 0 V   |
|                          |        |                               |                  |                           | Parking brake OFF     |  <p style="text-align: right; font-size: small;">JSNIA0007GB</p> |
| 37<br>(O)                | Ground | Reverse signal                | Input            | Ignition<br>switch<br>ON  | R position            | 12 V  |
|                          |        |                               |                  |                           | Other than R position | 0 V   |

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

| Terminal<br>(Wire color) |        | Description                          |                  | Condition          |   | Reference value<br>(Approx.)  |
|--------------------------|--------|--------------------------------------|------------------|--------------------|---|---|
| +                        | -      | Signal name                          | Input/<br>Output |                    |   |   |
| 38<br>(GR)               | Ground | Vehicle speed signal (8-pulse)       | Input            | Ignition switch ON | When vehicle speed is approx. 40 km/h (25MPH)   | <b>NOTE:</b><br>Maximum voltage may be 12 V due to specifications (connected units).<br><br><small>SKIA6649J</small> |
| 40<br>(W)                | Ground | Camera-connection recognition signal | Input            | Ignition switch ON | Connected to camera control unit connector  | 0 V   |
|                          |        |                                      |                  |                    | Not connected to camera control unit connector  | 5 V   |
| 41<br>(B)                | Ground | Control signal 1                     | Input            | Ignition switch ON | —   | 0 V   |
| 44<br>(SB)               | Ground | Mode change signal                   | Output           | Ignition switch ON | Driver's Audio Stage ON   | 0 V   |
|                          |        |                                      |                  |                    | Driver's Audio Stage OFF  | 8.5 V   |
| 48<br>(G)                | —      | AV communication signal (H)          | Input/<br>Output | —                  | —   | —   |
| 49<br>(R)                | —      | AV communication signal (L)          | Input/<br>Output | —                  | —   | —   |
| 50<br>(V)                | —      | AV communication signal (H)          | Input/<br>Output | —                  | —   | —   |
| 51<br>(LG)               | —      | AV communication signal (L)          | Input/<br>Output | —                  | —   | —   |
| 52<br>(L)                | —      | CAN-H                                | Input/<br>Output | —                  | —   | —   |
| 53<br>(P)                | —      | CAN-L                                | Input/<br>Output | —                  | —   | —   |
| 61<br>(W)                | Ground | RGB signal (R: red)                  | Output           | Ignition switch ON | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen. | <br><small>SKIB2238J</small>   |
| 62<br>(B)                | Ground | RGB signal (G: green)                | Output           | Ignition switch ON | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen. | <br><small>SKIB2236J</small>   |

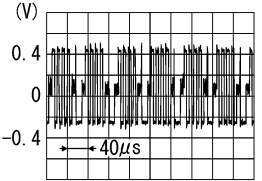
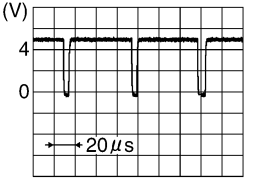
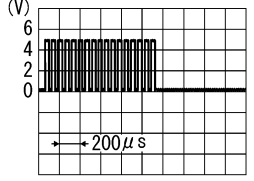
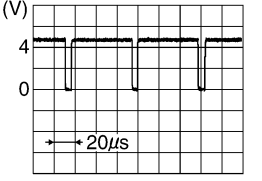
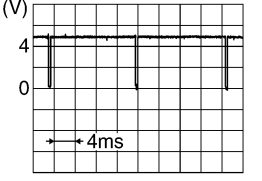
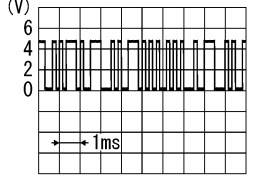
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AV

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

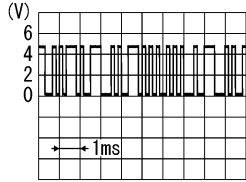
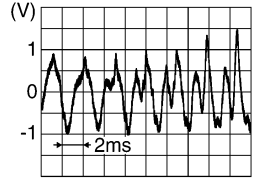
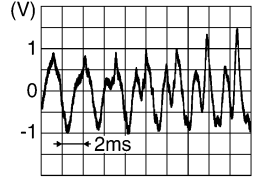
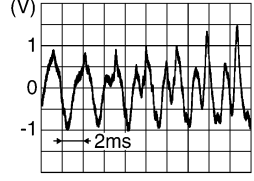
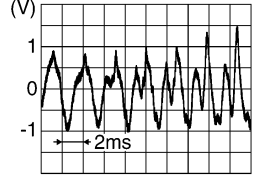
[BOSE AUDIO WITH NAVIGATION]

| Terminal<br>(Wire color) |        | Description                             |                  | Condition                |  | Reference value<br>(Approx.)  |
|--------------------------|--------|---|------------------|--------------------------|--|---|
| +                        | -      | Signal name                             | Input/<br>Output |                          |  |   |
| 63<br>(R)                | Ground | RGB signal (B: blue)                    | Output           | Ignition<br>switch<br>ON | Start confirmation/adjust-<br>ment mode, and then dis-<br>play color bar by selecting<br>"Color Spectrum Bar" on<br>DISPLAY DIAGNOSIS<br>screen. |  <p style="text-align: right; font-size: small;">SKIB2237J</p>   |
| 64                       | —      | Shield                                  | —                | —                        | —  | —   |
| 65<br>(G)                | Ground | RGB synchronizing signal                | Output           | Ignition<br>switch<br>ON | —  |  <p style="text-align: right; font-size: small;">SKIB3603E</p>   |
| 66                       | —      | Shield                                  | —                | —                        | —  | —   |
| 67<br>(Y)                | Ground | RGB area (YS) signal                    | Output           | Ignition<br>switch<br>ON | At RGB image displayed   | 5 V   |
|                          |        |   |                  |                          | At rear view camera image<br>is displayed  |  <p style="text-align: right; font-size: small;">PKIB4948J</p>  |
| 68<br>(L)                | Ground | Horizontal synchronizing<br>(HP) signal | Input            | Ignition<br>switch<br>ON | —  |  <p style="text-align: right; font-size: small;">SKIB3601E</p> |
| 69<br>(GR)               | Ground | Vertical synchronizing (VP)<br>signal   | Input            | Ignition<br>switch<br>ON | —  |  <p style="text-align: right; font-size: small;">SKIB3598E</p> |
| 70<br>(P)                | Ground | Communication signal<br>(CONT→DISP)     | Output           | Ignition<br>switch<br>ON | When adjusting display<br>brightness.  |  <p style="text-align: right; font-size: small;">PKIB5039J</p> |

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

| Terminal<br>(Wire color) |           | Description                         |                  | Condition                |                                       | Reference value<br>(Approx.)  |
|--------------------------|-----------|-------------------------------------|------------------|--------------------------|---------------------------------------|---|
| +                        | -         | Signal name                         | Input/<br>Output |                          |                                       |   |
| 71<br>(O)                | Ground    | Communication signal<br>(DISP→CONT) | Input            | Ignition<br>switch<br>ON | When adjusting display<br>brightness. |  <p style="text-align: right; font-size: small;">PKIB5039J</p>   |
| 72                       | —         | Shield                              | —                | —                        | —                                     | —   |
| 79<br>(R)                | 95<br>(W) | iPod sound signal LH                | Input            | Ignition<br>switch<br>ON | When iPod mode is select-<br>ed       |  <p style="text-align: right; font-size: small;">SKIB3609E</p>   |
| 80<br>(B)                | 96<br>(G) | iPod sound signal RH                | Input            | Ignition<br>switch<br>ON | When iPod mode is select-<br>ed       |  <p style="text-align: right; font-size: small;">SKIB3609E</p>  |
| 81                       | —         | Shield                              | —                | —                        | —                                     | —   |
| 85<br>(SB)               | Ground    | Eject signal                        | Input            | —                        | Pressing the eject switch             | 0 V   |
|                          |           |                                     |                  |                          | Except for above                      | 5 V   |
| 87<br>(W)                | 88<br>(B) | AUX sound signal LH                 | Input            | Ignition<br>switch<br>ON | When AUX mode is select-<br>ed        |  <p style="text-align: right; font-size: small;">SKIB3609E</p> |
| 102<br>(BR)              | Ground    | SW GND                              | —                | Ignition<br>switch<br>ON | —                                     | 0 V   |
| 103<br>(R)               | 88<br>(B) | AUX sound signal RH                 | Input            | Ignition<br>switch<br>ON | When AUX mode is select-<br>ed        |  <p style="text-align: right; font-size: small;">SKIB3609E</p> |
| 105                      | —         | FM sub                              | Input            | —                        | —                                     | —   |
| 106                      | —         | AM-FM main                          | Input            | —                        | —                                     | —   |
| 107                      | Ground    | Antenna amp. ON signal              | Output           | Ignition<br>switch<br>ON | —                                     | 12 V  |

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# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

| Terminal<br>(Wire color) |        | Description              |                  | Condition                |   | Reference value<br>(Approx.) |
|--------------------------|--------|--------------------------|------------------|--------------------------|---|------------------------------|
| +                        | -      | Signal name              | Input/<br>Output |                          |   |                              |
| 108                      | Ground | Satellite antenna signal | Input            | Ignition<br>switch<br>ON | Not connected to satellite<br>antenna connector | 5 V                          |
| 109                      | —      | Shield                   | —                | —                        | —   | —                            |
| 110                      | Ground | GPS antenna signal       | Input            | Ignition<br>switch<br>ON | Not connected to GPS an-<br>tenna connector     | 5 V                          |
| 111                      | —      | Shield                   | —                | —                        | —   | —                            |

## Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM -

INFOID:000000004238824

**NOTE:**

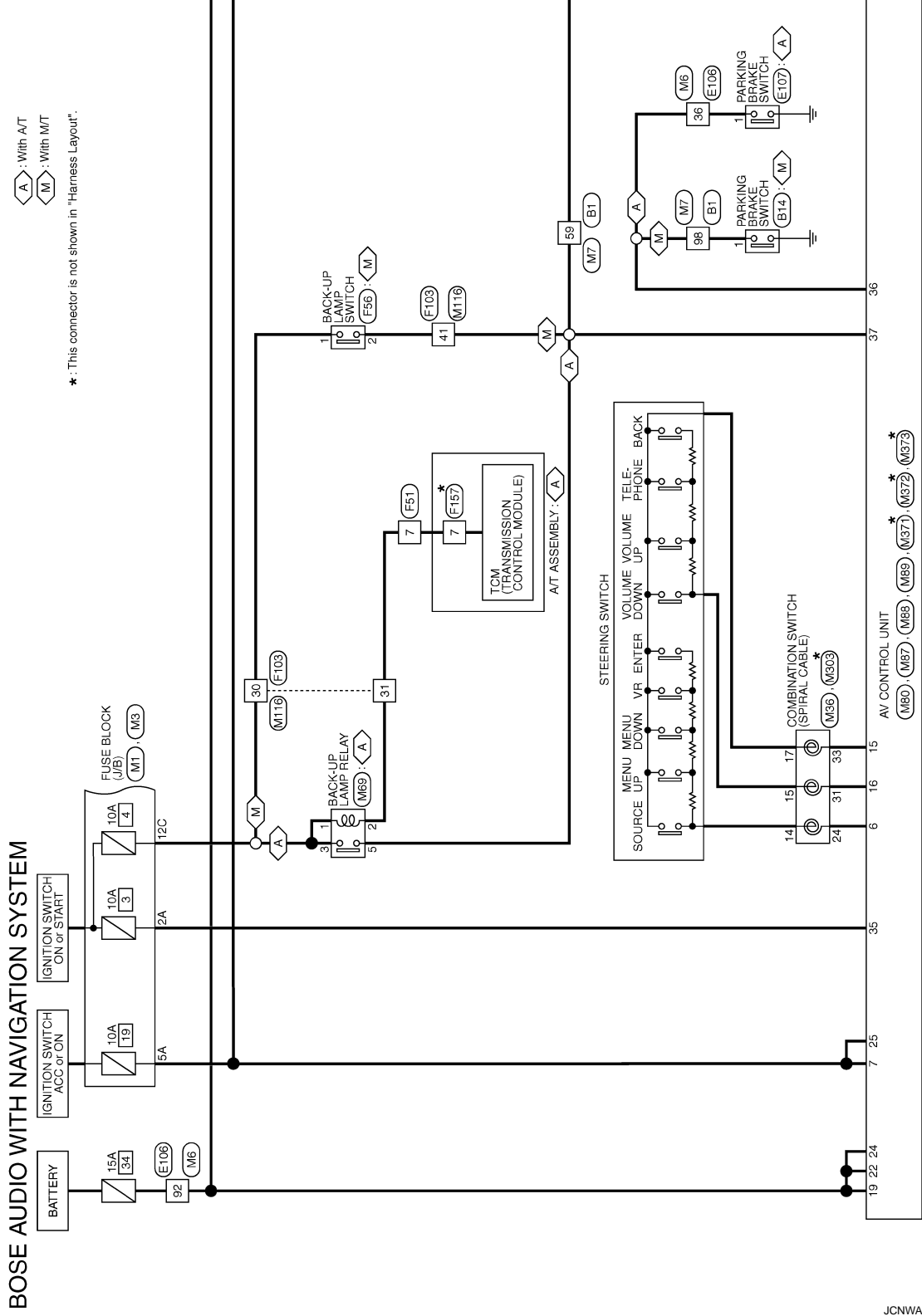


# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.



A : With AT  
M : With MT  
 \* : This connector is not shown in "Harness Layout".

2008/08/07

JCNWA1768GE

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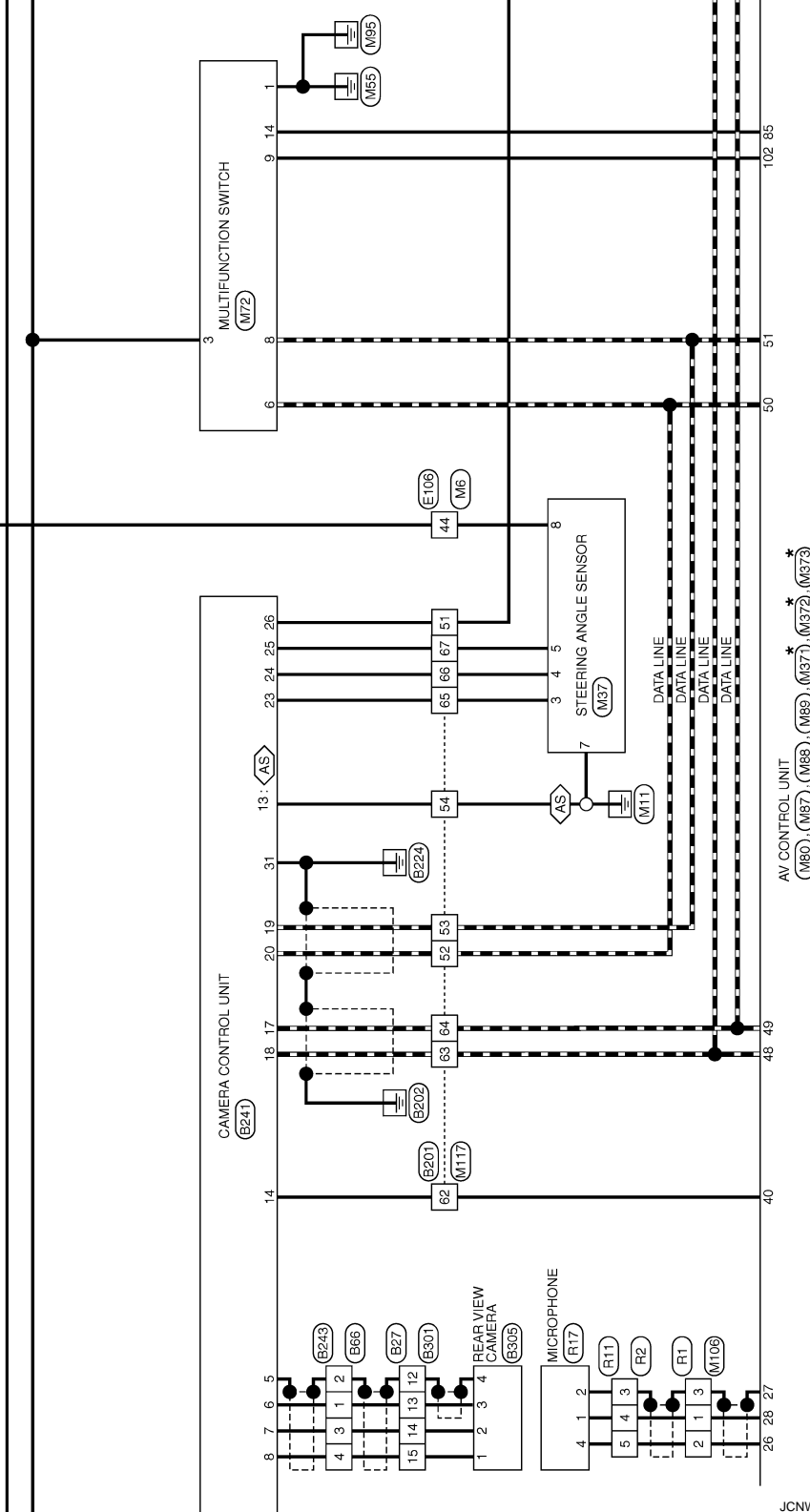
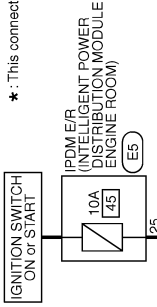
# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

AS : With 4MAS

\* : This connector is not shown in "Harness Layout".



JCNWA1770GE

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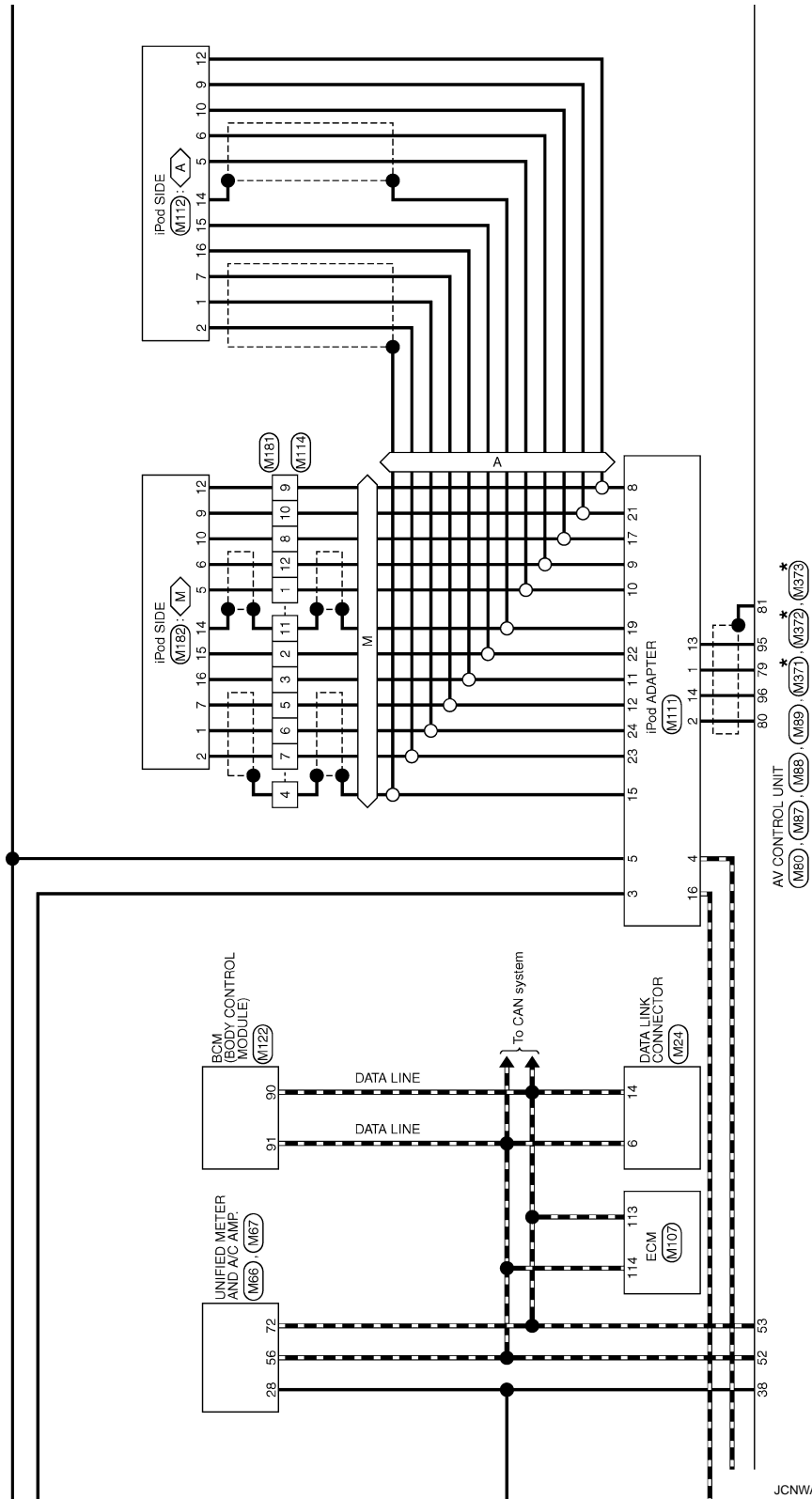
# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

◁ : With A/T  
 ▷ : With M/T

\*: This connector is not shown in "Harness Layout".

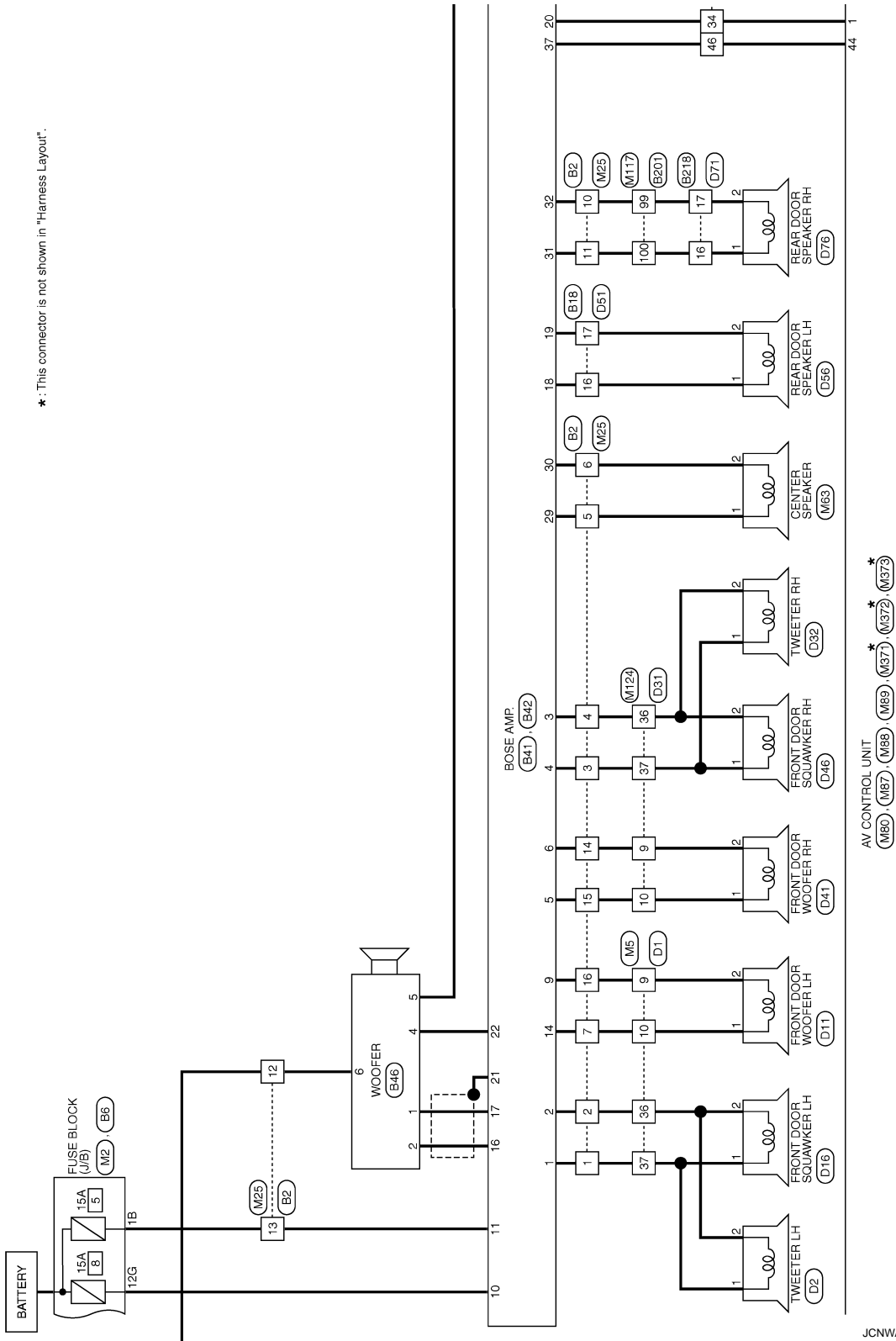


JCNWA1771GE

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]



\*: This connector is not shown in "Harness Layout".

AV CONTROL UNIT  
 (M80) (M87) (M88) (M89) (M37) (M372) (M373)

JCNWA1772GE

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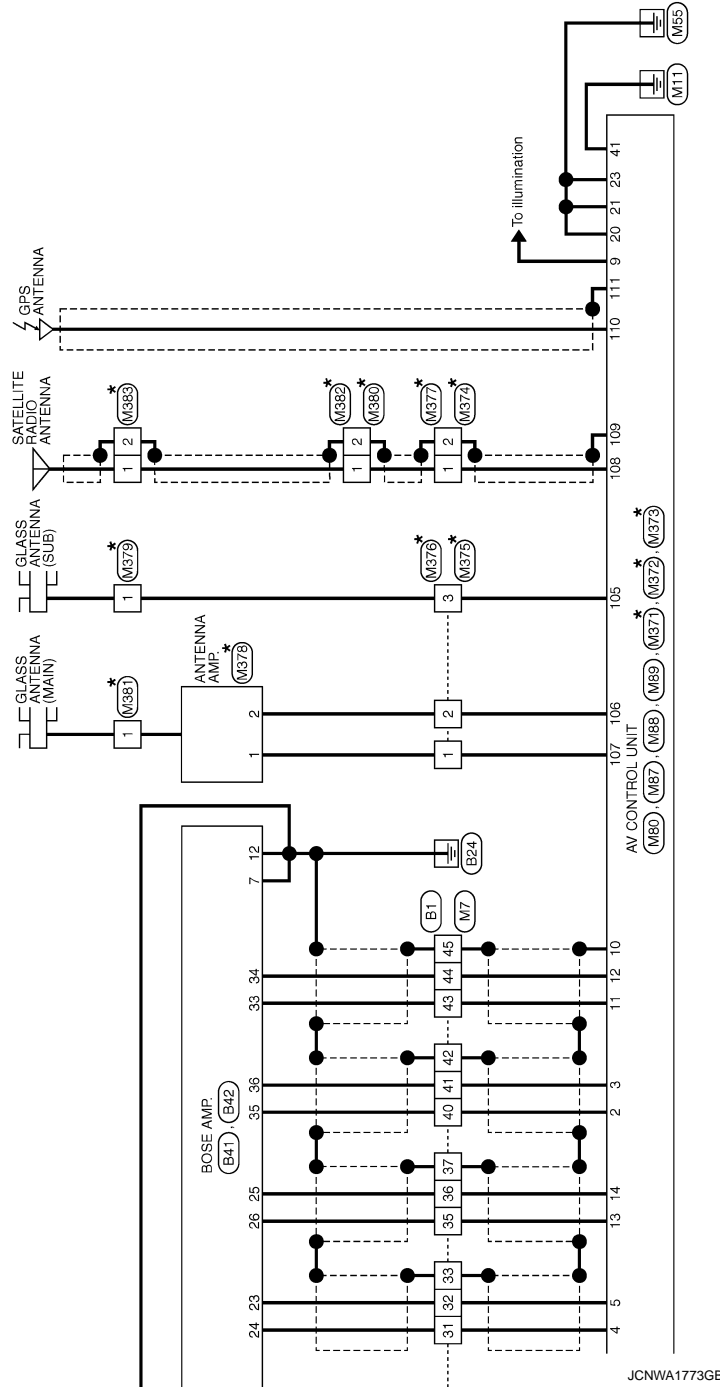
AV

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

\*: This connector is not shown in "Harness Layout".



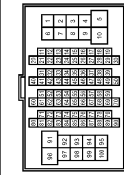
# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                 |
|----------------|-----------------|
| Connector No.  | B1              |
| Wire to Wire   | WIRE TO WIRE    |
| Connector Type | TH00FW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | V             | -                           |
| 32           | SB            | -                           |
| 33           | SHIELD        | -                           |
| 34           | W             | -                           |
| 35           | BR            | -                           |
| 36           | Y             | -                           |
| 37           | SHIELD        | -                           |
| 40           | P             | -                           |
| 41           | L             | -                           |
| 42           | SHIELD        | -                           |
| 43           | R             | -                           |

|    |        |   |
|----|--------|---|
| 44 | G      | - |
| 45 | SHIELD | - |
| 46 | SB     | - |
| 58 | V      | - |
| 98 | V      | - |

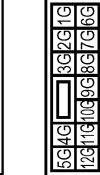


|                |              |
|----------------|--------------|
| Connector No.  | B2           |
| Wire to Wire   | WIRE TO WIRE |
| Connector Type | NS16FW-CS    |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | V             | -                           |
| 4            | LG            | -                           |
| 5            | L             | -                           |
| 6            | O             | -                           |
| 7            | B             | -                           |
| 10           | Y             | -                           |
| 11           | LG            | -                           |
| 12           | P             | -                           |
| 13           | GR            | -                           |

|    |   |   |
|----|---|---|
| 14 | R | - |
| 15 | G | - |
| 16 | W | - |

|                |                  |
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| Connector No.  | B6               |
| Wire to Wire   | FUSE BLOCK (J/B) |
| Connector Type | MS12FB-CS        |



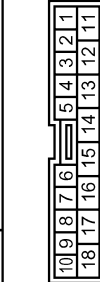
|              |     |   |   |
|--------------|-----|---|---|
| Terminal No. | 12G | Y | - |
|--------------|-----|---|---|

|                |                                 |
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| Connector No.  | B14                             |
| Wire to Wire   | PARKING BRAKE SWITCH (WITH M/T) |
| Connector Type | P01FB-A                         |



|              |   |   |   |
|--------------|---|---|---|
| Terminal No. | 1 | V | - |
|--------------|---|---|---|

|                |              |
|----------------|--------------|
| Connector No.  | B18          |
| Wire to Wire   | WIRE TO WIRE |
| Connector Type | TR10FW-NSB   |



|              |    |   |   |
|--------------|----|---|---|
| Terminal No. | 16 | L | - |
| 17           | P  | - | - |

|                |              |
|----------------|--------------|
| Connector No.  | B27          |
| Wire to Wire   | WIRE TO WIRE |
| Connector Type | NS16MW-CS    |



|              |    |        |   |
|--------------|----|--------|---|
| Terminal No. | 12 | SHIELD | - |
| 13           | B  | -      | - |
| 14           | W  | -      | - |
| 15           | R  | -      | - |

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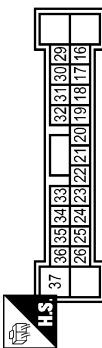
# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |               |
|----------------|---------------|
| Connector No.  | B41           |
| Connector Name | BOSE AMP.     |
| Connector Type | SCA19FBR-SG44 |



| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 16           | SB            | SOUND SIGNAL WOOFER (-)       |
| 17           | V             | SOUND SIGNAL WOOFER (-)       |
| 18           | L             | SOUND SIGNAL REAR DOOR LH (+) |
| 19           | P             | SOUND SIGNAL REAR DOOR LH (-) |
| 20           | W             | AMP. ON SIGNAL                |
| 21           | SHIELD        | SHIELD                        |
| 22           | GR            | WOOFER AMP. ON SIGNAL         |
| 23           | SB            | SOUND SIGNAL REAR LH (-)      |
| 24           | V             | SOUND SIGNAL REAR LH (+)      |
| 25           | Y             | SOUND SIGNAL REAR RH (-)      |
| 26           | BR            | SOUND SIGNAL REAR RH (+)      |

|                |            |
|----------------|------------|
| Connector No.  | B46        |
| Connector Name | WOOFER     |
| Connector Type | MS08FBR-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | V             | SOUND SIGNAL WOOFER (-)     |
| 2            | SB            | SOUND SIGNAL WOOFER (+)     |
| 4            | GR            | WOOFER AMP. ON SIGNAL       |
| 5            | B             | GND                         |
| 6            | P             | BATTERY                     |

|    |    |                               |
|----|----|-------------------------------|
| 29 | L  | SOUND SIGNAL CENTER (+)       |
| 30 | O  | SOUND SIGNAL CENTER (-)       |
| 31 | LG | SOUND SIGNAL REAR DOOR RH (+) |
| 32 | V  | SOUND SIGNAL REAR DOOR RH (-) |
| 33 | R  | SOUND SIGNAL FRONT RH (+)     |
| 34 | C  | SOUND SIGNAL FRONT RH (-)     |
| 35 | P  | SOUND SIGNAL FRONT LH (+)     |
| 36 | L  | SOUND SIGNAL FRONT LH (-)     |
| 37 | SB | MODE CHANGE SIGNAL            |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | FRONT DOOR SQUAWKER LH (+)  |
| 2            | W             | FRONT DOOR SQUAWKER LH (-)  |
| 3            | LG            | FRONT DOOR SQUAWKER RH (+)  |
| 4            | V             | FRONT DOOR SQUAWKER RH (-)  |
| 5            | G             | FRONT DOOR WOOFER RH (+)    |
| 6            | R             | FRONT DOOR WOOFER RH (-)    |
| 7            | B             | GND                         |
| 9            | W             | FRONT DOOR WOOFER LH (-)    |
| 10           | Y             | BATTERY                     |
| 11           | GR            | BATTERY                     |
| 12           | B             | GND                         |

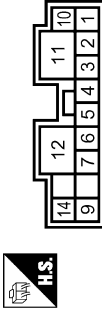
|                |                    |
|----------------|--------------------|
| Connector No.  | B201               |
| Connector Name | WIRE TO WIRE       |
| Connector Type | TH103PW-CS (P-TM4) |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 51           | V             | -                           |
| 52           | G             | -                           |
| 53           | R             | -                           |
| 54           | B             | -                           |
| 60           | L             | -                           |
| 61           | LG            | -                           |
| 62           | P             | -                           |
| 63           | Y             | -                           |
| 64           | BR            | -                           |
| 65           | W             | -                           |
| 66           | R             | -                           |

|    |   |                          |
|----|---|--------------------------|
| 14 | B | FRONT DOOR WOOFER LH (+) |
|----|---|--------------------------|

|                |               |
|----------------|---------------|
| Connector No.  | B42           |
| Connector Name | BOSE AMP.     |
| Connector Type | SCA12FBR-SJA2 |



|     |   |   |
|-----|---|---|
| 67  | O | - |
| 69  | P | - |
| 100 | L | - |



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## BOSE AUDIO WITH NAVIGATION SYSTEM

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|----------------|--------------|
| Connector No.  | B210         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



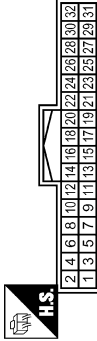
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | SHIELD        | -                           |
| 4            | W             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | B218         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NSS   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | L             | -                           |
| 17           | P             | -                           |

|                |                     |
|----------------|---------------------|
| Connector No.  | B241                |
| Connector Name | CAMERA CONTROL UNIT |
| Connector Type | TH03FW-NH           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 5            | SHIELD        | SHIELD                      |
| 6            | B             | CAMERA IMAGE SIGNAL         |
| 7            | W             | GND                         |
| 8            | R             | CAMERA ON SIGNAL            |
| 11           | SHIELD        | SHIELD                      |
| 12           | W             | CAMERA IMAGE SIGNAL         |
| 13           | B             | CONTROL SIGNAL              |
| 14           | P             | CONNECTION RECOGNITION      |
| 17           | BR            | AV COMM (L)                 |
| 18           | Y             | AV COMM (H)                 |
| 19           | R             | AV COMM (L)                 |

|    |    |                         |
|----|----|-------------------------|
| 20 | G  | AV COMM (H)             |
| 22 | GR | REVERSE                 |
| 23 | W  | SENSOR SIGNAL 1         |
| 24 | R  | SENSOR SIGNAL 2         |
| 25 | O  | SENSOR SIGNAL 3         |
| 28 | V  | VEHICLE SPEED (8-PULSE) |
| 30 | LG | ACC                     |
| 31 | B  | GND                     |
| 32 | L  | BATTERY                 |

|                |              |
|----------------|--------------|
| Connector No.  | B243         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | -                           |
| 2            | SHIELD        | -                           |
| 3            | W             | -                           |
| 4            | R             | -                           |
| 5            | GR            | -                           |

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|----------------|--------------|
| Connector No.  | B201         |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS18FW-CS    |



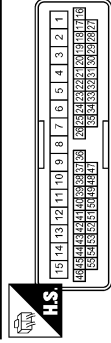
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 12           | SHIELD        | -                           |
| 13           | Y             | -                           |
| 14           | L             | -                           |
| 15           | R             | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | B205             |
| Connector Name | REAR VIEW CAMERA |
| Connector Type | TH03MW-NH        |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | CAMERA ON SIGNAL            |
| 2            | L             | GND                         |
| 3            | Y             | CAMERA IMAGE SIGNAL         |
| 4            | SHIELD        | SHIELD                      |

|                |              |
|----------------|--------------|
| Connector No.  | D1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 36           | W             | -                           |
| 37           | L             | -                           |

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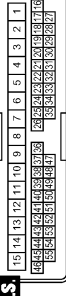







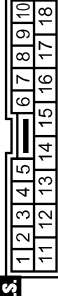
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## BOSE AUDIO WITH NAVIGATION SYSTEM

|  |                        |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
|--|------------------------|-----|----------------|------------------------|----------------|-------------|---|--------------|----|----|---------------|----|---------------|-----------------------------|---|---|---|-----------------------------|---|---|---|---|
| <table border="1"> <tr><td>Connector No.</td><td>D2</td></tr> <tr><td>Connector Name</td><td>TWEETER LH</td></tr> <tr><td>Connector Type</td><td>TK02M8R-P</td></tr> </table>              | Connector No.          | D2  | Connector Name | TWEETER LH             | Connector Type | TK02M8R-P   | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>L</td><td>W</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>  | Terminal No. | 1  | 2  | Color of Wire | L  | W             | Signal Name [Specification] | - | - |   |                             |   |   |   |   |
| Connector No.  | D2                     |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Name   | TWEETER LH             |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Type   | TK02M8R-P              |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Terminal No.   | 1                      | 2   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Color of Wire  | L                      | W   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Signal Name [Specification]  | -                      | -   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>D11</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR WOOFER LH</td></tr> <tr><td>Connector Type</td><td>NS02FW-CS</td></tr> </table>   | Connector No.          | D11 | Connector Name | FRONT DOOR WOOFER LH   | Connector Type | NS02FW-CS   | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>G</td><td>R</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>  | Terminal No. | 1  | 2  | Color of Wire | G  | R             | Signal Name [Specification] | - | - |   |                             |   |   |   |   |
| Connector No.  | D11                    |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Name   | FRONT DOOR WOOFER LH   |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Type   | NS02FW-CS              |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Terminal No.   | 1                      | 2   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Color of Wire  | G                      | R   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Signal Name [Specification]  | -                      | -   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>D16</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR SQUAWKER LH</td></tr> <tr><td>Connector Type</td><td>TK02FBR</td></tr> </table>       | Connector No.          | D16 | Connector Name | FRONT DOOR SQUAWKER LH | Connector Type | TK02FBR     | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>L</td><td>W</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>  | Terminal No. | 1  | 2  | Color of Wire | L  | W             | Signal Name [Specification] | - | - |   |                             |   |   |   |   |
| Connector No.  | D16                    |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Name   | FRONT DOOR SQUAWKER LH |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Type   | TK02FBR                |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Terminal No.   | 1                      | 2   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Color of Wire  | L                      | W   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Signal Name [Specification]  | -                      | -   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>D31</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH40FY-CS/5</td></tr> </table>             | Connector No.          | D31 | Connector Name | WIRE TO WIRE           | Connector Type | TH40FY-CS/5 | <table border="1"> <tr><td>Terminal No.</td><td>9</td><td>10</td><td>36</td><td>37</td></tr> <tr><td>Color of Wire</td><td>R</td><td>G</td><td>W</td><td>L</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </table> | Terminal No. | 9  | 10 | 36            | 37 | Color of Wire | R                           | G | W | L | Signal Name [Specification] | - | - | - | - |
| Connector No.  | D31                    |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Name   | WIRE TO WIRE           |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Type   | TH40FY-CS/5            |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Terminal No.   | 9                      | 10  | 36             | 37                     |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Color of Wire  | R                      | G   | W              | L                      |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Signal Name [Specification]  | -                      | -   | -              | -                      |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>D32</td></tr> <tr><td>Connector Name</td><td>TWEETER RH</td></tr> <tr><td>Connector Type</td><td>TK02M8R-P</td></tr> </table>             | Connector No.          | D32 | Connector Name | TWEETER RH             | Connector Type | TK02M8R-P   | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>L</td><td>W</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>  | Terminal No. | 1  | 2  | Color of Wire | L  | W             | Signal Name [Specification] | - | - |   |                             |   |   |   |   |
| Connector No.  | D32                    |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Name   | TWEETER RH             |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Type   | TK02M8R-P              |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Terminal No.   | 1                      | 2   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Color of Wire  | L                      | W   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Signal Name [Specification]  | -                      | -   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>D41</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR WOOFER RH</td></tr> <tr><td>Connector Type</td><td>NS02FW-CS</td></tr> </table>   | Connector No.          | D41 | Connector Name | FRONT DOOR WOOFER RH   | Connector Type | NS02FW-CS   | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>G</td><td>R</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>  | Terminal No. | 1  | 2  | Color of Wire | G  | R             | Signal Name [Specification] | - | - |   |                             |   |   |   |   |
| Connector No.  | D41                    |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Name   | FRONT DOOR WOOFER RH   |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Type   | NS02FW-CS              |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Terminal No.   | 1                      | 2   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Color of Wire  | G                      | R   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Signal Name [Specification]  | -                      | -   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>D46</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR SQUAWKER RH</td></tr> <tr><td>Connector Type</td><td>TK02FBR</td></tr> </table>       | Connector No.          | D46 | Connector Name | FRONT DOOR SQUAWKER RH | Connector Type | TK02FBR     | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>L</td><td>W</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>  | Terminal No. | 1  | 2  | Color of Wire | L  | W             | Signal Name [Specification] | - | - |   |                             |   |   |   |   |
| Connector No.  | D46                    |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Name   | FRONT DOOR SQUAWKER RH |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Type   | TK02FBR                |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Terminal No.   | 1                      | 2   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Color of Wire  | L                      | W   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Signal Name [Specification]  | -                      | -   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>D51</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TK10MP-NS</td></tr> </table>               | Connector No.          | D51 | Connector Name | WIRE TO WIRE           | Connector Type | TK10MP-NS   | <table border="1"> <tr><td>Terminal No.</td><td>16</td><td>17</td></tr> <tr><td>Color of Wire</td><td>LG</td><td>Y</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>   | Terminal No. | 16 | 17 | Color of Wire | LG | Y             | Signal Name [Specification] | - | - |   |                             |   |   |   |   |
| Connector No.  | D51                    |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Name   | WIRE TO WIRE           |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Type   | TK10MP-NS              |     |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Terminal No.   | 16                     | 17  |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Color of Wire  | LG                     | Y   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Signal Name [Specification]  | -                      | -   |                |                        |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |

JCNWA1777GE

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                      |
|----------------|----------------------|
| Connector No.  | D16                  |
| Connector Name | REAR DOOR SPEAKER LH |
| Connector Type | NS02FBR-CS           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | LG            | -                           |
| 2            | Y             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D71          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MW-NSS   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | L             | -                           |
| 17           | P             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | D76                  |
| Connector Name | REAR DOOR SPEAKER RH |
| Connector Type | NS02FBR-CS           |



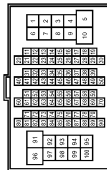
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | P             | -                           |

|                |  |
|----------------|--|
| Connector No.  | E5   |
| Connector Name | FROM I/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | TH02FW-CS/2-M4-1V  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 25           | G             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | E108            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH02FW-CS16-TM4 |



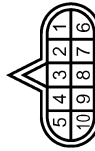
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | O             | -                           |
| 44           | G             | -                           |
| 92           | LG            | -                           |

|                |                                 |
|----------------|---------------------------------|
| Connector No.  | E107                            |
| Connector Name | PARKING BRAKE SWITCH (WITH A/T) |
| Connector Type | TB01FW                          |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | O             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | F51          |
| Connector Name | A/T ASSEMBLY |
| Connector Type | FR10FG-DGY   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 7            | R             | -                           |

|                |                     |
|----------------|---------------------|
| Connector No.  | F56                 |
| Connector Name | BACK-UP LAMP SWITCH |
| Connector Type | FR02FB              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | O             | -                           |

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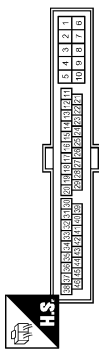
# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

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|----------------|--------------|
| Connector No.  | F103         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK36FW-NS10  |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 30           | R             | -                           |
| 31           | R             | -                           |
| 41           | O             | -                           |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | F157                              |
| Connector Name | TOM (TRANSMISSION CONTROL MODULE) |
| Connector Type | SPT0FG                            |



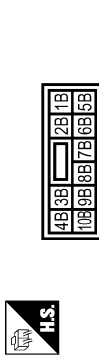
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| Terminal No. | Color of Wire | Signal Name [Specification] |
| 7            | L             | REV LAMP FLY                |

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|----------------|------------------|
| Connector No.  | M1               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS30FW-M2        |



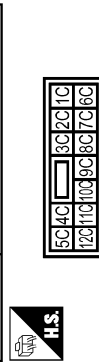
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| Terminal No. | Color of Wire | Signal Name [Specification] |
| 2A           | G             | -                           |
| 5A           | L             | -                           |

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| Connector No.  | M2               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FY-CS        |



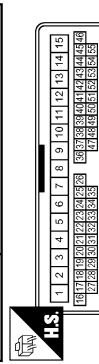
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| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1B           | SB            | -                           |

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| Connector No.  | M3               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS        |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 12C          | R             | -                           |

|                |              |
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| Connector No.  | M5           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15  |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 9            | W             | -                           |
| 10           | B             | -                           |
| 36           | W             | -                           |
| 37           | L             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | M6              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH60MW-CS16-TM4 |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 36           | O             | -                           |
| 44           | G             | -                           |
| 92           | Y             | -                           |

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# AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

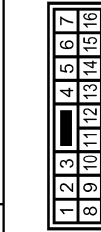
## BOSE AUDIO WITH NAVIGATION SYSTEM

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|----------------|-----------------|
| Connector No.  | M7              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH80MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | V             | -                           |
| 32           | LG            | -                           |
| 33           | SHIELD        | -                           |
| 34           | SB            | -                           |
| 35           | BR            | -                           |
| 36           | Y             | -                           |
| 37           | SHIELD        | -                           |
| 40           | O             | -                           |
| 41           | W             | -                           |
| 42           | SHIELD        | -                           |
| 43           | R             | -                           |

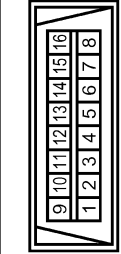
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|----------------|--------------|
| Connector No.  | M25          |
| Connector Name | WIRE TO WIRE |
| Connector Type | MS16MW-CS    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | BR            | -                           |
| 4            | R             | -                           |
| 5            | L             | -                           |
| 6            | LG            | -                           |
| 7            | B             | -                           |
| 10           | P             | -                           |
| 11           | L             | -                           |
| 12           | Y             | -                           |
| 13           | SB            | -                           |

|    |        |   |
|----|--------|---|
| 44 | G      | - |
| 45 | SHIELD | - |
| 46 | SB     | - |
| 58 | O      | - |
| 98 | O      | - |

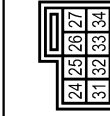
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| Connector No.  | M24                 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW-P            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6            | L             | -                           |
| 14           | P             | -                           |

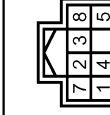
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|----|---|---|
| 14 | R | - |
| 15 | G | - |
| 16 | W | - |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M26                               |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY-TV                        |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24           | P             | -                           |
| 31           | L             | -                           |
| 33           | B             | -                           |

|                |                       |
|----------------|-----------------------|
| Connector No.  | M37                   |
| Connector Name | STEERING ANGLE SENSOR |
| Connector Type | TH08FW-NH             |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | L             | SENSOR1                     |
| 4            | BR            | SENSOR2                     |
| 5            | O             | SENSOR3                     |
| 7            | B             | GND                         |
| 8            | G             | IGN                         |

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# AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                |
|----------------|----------------|
| Connector No.  | M63            |
| Connector Name | CENTER SPEAKER |
| Connector Type | TKQ2EBR        |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | LG            | -                           |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M66                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH                  |



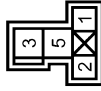
| Terminal No. | Color of Wire | Signal Name [Specification]    |
|--------------|---------------|--------------------------------|
| 28           | R             | VEHICLE SPEED SIGNAL (3-PULSE) |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M67                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH32FW-NH                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56           | L             | CAN-H                       |
| 72           | P             | CAN-L                       |

|                |                    |
|----------------|--------------------|
| Connector No.  | M69                |
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | MS2BEL-M2-1C       |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | W             | -                           |
| 3            | LG            | -                           |
| 5            | O             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | M72                  |
| Connector Name | MULTIFUNCTION SWITCH |
| Connector Type | TH10FW-NH            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 3            | L             | ACC                         |
| 6            | G             | AV COMM (H)                 |
| 8            | R             | AV COMM (L)                 |
| 9            | BR            | SW GND                      |
| 14           | SB            | EJECT SIGNAL                |

|                |                          |
|----------------|--------------------------|
| Connector No.  | M75                      |
| Connector Name | DISPLAY UNIT (WITH NAVI) |
| Connector Type | TH24FW-NH                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 2            | Y             | BATTERY                     |
| 3            | LG            | ACC                         |
| 4            | SHIELD        | SHIELD                      |
| 5            | R             | AUX IMAGE GND               |
| 6            | B             | RGB (G.GREEN) SIGNAL        |
| 7            | V             | SHIELD                      |
| 8            | R             | HP                          |
| 9            | O             | RGE AREA (S) SIGNAL         |
| 11           | L             | COMM (CONT->DISP)           |
| 12           | W             | CAMERA IMAGE SIGNAL         |

|    |    |                     |
|----|----|---------------------|
| 13 | B  | GND                 |
| 14 | B  | SHIELD              |
| 15 | G  | AUX IMAGE SIGNAL    |
| 17 | W  | RGB (R.RED) SIGNAL  |
| 18 | R  | RGB (B.BLUE) SIGNAL |
| 19 | G  | RGB SYNC            |
| 20 | W  | VP                  |
| 21 | B  | SHIELD              |
| 22 | LG | COMM (DISP->CONT)   |
| 23 | B  | SHIELD              |

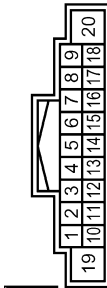
# AV CONTROL UNIT

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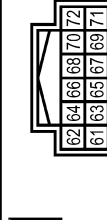
## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M80                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH18FW-GS2                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SB            | AMP_ON SIGNAL               |
| 2            | O             | SOUND SIGNAL FRONT LH (+)   |
| 3            | W             | SOUND SIGNAL FRONT LH (-)   |
| 4            | V             | SOUND SIGNAL REAR LH (+)    |
| 5            | LG            | SOUND SIGNAL REAR LH (-)    |
| 6            | P             | STRG SW A                   |
| 7            | GR            | ACC                         |
| 9            | L             | ILLUMINATION                |
| 10           | B             | SHIELD                      |
| 11           | R             | SOUND SIGNAL FRONT RH (+)   |
| 12           | G             | SOUND SIGNAL FRONT RH (-)   |

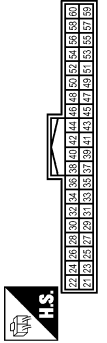
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| Connector No.  | M88                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH12FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 61           | W             | RGB (RED) SIGNAL            |
| 62           | B             | RGB (GREEN) SIGNAL          |
| 63           | R             | RGB (BLUE) SIGNAL           |
| 64           | V             | SHIELD                      |
| 65           | G             | RGB SYNC                    |
| 66           | B             | SHIELD                      |
| 67           | O             | RGB AREA(YS) SIGNAL         |
| 68           | R             | I/P                         |
| 69           | W             | I/P                         |
| 70           | L             | COMM (CONT->DISP)           |
| 71           | LG            | COMM (DISP->CONT)           |

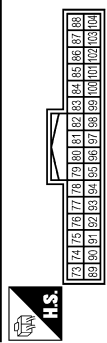
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|----|----|--------------------------|
| 13 | BR | SOUND SIGNAL REAR RH (+) |
| 14 | Y  | SOUND SIGNAL REAR RH (-) |
| 15 | B  | STRG SW GND              |
| 16 | L  | STRG SW B                |
| 18 | Y  | BATTERY                  |
| 20 | B  | GND                      |

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M87                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH40FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 21           | B             | GND                         |
| 22           | Y             | BATTERY                     |
| 23           | B             | GND                         |
| 24           | Y             | BATTERY                     |
| 25           | V             | ACC                         |
| 26           | G             | MICROPHONE VCC              |
| 27           | SHIELD        | MICROPHONE GND              |
| 28           | R             | MICROPHONE SIGNAL           |
| 35           | G             | IGNITION                    |
| 36           | SB            | PARKING BRAKE               |
| 37           | O             | REVERSE                     |

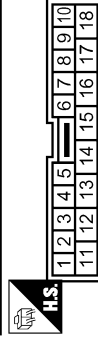
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| Connector No.  | M89                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH62FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 72           | B             | SHIELD                      |
| 73           | R             | I-Pod SOUND SIGNAL LH (+)   |
| 80           | B             | I-Pod SOUND SIGNAL RH (+)   |
| 81           | SHIELD        | SHIELD                      |
| 85           | SB            | EJECT SIGNAL                |
| 86           | SHIELD        | SHIELD                      |
| 87           | W             | AUX SOUND SIGNAL LH (+)     |
| 88           | B             | AUX SOUND SIGNAL LH (-)     |
| 89           | W             | I-Pod SOUND SIGNAL LH (+)   |
| 95           | C             | I-Pod SOUND SIGNAL RH (+)   |
| 96           | C             | I-Pod SOUND SIGNAL RH (-)   |
| 102          | BR            | SW GND                      |
| 103          | R             | AUX SOUND SIGNAL RH (+)     |

|    |    |                          |
|----|----|--------------------------|
| 38 | GR | VEHICLE SPEED (8-PUL SE) |
| 40 | W  | CONNECTION RECOGNITION   |
| 41 | B  | CONTROL SIGNAL 1         |
| 44 | SE | MODE CHANGE SIGNAL       |
| 46 | G  | AV COMM (R)              |
| 49 | R  | AV COMM (L)              |
| 50 | V  | AV COMM (R)              |
| 51 | LG | AV COMM (L)              |
| 52 | L  | CAN-H                    |
| 53 | P  | CAN-L                    |

|                |              |
|----------------|--------------|
| Connector No.  | M106         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10AMP-NS8  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | - [With rear view camera]   |
| 2            | G             | - [With rear view camera]   |
| 3            | SHIELD        | - [With rear view camera]   |

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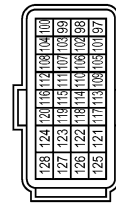
# AV CONTROL UNIT

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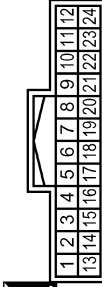
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| Connector No.  | M107               |
| Connector Name | ECM                |
| Connector Type | RH24FGY-R26-R-LH-Z |



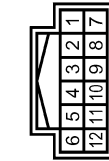
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 113          | P             | VEHCAN-L1                   |
| 114          | L             | VEHCAN-H1                   |

|                |              |
|----------------|--------------|
| Connector No.  | M111         |
| Connector Name | iPod ADAPTER |
| Connector Type | TH24FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | iPod SOUND SIGNAL LH (-)    |
| 2            | B             | iPod SOUND SIGNAL RH (-)    |
| 3            | V             | ACC                         |
| 4            | R             | AV COMM (L)                 |
| 5            | Y             | BATTERY                     |
| 8            | W             | CHARGE POWER                |
| 9            | P             | COMM (iPod ADAPTER->iPod)   |
| 10           | L             | COMM (iPod->iPod ADAPTER)   |
| 11           | O             | ACCESSORY IDENTIFY          |
| 12           | W             | iPod SOUND SIGNAL RH (+)    |
| 13           | W             | iPod SOUND SIGNAL LH (-)    |

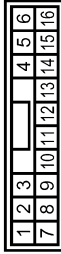
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| Connector No.  | M114         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | G             | -                           |
| 3            | O             | -                           |
| 4            | SHIELD        | -                           |
| 5            | W             | -                           |
| 6            | B             | -                           |
| 7            | R             | -                           |
| 8            | BR            | -                           |
| 9            | W             | -                           |
| 10           | W             | -                           |
| 11           | SHIELD        | -                           |

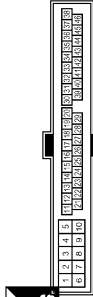
|    |        |                             |
|----|--------|-----------------------------|
| 14 | G      | iPod SOUND SIGNAL RH (-)    |
| 15 | SHIELD | SHIELD                      |
| 16 | G      | AV COMM (H)                 |
| 17 | BR     | GND                         |
| 19 | SHIELD | SHIELD                      |
| 21 | W      | iPod CONNECTION RECOGNITION |
| 22 | G      | ACCESSORY DETECT            |
| 23 | R      | iPod SOUND SIGNAL GND       |
| 24 | B      | iPod SOUND SIGNAL LH (+)    |

|                |                      |
|----------------|----------------------|
| Connector No.  | M112                 |
| Connector Name | iPod SIDE (WITH A/T) |
| Connector Type | PH16FGY              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | iPod SOUND SIGNAL LH (+)    |
| 2            | R             | iPod SOUND SIGNAL GND       |
| 5            | L             | COMM (iPod->iPod ADAPTER)   |
| 6            | P             | COMM (iPod ADAPTER->iPod)   |
| 7            | W             | iPod SOUND SIGNAL RH (+)    |
| 9            | W             | iPod CONNECTION RECOGNITION |
| 10           | BR            | GND                         |
| 12           | W             | CHARGE POWER                |
| 14           | SHIELD        | SHIELD                      |
| 15           | G             | ACCESSORY DETECT            |
| 16           | O             | ACCESSORY IDENTIFY          |

|                |              |
|----------------|--------------|
| Connector No.  | M116         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK38MF-NS10  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 30           | LG            | -                           |
| 31           | W             | -                           |
| 41           | O             | -                           |



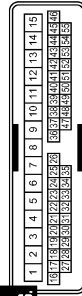
# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

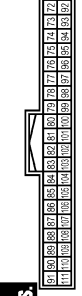
## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |              |
|----------------|--------------|
| Connector No.  | M124         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MH-CS15  |



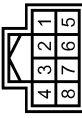
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 36           | R             | -                           |
| 37           | BR            | -                           |

|                |                           |
|----------------|---------------------------|
| Connector No.  | M122                      |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH                 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 90           | P             | CAN-L                       |
| 91           | L             | CAN-H                       |


|                |              |
|----------------|--------------|
| Connector No.  | M155         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | R             | -                           |
| 4            | W             | -                           |
| 5            | B             | -                           |
| 6            | B             | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

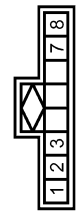
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|-----|---|---|
| 67  | O | - |
| 99  | P | - |
| 100 | L | - |

|                |                 |
|----------------|-----------------|
| Connector No.  | M117            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH03MW-CS16-TM4 |




| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 51           | P             | -                           |
| 52           | V             | -                           |
| 53           | LG            | -                           |
| 54           | B             | -                           |
| 60           | Y             | -                           |
| 61           | SB            | -                           |
| 62           | W             | -                           |
| 63           | G             | -                           |
| 64           | R             | -                           |
| 65           | L             | -                           |
| 66           | BR            | -                           |

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M154                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH A/T) |
| Connector Type | A08FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | SOUND SIGNAL RH (+)         |
| 2            | B             | SOUND SIGNAL LH (+)         |
| 3            | W             | SOUND SIGNAL LH (+)         |
| 7            | G             | AUX IMAGE SIGNAL            |
| 8            | R             | AUX IMAGE GND               |

|                |              |
|----------------|--------------|
| Connector No.  | M145         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH04MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | B             | -                           |
| 4            | W             | -                           |

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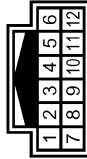
# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

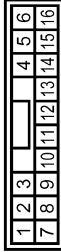
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|----------------|--------------|
| Connector No.  | M181         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             |                             |
| 2            | G             |                             |
| 3            | O             |                             |
| 4            | SHIELD        |                             |
| 5            | GR            |                             |
| 6            | BR            |                             |
| 7            | W             |                             |
| 8            | BR            |                             |
| 9            | L             |                             |
| 10           | W             |                             |
| 11           | SHIELD        |                             |
| 12           |               |                             |

|    |   |   |
|----|---|---|
| 12 | P | - |
|----|---|---|

|                |                      |
|----------------|----------------------|
| Connector No.  | M182                 |
| Connector Name | iPod SIDE (WITH M/T) |
| Connector Type | IP16FGY              |



| Terminal No. | Color of Wire | Signal Name [Specification]     |
|--------------|---------------|---------------------------------|
| 1            | BR            | iPod SOUND SIGNAL LH (+)        |
| 2            | W             | iPod SOUND SIGNAL GND           |
| 5            | L             | COMM (iPod->iPod ADAPTER)       |
| 6            | P             | COMM (iPod ADAPTER->iPod)       |
| 7            | GR            | iPod SOUND SIGNAL RH (+)        |
| 9            | W             | iPod CONNECTION RECOGNITION GND |
| 10           | BR            |                                 |
| 12           | L             | CHARGE POWER                    |
| 14           | SHIELD        | SHIELD                          |
| 15           | G             | ACCESSORY DETECT                |
| 16           | O             | ACCESSORY IDENTIFY              |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M303                              |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY                           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 14           | W             |                             |
| 15           | L             |                             |
| 17           | BR            |                             |

|                |              |
|----------------|--------------|
| Connector No.  | M381         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        |                             |
| 2            | B             |                             |
| 3            | R             |                             |
| 4            | W             |                             |
| 5            | SHIELD        |                             |
| 6            | SHIELD        |                             |
| 7            | G             |                             |
| 8            | R             |                             |

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M382                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH M/T) |
| Connector Type | A08FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             |                             |
| 2            | B             |                             |
| 3            | W             |                             |
| 7            | G             |                             |
| 8            | R             |                             |

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M371                        |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | GT33SF-2/1S-HU              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 105          | -             | FM SUB                      |
| 106          | -             | AM-FM MAIN                  |
| 107          | -             | ANTENNA AMP. ON SIGNAL      |

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M372                        |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | FAKRA-JACK                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 108          | -             | SATELLITE ANTENNA           |
| 109          | SHIELD        | SHIELD                      |

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# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M373                        |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | GT15-1S-HU                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 110          | -             | GPS ANTENNA                 |
| 111          | SHIELD        | SHIELD                      |

|                |              |
|----------------|--------------|
| Connector No.  | M374         |
| Connector Name | WIRE TO WIRE |
| Connector Type | GT16C-1PP-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

|                |                |
|----------------|----------------|
| Connector No.  | M375           |
| Connector Name | WIRE TO WIRE   |
| Connector Type | GT13SC-2/1S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | M376             |
| Connector Name | WIRE TO WIRE     |
| Connector Type | GT13SON-2/1PP-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M377         |
| Connector Name | WIRE TO WIRE |
| Connector Type | GT16C-1S-HU  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

|                |                |
|----------------|----------------|
| Connector No.  | M378           |
| Connector Name | ANTENNA AMP.   |
| Connector Type | GT13SC-1/1S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | ANTENNA AMP. ON SIGNAL      |
| 2            | -             | AM-FM MAIN                  |

|                |                     |
|----------------|---------------------|
| Connector No.  | M379                |
| Connector Name | GLASS ANTENNA (SUB) |
| Connector Type | P01FB-A             |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M380         |
| Connector Name | WIRE TO WIRE |
| Connector Type | GT16-1PP-HU  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

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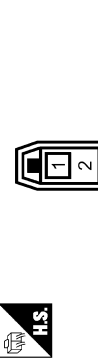
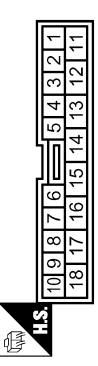
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### BOSE AUDIO WITH NAVIGATION SYSTEM

|  |                                    |   |                                    |
|--|------------------------------------|---|------------------------------------|
| <b>Connector No.</b> M381                  | <b>Connector No.</b> M382          | <b>Connector No.</b> M383                     | <b>Connector No.</b> R1            |
| <b>Connector Name</b> GLASS ANTENNA (MAIN) | <b>Connector Name</b> WIRE TO WIRE | <b>Connector Name</b> SATELLITE RADIO ANTENNA | <b>Connector Name</b> WIRE TO WIRE |
| <b>Connector Type</b> P01FB-A              | <b>Connector Type</b> GT16C-IS-HU  | <b>Connector Type</b> GT16C-IIP-HU            | <b>Connector Type</b> TK06FW-NSS   |

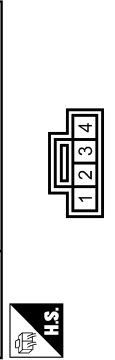
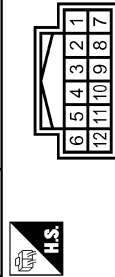
|                                      |                                      |                                      |  |
|--------------------------------------|--------------------------------------|--------------------------------------|--|
| <b>Terminal No.</b> 1                | <b>Terminal No.</b> 1                | <b>Terminal No.</b> 1                | <b>Terminal No.</b> 1  |
| <b>Color of Wire</b> -               | <b>Color of Wire</b> -               | <b>Color of Wire</b> -               | <b>Color of Wire</b> R                                       |
| <b>Signal Name [Specification]</b> - | <b>Signal Name [Specification]</b> - | <b>Signal Name [Specification]</b> - | <b>Signal Name [Specification]</b> - [With rear view camera] |
|                                      |                                      |                                      | <b>Terminal No.</b> 2  |
|                                      |                                      |                                      | <b>Color of Wire</b> G                                       |
|                                      |                                      |                                      | <b>Signal Name [Specification]</b> - [With rear view camera] |
|                                      |                                      |                                      | <b>Terminal No.</b> 3  |
|                                      |                                      |                                      | <b>Color of Wire</b> SHIELD                                  |
|                                      |                                      |                                      | <b>Signal Name [Specification]</b> -                         |



|                                    |                                    |                                  |
|------------------------------------|------------------------------------|----------------------------------|
| <b>Connector No.</b> R2            | <b>Connector No.</b> R11           | <b>Connector No.</b> R17         |
| <b>Connector Name</b> WIRE TO WIRE | <b>Connector Name</b> WIRE TO WIRE | <b>Connector Name</b> MICROPHONE |
| <b>Connector Type</b> TH12PW-NH    | <b>Connector Type</b> TH12MW-NH    | <b>Connector Type</b> TK06FW     |

|                                      |                                      |  |   |
|--------------------------------------|--------------------------------------|--|---|
| <b>Terminal No.</b> 3                | <b>Terminal No.</b> 3                | <b>Terminal No.</b> 1                                | <b>Terminal No.</b> 1                             |
| <b>Color of Wire</b> SHIELD          | <b>Color of Wire</b> SHIELD          | <b>Color of Wire</b> R                               | <b>Color of Wire</b> R                            |
| <b>Signal Name [Specification]</b> - | <b>Signal Name [Specification]</b> - | <b>Signal Name [Specification]</b> MICROPHONE SIGNAL | <b>Signal Name [Specification]</b> SHIELD         |
|                                      |                                      |  | <b>Terminal No.</b> 2                             |
|                                      |                                      |  | <b>Color of Wire</b> SHIELD                       |
|                                      |                                      |  | <b>Signal Name [Specification]</b> SHIELD         |
|                                      |                                      |  | <b>Terminal No.</b> 4                             |
|                                      |                                      |  | <b>Color of Wire</b> G                            |
|                                      |                                      |  | <b>Signal Name [Specification]</b> MICROPHONE VCC |



## Fail-Safe

When the ambient temperature becomes extremely low or extremely high, or when HDD is malfunctioning, AV control unit displays the message and limits the AV control unit function.

### FAIL-SAFE CONDITIONS

- When the ambient temperature is -20°C (-4°F) or lower, or when it is 70°C (158°F) or higher
- when HDD is malfunctioning

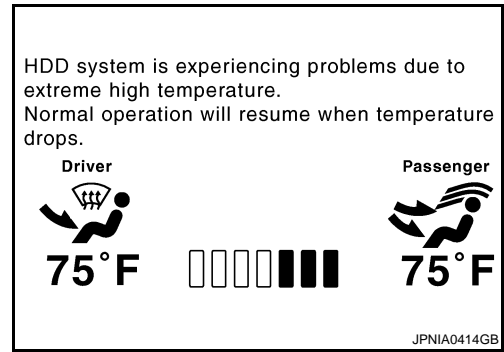
# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## Display

The messages displayed on fail-safe conditions are as shown below:



| Fail-safe mode               | Display (display of the fail-safe condition)  |
|------------------------------|---|
| When HDD temperature is low  | HDD system is experiencing problems due to extreme low temperature. Normal operation will resume when temperature rises.  |
| When HDD temperature is high | HDD system is experiencing problems due to extreme high temperature. Normal operation will resume when temperature drops. |
| When HDD is malfunctioning   | HDD system is not functioning. Please contact your dealer for assistance.   |

## DESCRIPTION OF CONTROLS

| Function              |           | When Fail-safe Function is activated   |
|-----------------------|-----------|--|
| Air conditioner       | Operation | Only multifunction switch (preset switch) can be operated.   |
|                       | Display   | <ul style="list-style-type: none"> <li>• LED of multifunction switch (preset switch) illuminates.</li> <li>• Aimed temperature, blow angle, and flow rate are displayed in simplified mode.</li> </ul> |
| Audio                 | Operation | Only ON/OFF and volume control operations by multifunction switch (preset switch) are possible.  |
|                       | Display   | No display ("Fail-safe mode" is displayed)   |
| Camera                | Operation | Image tone cannot be controlled.   |
|                       | Display   | Cannot be superimposed. (warning display, tone control display)  |
| Hands-free phone      | Operation | Cannot be operated.  |
| Navigation            | Operation | Cannot be operated.  |
| Self diagnosis        |           | The display in simplified mode of fail-safe condition  |
| CONSULT-III diagnosis |           | Cannot be operated.  |

### Ability Operation Mode

There is an ability operation mode for Fail-safes due to low or high ambient temperature.

If HDD data can be read, fail-safe is shown, then normal displays are displayed only for functions which can be operated.

### RELEASE CONDITIONS OF FAIL-SAFE

Fail-safe is released on following conditions and normal mode is restored.

#### When The Temperature of HDD Is Low Or High

If the ambient temperature becomes out of fail-safe condition range, normal mode is restored.

#### When HDD Is Malfunctioning

If the malfunction disappears, normal mode is restored.

#### NOTE:

- If fail-safe mode due to HDD malfunction is seen continuously, replace AV control unit.
- If fail-safe mode due to HDD malfunction is seen temporarily, check the "Error History" of Confirmation/Adjustment mode. If this is normal, then continue the normal operation, observing the function. (It might be a temporary malfunction of HDD.)

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## DTC Index

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### SELF-DIAGNOSIS RESULTS DISPLAY ITEM

| DTC                              | Display item  | Refer to                                      |
|----------------------------------|---|---|
| U1000                            | CAN COMM CIRCUIT [U1000]  | <a href="#">AV-387, "Diagnosis Procedure"</a> |
| U1010                            | CONTROL UNIT (CAN) [1010]   | <a href="#">AV-388, "Diagnosis Procedure"</a> |
| U1310                            | CONTROL UNIT (AV) [U1310]   | <a href="#">AV-389, "DTC Logic"</a>           |
| U1200                            | Cont Unit FLASH-ROM [1200]  | <a href="#">AV-390, "DTC Logic"</a>           |
| U1201                            | GYRO NO CONN [1201]   | <a href="#">AV-391, "DTC Logic"</a>           |
| U1216                            | CAN CONT [U1216]  | <a href="#">AV-392, "DTC Logic"</a>           |
| U1217                            | BLUETOOTH MODULE CONN [U1217]   | <a href="#">AV-393, "DTC Logic"</a>           |
| U1218                            | HDD-CONN [U1218]  | <a href="#">AV-394, "DTC Logic"</a>           |
| U1219                            | HDD-READ [U1219]  | <a href="#">AV-395, "DTC Logic"</a>           |
| U1220                            | XM SERIAL COMM [U1220]  | <a href="#">AV-396, "DTC Logic"</a>           |
| U121A                            | HDD-WRITE [U121A]   | <a href="#">AV-397, "DTC Logic"</a>           |
| U121B                            | HDD-COMM [U121B]  | <a href="#">AV-398, "DTC Logic"</a>           |
| U121C                            | HDD-ACCESS [U121C]  | <a href="#">AV-399, "DTC Logic"</a>           |
| U121D                            | DSP CONN [U121D]  | <a href="#">AV-400, "DTC Logic"</a>           |
| U121E                            | DSP COMM [U121E]  | <a href="#">AV-401, "DTC Logic"</a>           |
| U121F                            | INTERNAL COMM [U121F]   | <a href="#">AV-402, "Diagnosis Procedure"</a> |
| U1204                            | GPS COMM [U1204]  | <a href="#">AV-403, "Diagnosis Procedure"</a> |
| U1205                            | GPS ROM [U1205]   | <a href="#">AV-404, "Diagnosis Procedure"</a> |
| U1206                            | GPS RAM [U1206]   | <a href="#">AV-405, "Diagnosis Procedure"</a> |
| U1207                            | GPS RTC [U1207]   | <a href="#">AV-406, "Diagnosis Procedure"</a> |
| U1243                            | FRONT DISP CONN [U1243]   | <a href="#">AV-407, "Diagnosis Procedure"</a> |
| U1244                            | GPS ANTENNA CONN [U1244]  | <a href="#">AV-409, "Diagnosis Procedure"</a> |
| U1250                            | CAMERA CONT. CONN [U1250]   | <a href="#">AV-410, "Diagnosis Procedure"</a> |
| U1258                            | XM ANTENNA CONN [U1258]   | <a href="#">AV-411, "Diagnosis Procedure"</a> |
| U1300<br>U121F                   | <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• INTERNAL COMM [U121F]</li> </ul>  | <a href="#">AV-412, "Description"</a>         |
| U1300<br>U1240                   | <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• SWITCH CONN [U1240]</li> </ul>  | <a href="#">AV-412, "Description"</a>         |
| U1300<br>U1252                   | <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• REAR CAMERA LAN CONN [U1252]</li> </ul>   | <a href="#">AV-412, "Description"</a>         |
| U1300<br>U1254                   | <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• IPOD CONN [U1254]</li> </ul>  | <a href="#">AV-412, "Description"</a>         |
| U1300<br>U1252<br>U1254          | <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• REAR CAMERA LAN CONN [U1252]</li> <li>• IPOD CONN [U1254]</li> </ul>                                | <a href="#">AV-412, "Description"</a>         |
| U1300<br>U1240<br>U1252<br>U1254 | <ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• SWITCH CONN [U1240]</li> <li>• REAR CAMERA LAN CONN [U1252]</li> <li>• IPOD CONN [U1254]</li> </ul> | <a href="#">AV-412, "Description"</a>         |

# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

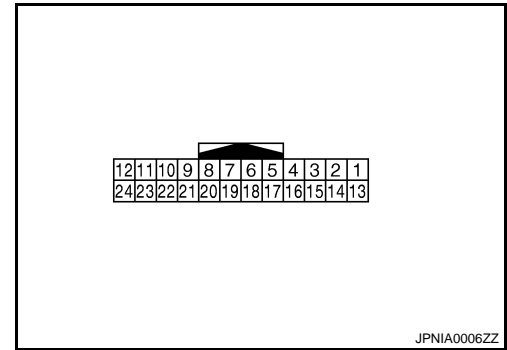
[BOSE AUDIO WITH NAVIGATION]

## DISPLAY UNIT

Reference Value

INFOID:000000004238827

TERMINAL LAYOUT



PHYSICAL VALUES

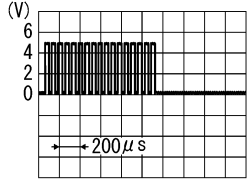
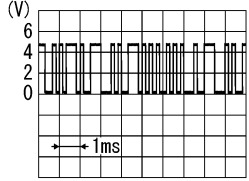
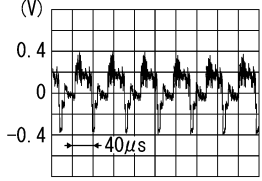
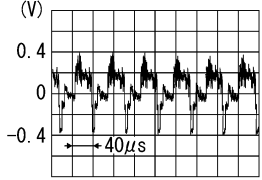
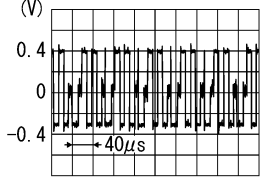
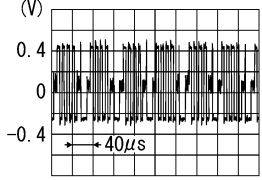
| Terminal (Wire color) |        | Description                          |              | Condition           |   | Reference value (Approx.) |
|-----------------------|--------|--------------------------------------|--------------|---------------------|---|---------------------------|
| +                     | -      | Signal name                          | Input/Output |                     |   |                           |
| 1 (B)                 | Ground | GND                                  | —            | Ignition switch ON  | —   | 0 V                       |
| 2 (Y)                 | Ground | Battery power supply                 | Input        | Ignition switch OFF | —   | Battery voltage           |
| 3 (LG)                | Ground | ACC power supply                     | Input        | Ignition switch ACC | —   | Battery voltage           |
| 5 (R)                 | Ground | AUX image GND                        | —            | Ignition switch ON  | —   | 0 V                       |
| 6 (B)                 | Ground | RGB signal (G: green)                | Input        | Ignition switch ON  | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen. | <p>SKIB2236J</p>          |
| 7                     | —      | Shield                               | —            | —                   | —   | —                         |
| 8 (L)                 | Ground | Horizontal synchronizing (HP) signal | Output       | Ignition switch ON  | —   | <p>SKIB3601E</p>          |

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# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

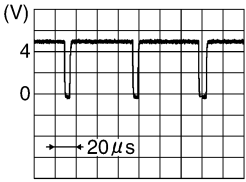
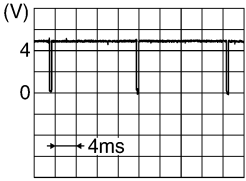
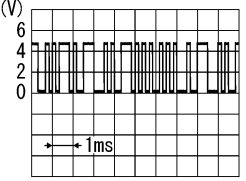
| Terminal<br>(Wire color) |          | Description                         |                  | Condition                              | Reference value<br>(Approx.)  |   |
|--------------------------|----------|-------------------------------------|------------------|--|---|---|
| +                        | -        | Signal name                         | Input/<br>Output |  |   |   |
| 9<br>(Y)                 | Ground   | RGB area (YS) signal                | Input            | Ignition switch ON                     | 5 V   |   |
|                          |          |                                     |                  | At rear view camera image is displayed |  <p style="text-align: right; font-size: small;">PKIB4948J</p> |   |
| 11<br>(P)                | Ground   | Communication signal<br>(CONT→DISP) | Input            | Ignition switch ON                     | When adjusting display brightness.  |  <p style="text-align: right; font-size: small;">PKIB5039J</p>   |
| 12<br>(W)                | Ground   | Camera image signal                 | Input            | Ignition switch ON                     | At rear view camera image is displayed  |  <p style="text-align: right; font-size: small;">SKIB2251J</p>  |
| 13<br>(B)                | Ground   | GND                                 | —                | Ignition switch ON                     | —   | 0 V   |
| 14                       | —        | Shield                              | —                | —                                      | —   | —   |
| 15<br>(G)                | 5<br>(R) | AUX image signal                    | Input            | Ignition switch ON                     | At AUX image is displayed   |  <p style="text-align: right; font-size: small;">SKIB2251J</p> |
| 17<br>(W)                | Ground   | RGB signal (R: red)                 | Input            | Ignition switch ON                     | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.                     |  <p style="text-align: right; font-size: small;">SKIB2238J</p> |
| 18<br>(R)                | Ground   | RGB signal (B: blue)                | Input            | Ignition switch ON                     | Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.                     |  <p style="text-align: right; font-size: small;">SKIB2237J</p> |



# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

| Terminal<br>(Wire color) |        | Description                           |                  | Condition                |                                       | Reference value<br>(Approx.)  |
|--------------------------|--------|---------------------------------------|------------------|--------------------------|---------------------------------------|---|
| +                        | -      | Signal name                           | Input/<br>Output |                          |                                       |   |
| 19<br>(G)                | Ground | RGB synchronizing signal              | Input            | Ignition<br>switch<br>ON | —                                     |  <p>SKIB3603E</p>  |
| 20<br>(GR)               | Ground | Vertical synchronizing (VP)<br>signal | Output           | Ignition<br>switch<br>ON | —                                     |  <p>SKIB3598E</p>  |
| 21                       | —      | Shield                                | —                | —                        | —                                     | —   |
| 22<br>(O)                | Ground | Communication signal<br>(DISP→CONT)   | Output           | Ignition<br>switch<br>ON | When adjusting display<br>brightness. |  <p>PKIB5039J</p> |
| 23                       | —      | Shield                                | —                | —                        | —                                     | —   |

Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM -

INFOID:000000004501729

**NOTE:**

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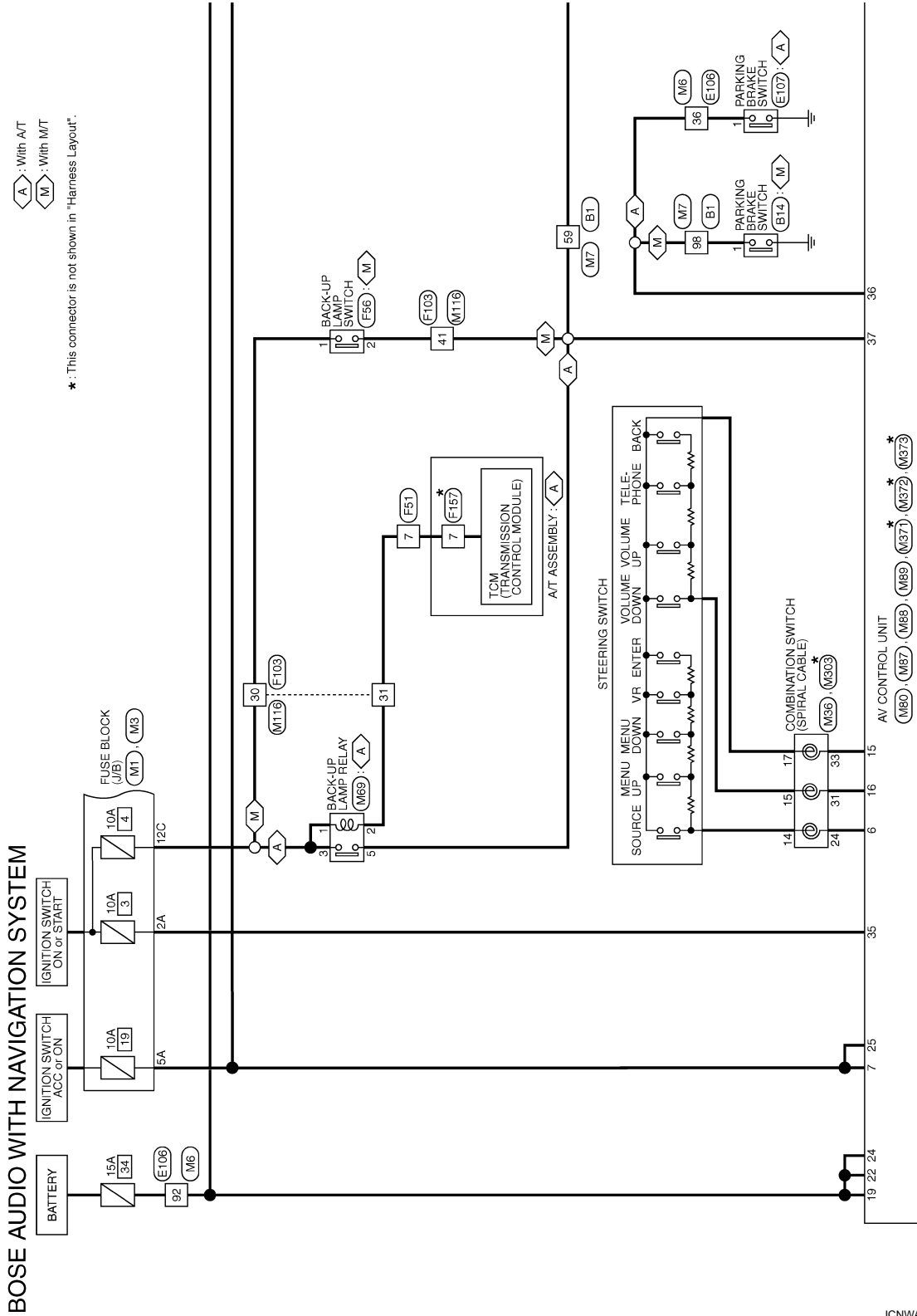
AV

# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.



2008/08/07

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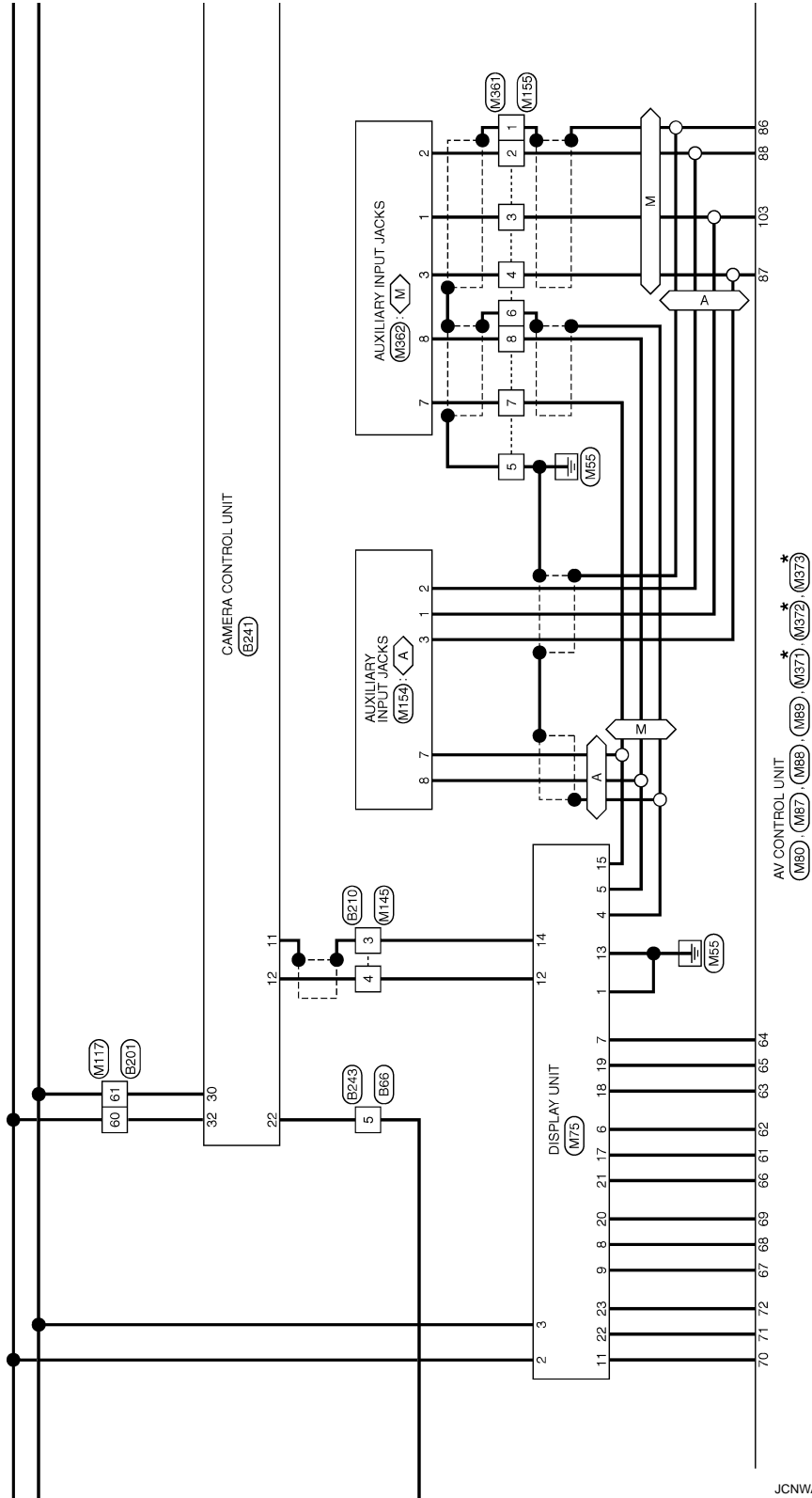
# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

A : With A/T  
M : With M/T

★ : This connector is not shown in "Harness Layout".



JCNWA1769GE

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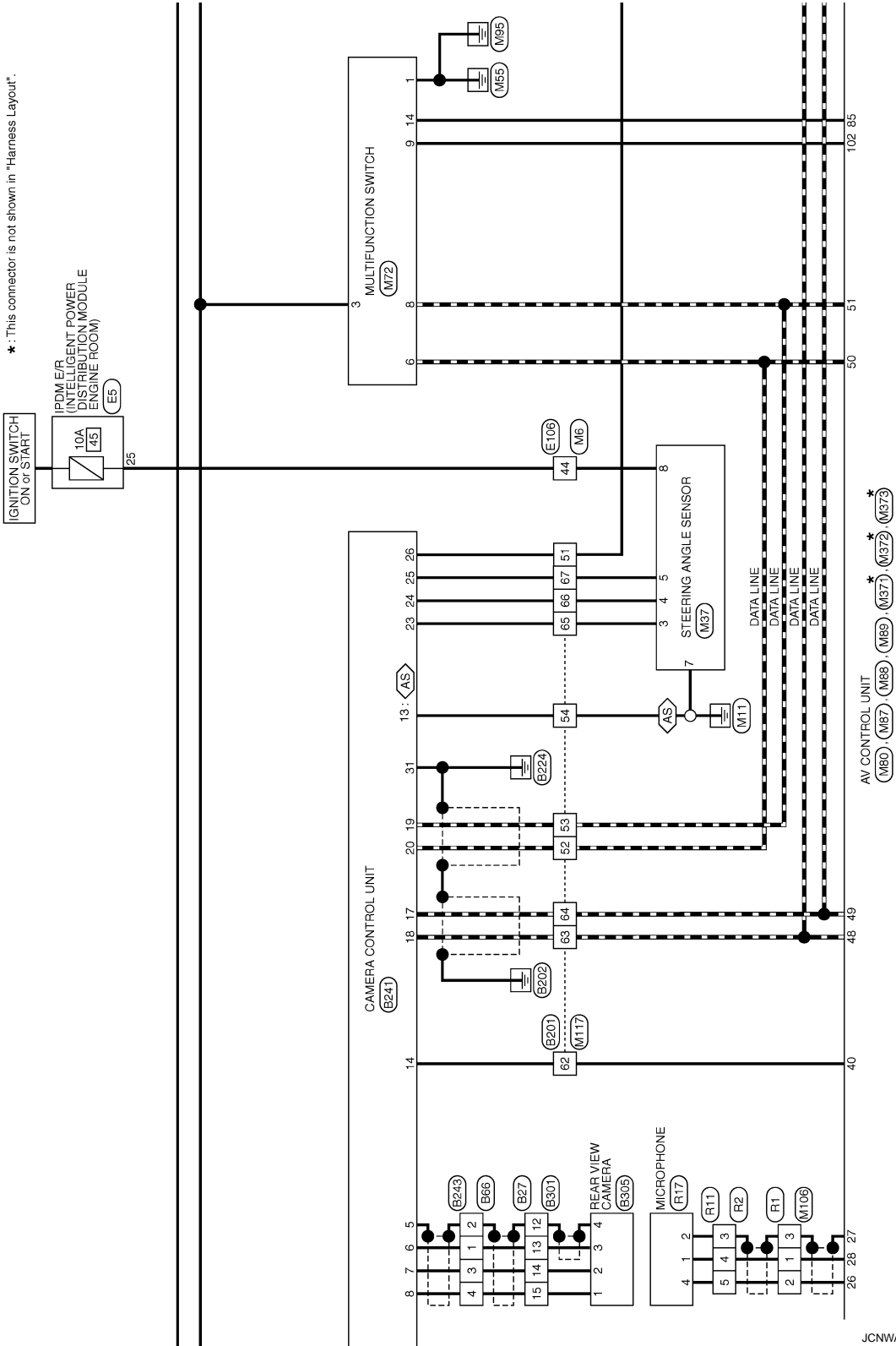
# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

AS : With 4WAS

\*: This connector is not shown in "Harness Layout".



JCNWA1770GE

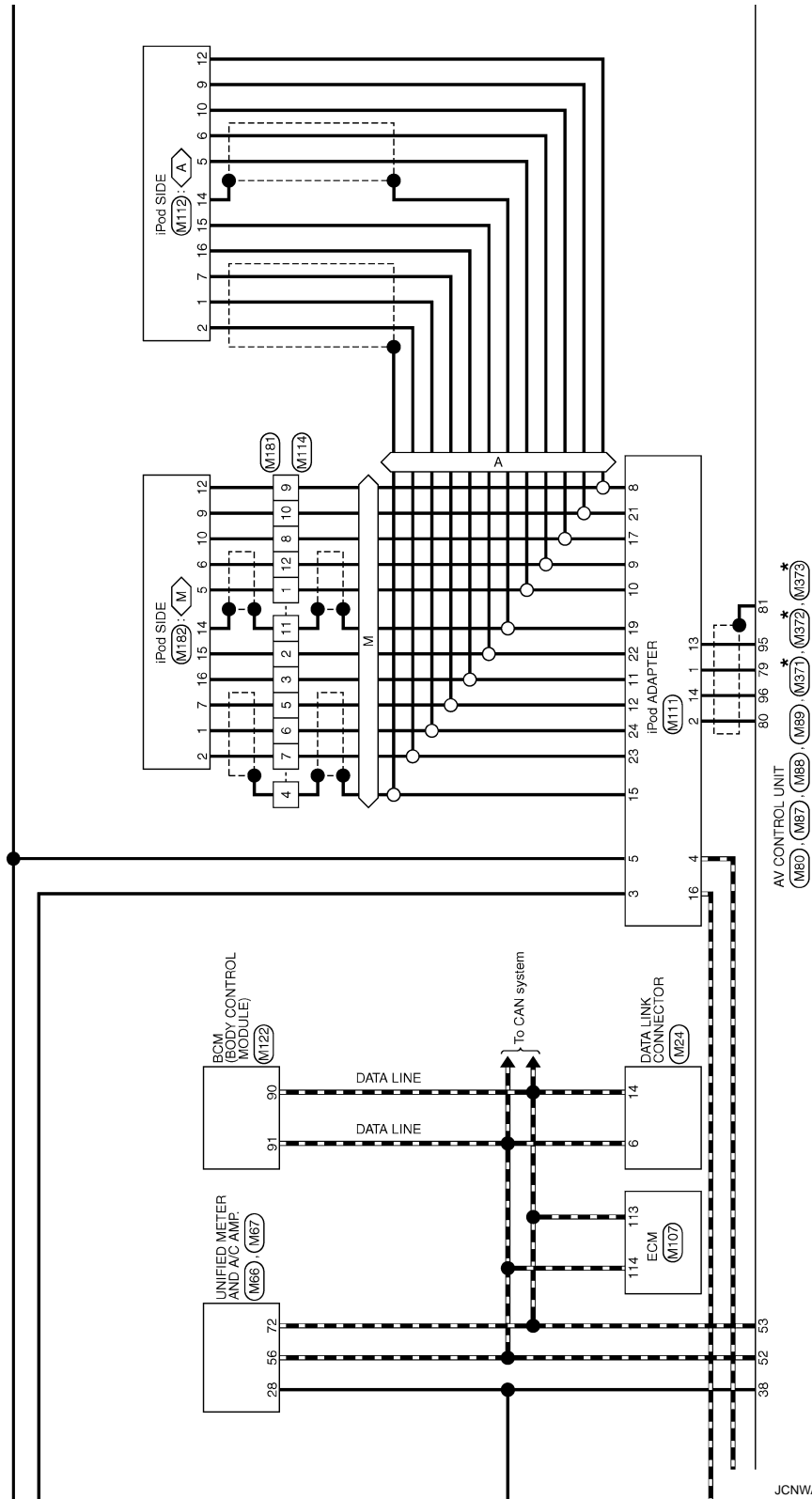
# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

◊ : With A/T  
 ◊ : With M/T

\*: This connector is not shown in "Harness Layout".



JCNWA1771GE

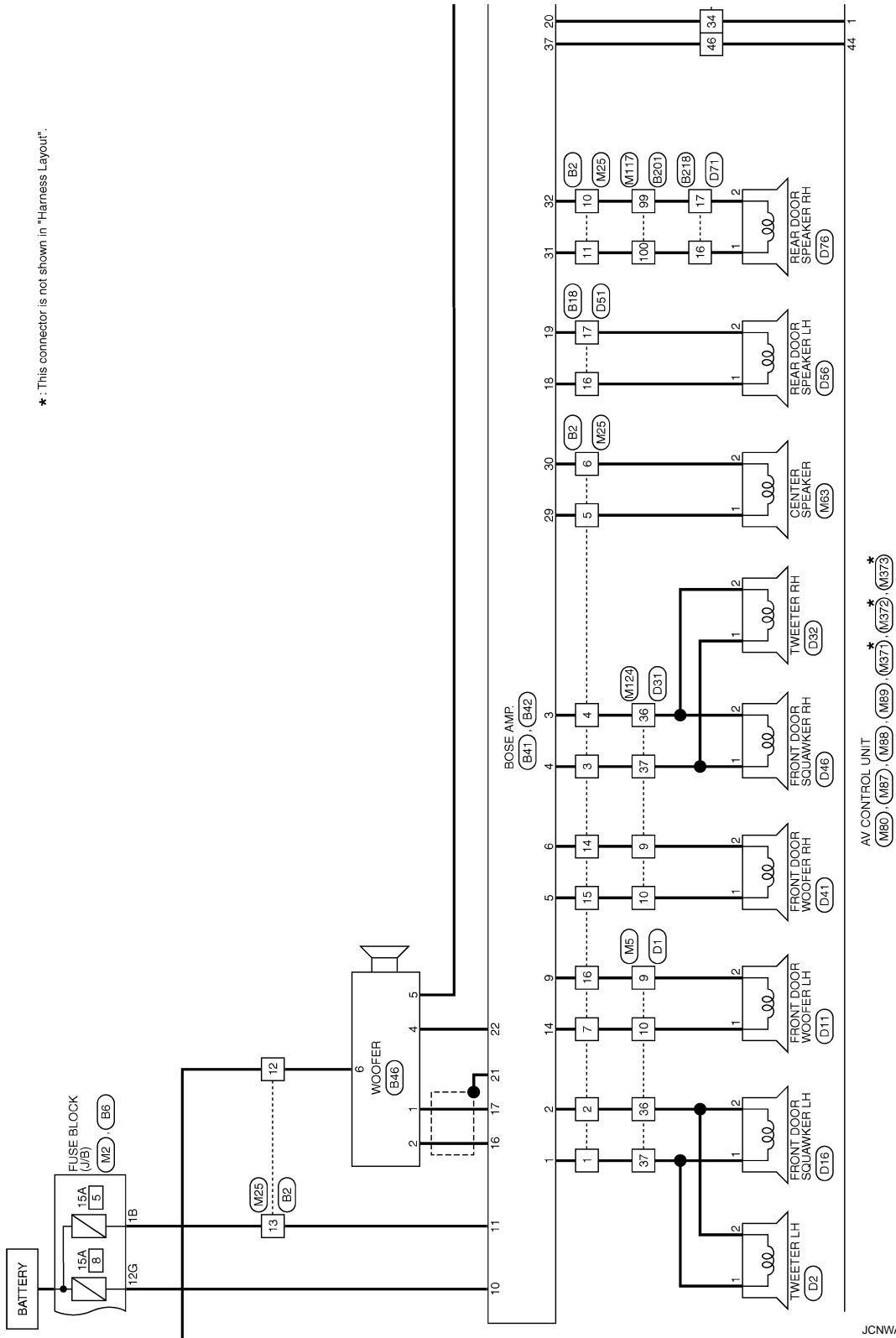
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# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

\*: This connector is not shown in "Harness Layout".



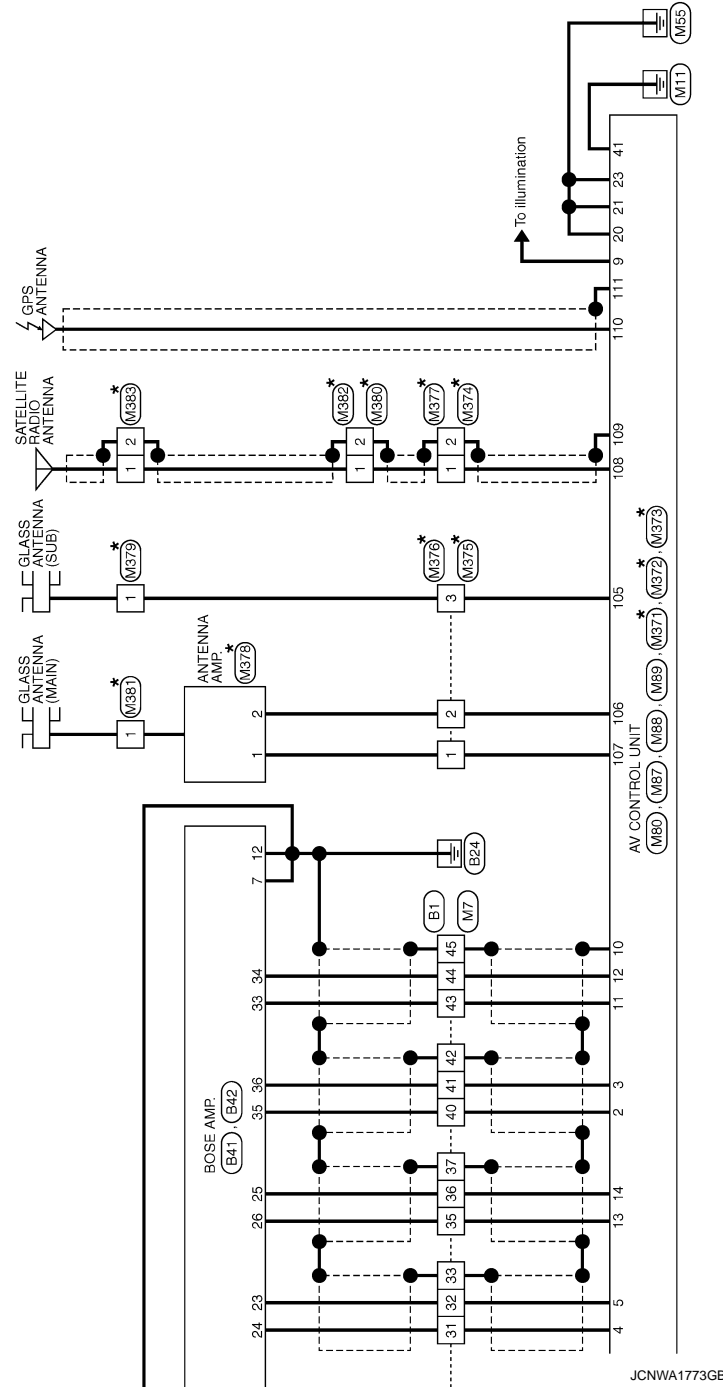
JCNWA1772GE

# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

\*: This connector is not shown in "Harness Layout".



JCNWA1773GE

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# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                 |
|----------------|-----------------|
| Connector No.  | B1              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH8DFW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | V             | -                           |
| 32           | SB            | -                           |
| 33           | SHIELD        | -                           |
| 34           | W             | -                           |
| 35           | BR            | -                           |
| 36           | Y             | -                           |
| 37           | SHIELD        | -                           |
| 40           | P             | -                           |
| 41           | L             | -                           |
| 42           | SHIELD        | -                           |
| 43           | R             | -                           |

|    |        |   |
|----|--------|---|
| 44 | G      | - |
| 45 | SHIELD | - |
| 46 | SE     | - |
| 50 | O      | - |
| 58 | V      | - |

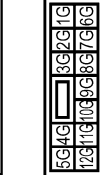


|                |              |
|----------------|--------------|
| Connector No.  | B2           |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16FW-CS    |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | V             | -                           |
| 4            | LG            | -                           |
| 5            | L             | -                           |
| 6            | O             | -                           |
| 7            | B             | -                           |
| 10           | Y             | -                           |
| 11           | LG            | -                           |
| 12           | P             | -                           |
| 13           | GR            | -                           |

|    |   |   |
|----|---|---|
| 14 | R | - |
| 15 | G | - |
| 16 | W | - |

|                |                  |
|----------------|------------------|
| Connector No.  | B6               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FBR-CS       |



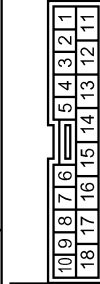
|              |     |   |   |
|--------------|-----|---|---|
| Terminal No. | 12G | Y | - |
|--------------|-----|---|---|

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| Connector No.  | B14                             |
| Connector Name | PARKING BRAKE SWITCH (WITH M/T) |
| Connector Type | P01FB-A                         |



|              |   |   |   |
|--------------|---|---|---|
| Terminal No. | 1 | V | - |
|--------------|---|---|---|

|                |              |
|----------------|--------------|
| Connector No.  | B18          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10PW-NS8   |



|              |    |   |   |
|--------------|----|---|---|
| Terminal No. | 16 | L | - |
| 17           | P  | - | - |

|                |              |
|----------------|--------------|
| Connector No.  | B27          |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MP-CS    |



|              |    |        |   |
|--------------|----|--------|---|
| Terminal No. | 12 | SHIELD | - |
| 13           | B  | -      | - |
| 14           | W  | -      | - |
| 15           | R  | -      | - |

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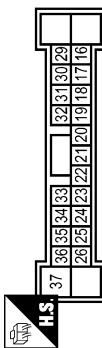
# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |              |
|----------------|--------------|
| Connector No.  | B41          |
| Connector Name | BOSE AMP.    |
| Connector Type | SCA18FB-SG44 |



| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 16           | SB            | SOUND SIGNAL WOOFER (-)       |
| 17           | V             | SOUND SIGNAL WOOFER (-)       |
| 18           | L             | SOUND SIGNAL REAR DOOR LH (+) |
| 19           | P             | SOUND SIGNAL REAR DOOR LH (-) |
| 20           | W             | AMP. ON SIGNAL                |
| 21           | SHIELD        | SHIELD                        |
| 22           | GR            | WOOFER AMP. ON SIGNAL         |
| 23           | SB            | SOUND SIGNAL REAR LH (-)      |
| 24           | V             | SOUND SIGNAL REAR LH (+)      |
| 25           | Y             | SOUND SIGNAL REAR RH (-)      |
| 26           | BR            | SOUND SIGNAL REAR RH (+)      |

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| Connector No.  | B46       |
| Connector Name | WOOFER    |
| Connector Type | MS08FB-CS |

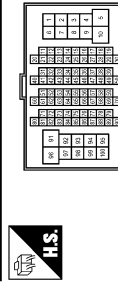


| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | V             | SOUND SIGNAL WOOFER (-)     |
| 2            | SB            | SOUND SIGNAL WOOFER (+)     |
| 4            | GR            | WOOFER AMP. ON SIGNAL       |
| 5            | B             | GND                         |
| 6            | P             | BATTERY                     |

|    |    |                               |
|----|----|-------------------------------|
| 29 | L  | SOUND SIGNAL CENTER (+)       |
| 30 | O  | SOUND SIGNAL CENTER (-)       |
| 31 | LG | SOUND SIGNAL REAR DOOR RH (+) |
| 32 | V  | SOUND SIGNAL REAR DOOR RH (-) |
| 33 | R  | SOUND SIGNAL FRONT RH (+)     |
| 34 | G  | SOUND SIGNAL FRONT RH (-)     |
| 35 | P  | SOUND SIGNAL FRONT LH (+)     |
| 36 | L  | SOUND SIGNAL FRONT LH (-)     |
| 37 | SB | MODE CHANGE SIGNAL            |

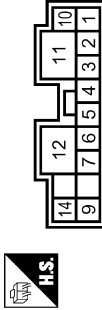
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | FRONT DOOR SQUAWKER LH (+)  |
| 2            | W             | FRONT DOOR SQUAWKER LH (-)  |
| 3            | LG            | FRONT DOOR SQUAWKER RH (-)  |
| 4            | V             | FRONT DOOR SQUAWKER RH (+)  |
| 5            | G             | FRONT DOOR WOOFER RH (+)    |
| 6            | R             | FRONT DOOR WOOFER RH (-)    |
| 7            | B             | GND                         |
| 9            | Y             | FRONT DOOR WOOFER LH (-)    |
| 10           | W             | BATTERY                     |
| 11           | GR            | BATTERY                     |
| 12           | B             | GND                         |

|                |                   |
|----------------|-------------------|
| Connector No.  | E201              |
| Connector Name | WIRE TO WIRE      |
| Connector Type | TH80FW-CS (P-TM4) |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 51           | V             | -                           |
| 52           | G             | -                           |
| 53           | R             | -                           |
| 54           | B             | -                           |
| 60           | L             | -                           |
| 61           | LG            | -                           |
| 62           | P             | -                           |
| 63           | Y             | -                           |
| 64           | BR            | -                           |
| 65           | W             | -                           |
| 66           | R             | -                           |

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| Connector No.  | B42          |
| Connector Name | BOSE AMP.    |
| Connector Type | SCA12FB-SJA2 |



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| 87  | O |
| 89  | P |
| 100 | L |

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| 14 | B |
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|--------------------------|
| FRONT DOOR WOOFER LH (+) |
|--------------------------|

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# DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

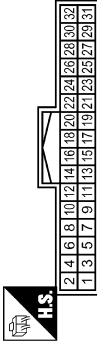
|                |              |
|----------------|--------------|
| Connector No.  | B210         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



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| Connector No.  | B218         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NS    |



|                |                     |
|----------------|---------------------|
| Connector No.  | B241                |
| Connector Name | CAMERA CONTROL UNIT |
| Connector Type | TH03FW-NH           |



|    |    |                         |
|----|----|-------------------------|
| 20 | G  | AV COMM (H)             |
| 22 | GR | REVERSE                 |
| 23 | W  | SENSOR SIGNAL 1         |
| 24 | R  | SENSOR SIGNAL 2         |
| 25 | O  | SENSOR SIGNAL 3         |
| 26 | V  | VEHICLE SPEED (3-PULSE) |
| 30 | LG | ACC                     |
| 31 | B  | GND                     |
| 32 | L  | BATTERY                 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | SHIELD        | -                           |
| 4            | W             | -                           |

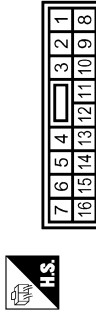
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | L             | -                           |
| 17           | P             | -                           |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 5            | SHIELD        | SHIELD                      |
| 6            | B             | CAMERA IMAGE SIGNAL         |
| 7            | W             | GND                         |
| 8            | R             | CAMERA ON SIGNAL            |
| 11           | SHIELD        | SHIELD                      |
| 12           | W             | CAMERA IMAGE SIGNAL         |
| 13           | B             | CONTROL SIGNAL              |
| 14           | P             | CONNECTION RECOGNITION      |
| 17           | BR            | AV COMM (L)                 |
| 18           | Y             | AV COMM (H)                 |
| 19           | R             | AV COMM (L)                 |

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| Connector No.  | B243         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



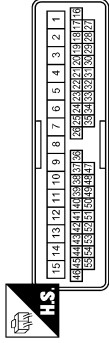
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|----------------|--------------|
| Connector No.  | B301         |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16FW-CS    |



|                |                  |
|----------------|------------------|
| Connector No.  | B305             |
| Connector Name | REAR VIEW CAMERA |
| Connector Type | TH03MW-NH        |



|                |              |
|----------------|--------------|
| Connector No.  | D1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | -                           |
| 2            | SHIELD        | -                           |
| 3            | W             | -                           |
| 4            | R             | -                           |
| 5            | GR            | -                           |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 12           | SHIELD        | -                           |
| 13           | Y             | -                           |
| 14           | L             | -                           |
| 15           | R             | -                           |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | CAMERA ON SIGNAL            |
| 2            | L             | GND                         |
| 3            | Y             | CAMERA IMAGE SIGNAL         |
| 4            | SHIELD        | SHIELD                      |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 35           | W             | -                           |
| 37           | L             | -                           |

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|                |            |
|----------------|------------|
| Connector No.  | D2         |
| Connector Name | TWEETER LH |
| Connector Type | TK02MBF-P  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | D11                  |
| Connector Name | FRONT DOOR WOOFER LH |
| Connector Type | NS02FW-CS            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | G             | -                           |
| 2            | R             | -                           |

|                |                        |
|----------------|------------------------|
| Connector No.  | D16                    |
| Connector Name | FRONT DOOR SQUAWKER LH |
| Connector Type | TK02FBR                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D31          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-CS/5  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 36           | W             | -                           |
| 37           | L             | -                           |

|                |            |
|----------------|------------|
| Connector No.  | D32        |
| Connector Name | TWEETER RH |
| Connector Type | TK02MBF-P  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | D41                  |
| Connector Name | FRONT DOOR WOOFER RH |
| Connector Type | NS02FW-CS            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | G             | -                           |
| 2            | R             | -                           |

|                |                        |
|----------------|------------------------|
| Connector No.  | D46                    |
| Connector Name | FRONT DOOR SQUAWKER RH |
| Connector Type | TK02FBR                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D51          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MW-NS8   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | LG            | -                           |
| 17           | Y             | -                           |








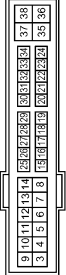

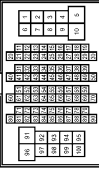



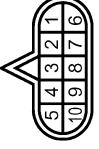


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[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|   |  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
|---|--|------|----------------|--|----------------|-------------------|--|--------------|----|---------------|---------------|-----------------------------|---|-----------------------------|----|-----------------------------|---|---|---|
| <table border="1"> <tr><td>Connector No.</td><td>D36</td></tr> <tr><td>Connector Name</td><td>REAR DOOR SPEAKER LH</td></tr> <tr><td>Connector Type</td><td>NS02FBR-CS</td></tr> </table>     | Connector No.  | D36  | Connector Name | REAR DOOR SPEAKER LH   | Connector Type | NS02FBR-CS        | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>LG</td><td>Y</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>                                  | Terminal No. | 1  | 2             | Color of Wire | LG                          | Y | Signal Name [Specification] | -  | -                           |   |   |   |
| Connector No.   | D36  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | REAR DOOR SPEAKER LH   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | NS02FBR-CS   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 1  | 2    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | LG   | Y    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  | -    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>D71</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TK10MW-NSS</td></tr> </table>    | Connector No.  | D71  | Connector Name | WIRE TO WIRE   | Connector Type | TK10MW-NSS        | <table border="1"> <tr><td>Terminal No.</td><td>16</td><td>17</td></tr> <tr><td>Color of Wire</td><td>L</td><td>P</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>                                 | Terminal No. | 16 | 17            | Color of Wire | L                           | P | Signal Name [Specification] | -  | -                           |   |   |   |
| Connector No.   | D71  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | WIRE TO WIRE   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | TK10MW-NSS   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 16   | 17   |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | L  | P    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  | -    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>D76</td></tr> <tr><td>Connector Name</td><td>REAR DOOR SPEAKER RH</td></tr> <tr><td>Connector Type</td><td>NS02FBR-CS</td></tr> </table>     | Connector No.  | D76  | Connector Name | REAR DOOR SPEAKER RH   | Connector Type | NS02FBR-CS        | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>L</td><td>P</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>                                   | Terminal No. | 1  | 2             | Color of Wire | L                           | P | Signal Name [Specification] | -  | -                           |   |   |   |
| Connector No.   | D76  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | REAR DOOR SPEAKER RH   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | NS02FBR-CS   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 1  | 2    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | L  | P    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  | -    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>E5</td></tr> <tr><td>Connector Name</td><td>IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)</td></tr> <tr><td>Connector Type</td><td>TH20FY-CS/2-M4-1V</td></tr> </table>   | Connector No.  | E5   | Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) | Connector Type | TH20FY-CS/2-M4-1V | <table border="1"> <tr><td>Terminal No.</td><td>25</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>  | Terminal No. | 25 | Color of Wire | G             | Signal Name [Specification] | - |                             |    |                             |   |   |   |
| Connector No.   | E5   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | TH20FY-CS/2-M4-1V  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 25   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | G  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>E106</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH80FW-CS16-TM4</td></tr> </table>     | Connector No.  | E106 | Connector Name | WIRE TO WIRE   | Connector Type | TH80FW-CS16-TM4   | <table border="1"> <tr><td>Terminal No.</td><td>36</td><td>44</td><td>92</td></tr> <tr><td>Color of Wire</td><td>O</td><td>G</td><td>LG</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td><td>-</td></tr> </table> | Terminal No. | 36 | 44            | 92            | Color of Wire               | O | G                           | LG | Signal Name [Specification] | - | - | - |
| Connector No.   | E106   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | WIRE TO WIRE   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | TH80FW-CS16-TM4  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 36   | 44   | 92             |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | O  | G    | LG             |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  | -    | -              |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>E107</td></tr> <tr><td>Connector Name</td><td>PARKING BRAKE SWITCH (WITH A/T)</td></tr> <tr><td>Connector Type</td><td>TB01FW</td></tr> </table>                                     | Connector No.  | E107 | Connector Name | PARKING BRAKE SWITCH (WITH A/T)                              | Connector Type | TB01FW            | <table border="1"> <tr><td>Terminal No.</td><td>1</td></tr> <tr><td>Color of Wire</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>   | Terminal No. | 1  | Color of Wire | O             | Signal Name [Specification] | - |                             |    |                             |   |   |   |
| Connector No.   | E107   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | PARKING BRAKE SWITCH (WITH A/T)                              |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | TB01FW   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 1  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | O  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>F51</td></tr> <tr><td>Connector Name</td><td>A/T ASSEMBLY</td></tr> <tr><td>Connector Type</td><td>RK10FG-DGY</td></tr> </table>     | Connector No.  | F51  | Connector Name | A/T ASSEMBLY   | Connector Type | RK10FG-DGY        | <table border="1"> <tr><td>Terminal No.</td><td>7</td></tr> <tr><td>Color of Wire</td><td>R</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>   | Terminal No. | 7  | Color of Wire | R             | Signal Name [Specification] | - |                             |    |                             |   |   |   |
| Connector No.   | F51  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | A/T ASSEMBLY   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | RK10FG-DGY   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 7  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | R  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>F56</td></tr> <tr><td>Connector Name</td><td>BACK-UP LAMP SWITCH</td></tr> <tr><td>Connector Type</td><td>RK02FB</td></tr> </table>    | Connector No.  | F56  | Connector Name | BACK-UP LAMP SWITCH  | Connector Type | RK02FB            | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>R</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>                                   | Terminal No. | 1  | 2             | Color of Wire | R                           | O | Signal Name [Specification] | -  | -                           |   |   |   |
| Connector No.   | F56  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | BACK-UP LAMP SWITCH  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | RK02FB   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 1  | 2    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | R  | O    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  | -    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |

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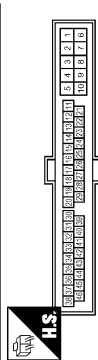
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## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |              |
|----------------|--------------|
| Connector No.  | F103         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK36FW-NS10  |



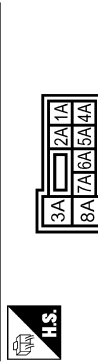
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 30           | R             | -                           |
| 31           | R             | -                           |
| 41           | O             | -                           |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | F157                              |
| Connector Name | TOM (TRANSMISSION CONTROL MODULE) |
| Connector Type | SPT0FG                            |



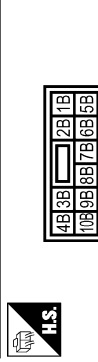
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 7            | L             | REV LAMP RLY                |

|                |                  |
|----------------|------------------|
| Connector No.  | M1               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS36FW-M2        |



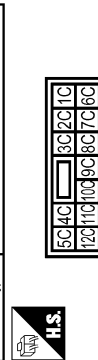
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 2A           | G             | -                           |
| 5A           | L             | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | M2               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FY-CS        |



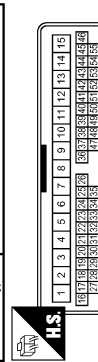
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| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1B           | SB            | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | M3               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS        |



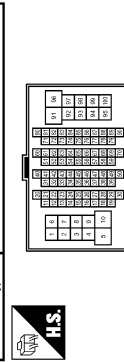
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 12C          | R             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M5           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15  |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 9            | W             | -                           |
| 10           | B             | -                           |
| 36           | W             | -                           |
| 37           | L             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | M6              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH60MW-CS16-7M4 |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 36           | O             | -                           |
| 44           | G             | -                           |
| 92           | Y             | -                           |

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|----------------|-----------------|
| Connector No.  | M7              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH80MW-CS16-TM4 |



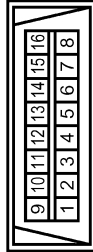
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | V             | -                           |
| 32           | LG            | -                           |
| 33           | SHIELD        | -                           |
| 34           | SB            | -                           |
| 35           | BR            | -                           |
| 36           | Y             | -                           |
| 37           | SHIELD        | -                           |
| 40           | O             | -                           |
| 41           | W             | -                           |
| 42           | SHIELD        | -                           |
| 43           | R             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M25          |
| Connector Name | WIRE TO WIRE |
| Connector Type | MS16MW-CS    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | BR            | -                           |
| 4            | R             | -                           |
| 5            | L             | -                           |
| 6            | LG            | -                           |
| 7            | B             | -                           |
| 10           | P             | -                           |
| 11           | L             | -                           |
| 12           | Y             | -                           |
| 13           | SB            | -                           |

|                |                     |
|----------------|---------------------|
| Connector No.  | M24                 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | ED16FW-P            |



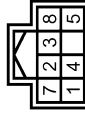
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6            | L             | -                           |
| 14           | P             | -                           |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M86                               |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY-TV                        |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24           | P             | -                           |
| 31           | L             | -                           |
| 33           | B             | -                           |

|                |                       |
|----------------|-----------------------|
| Connector No.  | M37                   |
| Connector Name | STEERING ANGLE SENSOR |
| Connector Type | TH08FPY-NH            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | L             | SENSOR1                     |
| 4            | BR            | SENSOR2                     |
| 5            | O             | SENSOR3                     |
| 7            | B             | GND                         |
| 8            | G             | IGN                         |

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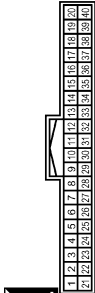
### BOSE AUDIO WITH NAVIGATION SYSTEM

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| Connector No.  | M63            |
| Connector Name | CENTER SPEAKER |
| Connector Type | TK02EBR        |



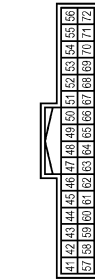
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | LG            | -                           |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M66                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH                  |



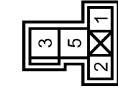
| Terminal No. | Color of Wire | Signal Name [Specification]    |
|--------------|---------------|--------------------------------|
| 28           | R             | VEHICLE SPEED SIGNAL (8-PULSE) |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M67                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH02FW-NH                  |



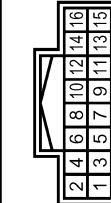
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56           | L             | CAN-H                       |
| 72           | P             | CAN-L                       |

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| Connector No.  | M69                |
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | MS02LE-M2-1C       |



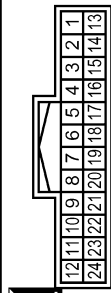
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | W             | -                           |
| 3            | LG            | -                           |
| 5            | O             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | M72                  |
| Connector Name | MULTIFUNCTION SWITCH |
| Connector Type | TH10FW-NH            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 3            | L             | ACC                         |
| 6            | G             | AV COMM (H)                 |
| 8            | R             | AV COMM (L)                 |
| 9            | BR            | SW GND                      |
| 14           | SB            | EJECT SIGNAL                |

|                |                          |
|----------------|--------------------------|
| Connector No.  | M75                      |
| Connector Name | DISPLAY UNIT (WITH NAVI) |
| Connector Type | TH24FW-NH                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 2            | Y             | BATTERY ACC                 |
| 3            | LG            | ACC                         |
| 4            | SHIELD        | SHIELD                      |
| 5            | R             | AUX IMAGE GND               |
| 6            | B             | RGB (G.GREEN) SIGNAL        |
| 7            | V             | SHIELD                      |
| 8            | R             | HP                          |
| 9            | O             | RGB AREA (S) SIGNAL         |
| 11           | L             | COMM (CONT->DISP)           |
| 12           | W             | CAMERA IMAGE SIGNAL         |

|    |    |                     |
|----|----|---------------------|
| 13 | B  | GND                 |
| 14 | B  | SHIELD              |
| 15 | G  | AUX IMAGE SIGNAL    |
| 17 | W  | RGB (R.RED) SIGNAL  |
| 18 | R  | RGB (B.BLUE) SIGNAL |
| 19 | G  | RGB SYNC            |
| 20 | W  | VP                  |
| 21 | B  | SHIELD              |
| 22 | LG | COMM (DISP->CONT)   |
| 23 | B  | SHIELD              |

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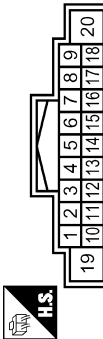
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[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

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|----------------|-----------------------------|
| Connector No.  | M80                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH18FW-GSZ                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SB            | AMP_ON SIGNAL               |
| 2            | O             | SOUND SIGNAL FRONT LH (+)   |
| 3            | W             | SOUND SIGNAL FRONT LH (-)   |
| 4            | V             | SOUND SIGNAL REAR LH (+)    |
| 5            | LG            | SOUND SIGNAL REAR LH (-)    |
| 6            | P             | STRG SW A                   |
| 7            | GR            | ACC                         |
| 9            | L             | ILLUMINATION                |
| 10           | B             | SHIELD                      |
| 11           | R             | SOUND SIGNAL FRONT RH (+)   |
| 12           | G             | SOUND SIGNAL FRONT RH (-)   |

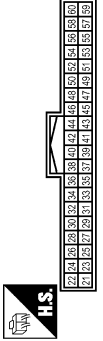
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| Connector No.  | M88                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH12FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 61           | W             | RGB (RFRED) SIGNAL          |
| 62           | B             | RGB (GGREEN) SIGNAL         |
| 63           | R             | RGB (BBLUE) SIGNAL          |
| 64           | V             | SHIELD                      |
| 65           | G             | RGB SYNC                    |
| 66           | B             | SHIELD                      |
| 67           | O             | RGB AREA(YS) SIGNAL         |
| 68           | R             | HP                          |
| 69           | W             | HP                          |
| 70           | L             | COMM (CONT->DISP)           |
| 71           | LG            | COMM (DISP->CONT)           |

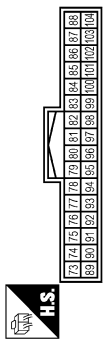
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|----|----|--------------------------|
| 13 | BR | SOUND SIGNAL REAR RH (+) |
| 14 | Y  | SOUND SIGNAL REAR RH (-) |
| 15 | B  | STRG SW GND              |
| 16 | L  | STRG SW B                |
| 18 | Y  | BATTERY                  |
| 20 | B  | GND                      |

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M87                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH40FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 21           | B             | GND                         |
| 22           | Y             | BATTERY                     |
| 23           | B             | GND                         |
| 24           | Y             | BATTERY                     |
| 25           | V             | ACC                         |
| 26           | G             | MICROPHONE YCC              |
| 27           | SHIELD        | MICROPHONE GND              |
| 28           | R             | MICROPHONE SIGNAL           |
| 35           | G             | IGNITION                    |
| 36           | SB            | PARKING BRAKE               |
| 37           | O             | REVERSE                     |

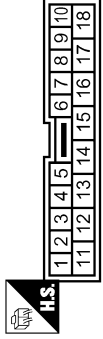
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|----------------|-----------------------------|
| Connector No.  | M89                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH32FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 79           | R             | Pod SOUND SIGNAL LH (+)     |
| 80           | B             | Pod SOUND SIGNAL RH (+)     |
| 81           | SHIELD        | SHIELD                      |
| 85           | SB            | EJECT SIGNAL                |
| 86           | SHIELD        | SHIELD                      |
| 87           | W             | AUX SOUND SIGNAL LH (+)     |
| 88           | B             | AUX SOUND SIGNAL GND        |
| 95           | W             | Pod SOUND SIGNAL LH (-)     |
| 96           | G             | Pod SOUND SIGNAL RH (-)     |
| 102          | BR            | SW GND                      |
| 103          | R             | AUX SOUND SIGNAL RH (+)     |

|    |    |                         |
|----|----|-------------------------|
| 38 | GR | VEHICLE SPEED (8-PULSE) |
| 40 | W  | CONNECTION RECOGNITION  |
| 41 | B  | CONTROL SIGNAL 1        |
| 44 | SB | MODE CHANGE SIGNAL      |
| 48 | G  | AV COMM (R)             |
| 49 | R  | AV COMM (L)             |
| 50 | Y  | AV COMM (R)             |
| 51 | LG | AV COMM (L)             |
| 52 | L  | CAN-H                   |
| 53 | P  | CAN-L                   |

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|----------------|--------------|
| Connector No.  | M106         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MPP-HSB  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | - [With rear view camera]   |
| 2            | G             | - [With rear view camera]   |
| 3            | SHIELD        | - [With rear view camera]   |



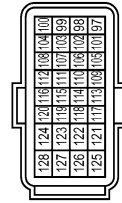
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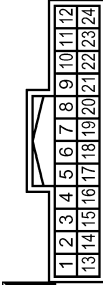
[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

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| Connector No.  | M107              |
| Connector Name | ECM               |
| Connector Type | RH2FGY-R28-R-LH-Z |



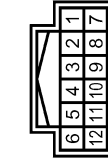
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|----------------|--------------|
| Connector No.  | M111         |
| Connector Name | iPod ADAPTER |
| Connector Type | TH2FW-NH     |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 113          | P             | VEHCAN-L1                   |
| 114          | L             | VEHCAN-H1                   |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | iPod SOUND SIGNAL LH (-)    |
| 2            | B             | iPod SOUND SIGNAL RH (-)    |
| 3            | V             | ACC                         |
| 4            | R             | AV COMM (L)                 |
| 5            | Y             | BATTERY                     |
| 8            | W             | CHARGE POWER                |
| 9            | P             | COMM (iPod ADAPTER->iPod)   |
| 10           | L             | COMM (iPod->iPod ADAPTER)   |
| 11           | O             | ACCESSORY IDENTITY          |
| 12           | W             | iPod SOUND SIGNAL RH (+)    |
| 13           | W             | iPod SOUND SIGNAL LH (+)    |

|                |              |
|----------------|--------------|
| Connector No.  | M114         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | G             | -                           |
| 3            | O             | -                           |
| 4            | SHIELD        | -                           |
| 5            | W             | -                           |
| 6            | B             | -                           |
| 7            | R             | -                           |
| 8            | BR            | -                           |
| 9            | W             | -                           |
| 10           | W             | -                           |
| 11           | SHIELD        | -                           |

|    |        |                             |
|----|--------|-----------------------------|
| 14 | G      | iPod SOUND SIGNAL RH (-)    |
| 15 | SHIELD | SHIELD                      |
| 16 | G      | AV COMM (H)                 |
| 17 | BR     | GND                         |
| 19 | SHIELD | SHIELD                      |
| 21 | W      | iPod CONNECTION RECOGNITION |
| 22 | G      | ACCESSORY DETECT            |
| 23 | R      | iPod SOUND SIGNAL GND       |
| 24 | B      | iPod SOUND SIGNAL LH (+)    |

|                |                      |
|----------------|----------------------|
| Connector No.  | M112                 |
| Connector Name | iPod SIDE (WITH A/T) |
| Connector Type | IP16FGY              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | iPod SOUND SIGNAL LH (+)    |
| 2            | R             | iPod SOUND SIGNAL GND       |
| 5            | L             | COMM (iPod->iPod ADAPTER)   |
| 6            | P             | COMM (iPod ADAPTER->iPod)   |
| 7            | W             | iPod SOUND SIGNAL RH (+)    |
| 9            | W             | iPod CONNECTION RECOGNITION |
| 10           | BR            | GND                         |
| 12           | W             | CHARGE POWER                |
| 14           | SHIELD        | SHIELD                      |
| 15           | G             | ACCESSORY DETECT            |
| 16           | O             | ACCESSORY IDENTITY          |

|                |              |
|----------------|--------------|
| Connector No.  | M116         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK36MF-NS10  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 30           | LG            | -                           |
| 31           | W             | -                           |
| 41           | O             | -                           |

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| Connector No.  | M117            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH80MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 51           | P             | -                           |
| 52           | V             | -                           |
| 53           | LG            | -                           |
| 54           | B             | -                           |
| 60           | Y             | -                           |
| 61           | SB            | -                           |
| 62           | W             | -                           |
| 63           | G             | -                           |
| 64           | R             | -                           |
| 65           | L             | -                           |
| 66           | BR            | -                           |

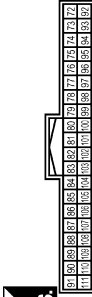
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| Connector No.  | M145         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH8AMW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | B             | -                           |
| 4            | W             | -                           |

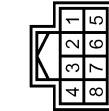
|     |   |   |
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| 67  | O | - |
| 99  | P | - |
| 100 | L | - |

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| Connector No.  | M122                      |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH                 |



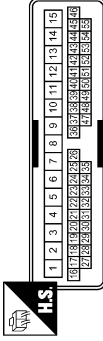
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 90           | P             | CAN-L                       |
| 91           | L             | CAN-H                       |

|                |              |
|----------------|--------------|
| Connector No.  | M165         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH8FPW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | R             | -                           |
| 4            | W             | -                           |
| 5            | B             | -                           |
| 6            | B             | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M124         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-GS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 36           | R             | -                           |
| 37           | BR            | -                           |

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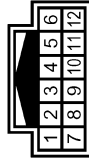
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[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

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| Connector No.  | M181         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             |                             |
| 2            | G             |                             |
| 3            | O             |                             |
| 4            | SHIELD        |                             |
| 5            | GR            |                             |
| 6            | BR            |                             |
| 7            | W             |                             |
| 8            | BR            |                             |
| 9            | L             |                             |
| 10           | W             |                             |
| 11           | SHIELD        |                             |

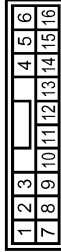
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| Connector No.  | M381         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH18MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        |                             |
| 2            | B             |                             |
| 3            | R             | - [With NAVI]               |
| 4            | W             | - [With NAVI]               |
| 5            | SHIELD        |                             |
| 6            | SHIELD        |                             |
| 7            | G             |                             |
| 8            | R             |                             |

|    |   |   |
|----|---|---|
| 12 | P | - |
|----|---|---|

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|----------------|----------------------|
| Connector No.  | M182                 |
| Connector Name | iPod SIDE (WITH M/T) |
| Connector Type | IP16FGY              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | BR            | iPod SOUND SIGNAL LH (+)    |
| 2            | W             | iPod SOUND SIGNAL GND       |
| 5            | L             | COMM (iPod->iPod ADAPTER)   |
| 6            | P             | COMM (iPod ADAPTER->iPod)   |
| 7            | GR            | iPod SOUND SIGNAL RH (+)    |
| 9            | W             | iPod CONNECTION RECOGNITION |
| 10           | BR            | GND                         |
| 12           | L             | CHARGE POWER                |
| 14           | SHIELD        | SHIELD                      |
| 15           | G             | ACCESSORY DETECT            |
| 16           | O             | ACCESSORY IDENTIFY          |

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M371                        |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | GT13SHF-2/1S-HU             |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 105          | -             | FM SUB                      |
| 106          | -             | AM-FM MAIN                  |
| 107          | -             | ANTENNA AMP_ON SIGNAL       |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M303                              |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY                           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 14           | W             |                             |
| 15           | L             |                             |
| 17           | BR            |                             |

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M372                        |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | FAKRA JACK                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 108          | -             | SATELLITE ANTENNA           |
| 109          | SHIELD        | SHIELD                      |

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[BOSE AUDIO WITH NAVIGATION]

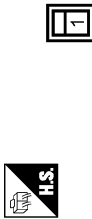
## BOSE AUDIO WITH NAVIGATION SYSTEM

|   |                             |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
|---|-----------------------------|------------|----------------|-----------------------------|----------------|-------------|--------------|-----|-----|---------------|-----|--------|-----------------------------|-------------|--------|---|---------------|------|----------------|--------------|----------------|----------------|--------------|---|---|---------------|-----|--------|-----------------------------|------------------------|------------|---|---------------|------|----------------|---------------------|----------------|----------------|--------------|---|---------------|-----|-----------------------------|-----|---|---------------|-----------------------------|----------------|--------------|----------------|---|---------------|------|----------------|---------------|----------------|------------------|-----------------------------|-----|-----|---|---------------|-----|-----|-----|-----------------------------|-----|-----|-----|
| <table border="1"> <tr><td>Connector No.</td><td>M373</td></tr> <tr><td>Connector Name</td><td>AV CONTROL UNIT (WITH NAVI)</td></tr> <tr><td>Connector Type</td><td>GTB-1S-HU</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>110</td><td>111</td></tr> <tr><td>Color of Wire</td><td>---</td><td>SHIELD</td></tr> <tr><td>Signal Name [Specification]</td><td>GPS ANTENNA</td><td>SHIELD</td></tr> </table> | Connector No.               | M373       | Connector Name | AV CONTROL UNIT (WITH NAVI) | Connector Type | GTB-1S-HU   | Terminal No. | 110 | 111 | Color of Wire | --- | SHIELD | Signal Name [Specification] | GPS ANTENNA | SHIELD | <table border="1"> <tr><td>Connector No.</td><td>M374</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>GT16C-1PP-HU</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>---</td><td>SHIELD</td></tr> <tr><td>Signal Name [Specification]</td><td>---</td><td>---</td></tr> </table>                          | Connector No. | M374 | Connector Name | WIRE TO WIRE | Connector Type | GT16C-1PP-HU   | Terminal No. | 1 | 2 | Color of Wire | --- | SHIELD | Signal Name [Specification] | ---                    | ---        | <table border="1"> <tr><td>Connector No.</td><td>M375</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>GT13SC-2/1S-HU</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td><td>3</td></tr> <tr><td>Color of Wire</td><td>---</td><td>---</td><td>---</td></tr> <tr><td>Signal Name [Specification]</td><td>---</td><td>---</td><td>---</td></tr> </table> | Connector No. | M375 | Connector Name | WIRE TO WIRE        | Connector Type | GT13SC-2/1S-HU | Terminal No. | 1 | 2             | 3   | Color of Wire               | --- | ---   | ---           | Signal Name [Specification] | ---            | ---          | ---            | <table border="1"> <tr><td>Connector No.</td><td>M376</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>GT13SCN-2/1PP-HU</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td><td>3</td></tr> <tr><td>Color of Wire</td><td>---</td><td>---</td><td>---</td></tr> <tr><td>Signal Name [Specification]</td><td>---</td><td>---</td><td>---</td></tr> </table> | Connector No. | M376 | Connector Name | WIRE TO WIRE  | Connector Type | GT13SCN-2/1PP-HU | Terminal No.                | 1   | 2   | 3 | Color of Wire | --- | --- | --- | Signal Name [Specification] | --- | --- | --- |
| Connector No.   | M373                        |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Name  | AV CONTROL UNIT (WITH NAVI) |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Type  | GTB-1S-HU                   |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Terminal No.  | 110                         | 111        |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Color of Wire   | ---                         | SHIELD     |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Signal Name [Specification]   | GPS ANTENNA                 | SHIELD     |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector No.   | M374                        |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Name  | WIRE TO WIRE                |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Type  | GT16C-1PP-HU                |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Terminal No.  | 1                           | 2          |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Color of Wire   | ---                         | SHIELD     |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Signal Name [Specification]   | ---                         | ---        |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector No.   | M375                        |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Name  | WIRE TO WIRE                |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Type  | GT13SC-2/1S-HU              |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Terminal No.  | 1                           | 2          | 3              |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Color of Wire   | ---                         | ---        | ---            |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Signal Name [Specification]   | ---                         | ---        | ---            |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector No.   | M376                        |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Name  | WIRE TO WIRE                |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Type  | GT13SCN-2/1PP-HU            |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Terminal No.  | 1                           | 2          | 3              |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Color of Wire   | ---                         | ---        | ---            |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Signal Name [Specification]   | ---                         | ---        | ---            |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| <table border="1"> <tr><td>Connector No.</td><td>M377</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>GT16C-1S-HU</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>---</td><td>SHIELD</td></tr> <tr><td>Signal Name [Specification]</td><td>---</td><td>---</td></tr> </table>                             | Connector No.               | M377       | Connector Name | WIRE TO WIRE                | Connector Type | GT16C-1S-HU | Terminal No. | 1   | 2   | Color of Wire | --- | SHIELD | Signal Name [Specification] | ---         | ---    | <table border="1"> <tr><td>Connector No.</td><td>M378</td></tr> <tr><td>Connector Name</td><td>ANTENNA AMP.</td></tr> <tr><td>Connector Type</td><td>GT13SC-1/1S-HU</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>---</td><td>---</td></tr> <tr><td>Signal Name [Specification]</td><td>ANTENNA AMP. ON SIGNAL</td><td>AM-FM MAIN</td></tr> </table> | Connector No. | M378 | Connector Name | ANTENNA AMP. | Connector Type | GT13SC-1/1S-HU | Terminal No. | 1 | 2 | Color of Wire | --- | ---    | Signal Name [Specification] | ANTENNA AMP. ON SIGNAL | AM-FM MAIN | <table border="1"> <tr><td>Connector No.</td><td>M379</td></tr> <tr><td>Connector Name</td><td>GLASS ANTENNA (SUB)</td></tr> <tr><td>Connector Type</td><td>PR1FB-A</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>1</td></tr> <tr><td>Color of Wire</td><td>---</td></tr> <tr><td>Signal Name [Specification]</td><td>---</td></tr> </table>   | Connector No. | M379 | Connector Name | GLASS ANTENNA (SUB) | Connector Type | PR1FB-A        | Terminal No. | 1 | Color of Wire | --- | Signal Name [Specification] | --- | <table border="1"> <tr><td>Connector No.</td><td>M380</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>GT16-1PP-HU</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>---</td><td>SHIELD</td></tr> <tr><td>Signal Name [Specification]</td><td>---</td><td>---</td></tr> </table> | Connector No. | M380                        | Connector Name | WIRE TO WIRE | Connector Type | GT16-1PP-HU   | Terminal No.  | 1    | 2              | Color of Wire | ---            | SHIELD           | Signal Name [Specification] | --- | --- |   |               |     |     |     |                             |     |     |     |
| Connector No.   | M377                        |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Name  | WIRE TO WIRE                |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Type  | GT16C-1S-HU                 |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Terminal No.  | 1                           | 2          |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Color of Wire   | ---                         | SHIELD     |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Signal Name [Specification]   | ---                         | ---        |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector No.   | M378                        |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Name  | ANTENNA AMP.                |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Type  | GT13SC-1/1S-HU              |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Terminal No.  | 1                           | 2          |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Color of Wire   | ---                         | ---        |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Signal Name [Specification]   | ANTENNA AMP. ON SIGNAL      | AM-FM MAIN |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector No.   | M379                        |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Name  | GLASS ANTENNA (SUB)         |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Type  | PR1FB-A                     |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Terminal No.  | 1                           |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Color of Wire   | ---                         |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Signal Name [Specification]   | ---                         |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector No.   | M380                        |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Name  | WIRE TO WIRE                |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Type  | GT16-1PP-HU                 |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Terminal No.  | 1                           | 2          |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Color of Wire   | ---                         | SHIELD     |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Signal Name [Specification]   | ---                         | ---        |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |

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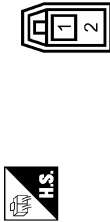
BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                      |
|----------------|----------------------|
| Connector No.  | M381                 |
| Connector Name | GLASS ANTENNA (MAIN) |
| Connector Type | F01FB-A              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

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| Connector No.  | M382         |
| Connector Name | WIRE TO WIRE |
| Connector Type | GT16C-IS-HU  |



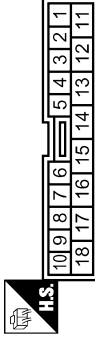
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

|                |                         |
|----------------|-------------------------|
| Connector No.  | M383                    |
| Connector Name | SATELLITE RADIO ANTENNA |
| Connector Type | GT16C-IPP-HU            |



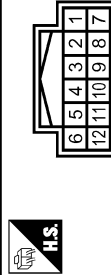
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

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| Connector No.  | R1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK16FW-NSS   |



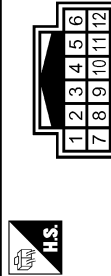
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | - [With rear view camera]   |
| 2            | G             | - [With rear view camera]   |
| 3            | SHIELD        | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | R2           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12PW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | SHIELD        | -                           |
| 4            | R             | - [With rear view camera]   |
| 5            | G             | - [With rear view camera]   |

|                |              |
|----------------|--------------|
| Connector No.  | R11          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | SHIELD        | -                           |
| 4            | R             | -                           |
| 5            | G             | -                           |

|                |            |
|----------------|------------|
| Connector No.  | R17        |
| Connector Name | MICROPHONE |
| Connector Type | TRG4FW     |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | MICROPHONE SIGNAL           |
| 2            | SHIELD        | SHIELD                      |
| 4            | G             | MICROPHONE VCC              |

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# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

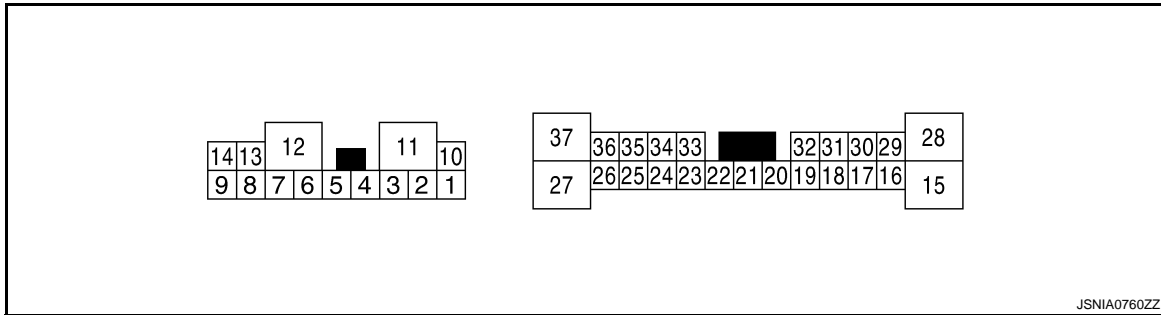
[BOSE AUDIO WITH NAVIGATION]

## BOSE AMP.

Reference Value

INFOID:000000004238829

### TERMINAL LAYOUT



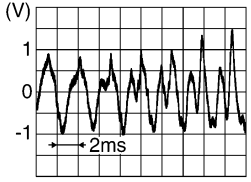
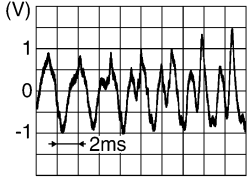
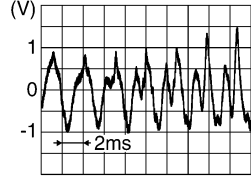
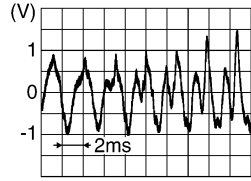
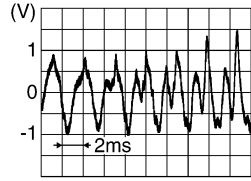
### PHYSICAL VALUES

| Terminal<br>(Wire color) |           | Description                            |                  | Condition                 |              | Reference value<br>(Approx.)                |
|--------------------------|-----------|--|------------------|---------------------------|--------------|---|
| +                        | -         | Signal name                            | Input/<br>Output |                           |              |   |
| 1<br>(L)                 | 2<br>(W)  | Sound signal front door<br>squawker LH | Output           | Ignition<br>switch<br>ON  | Voice output | <p style="text-align: right;">SKIB3609E</p> |
| 4<br>(V)                 | 3<br>(LG) | Sound signal front door<br>squawker RH | Output           | Ignition<br>switch<br>ON  | Voice output | <p style="text-align: right;">SKIB3609E</p> |
| 5<br>(G)                 | 6<br>(R)  | Sound signal front door<br>woofer RH   | Output           | Ignition<br>switch<br>ON  | Voice output | <p style="text-align: right;">SKIB3609E</p> |
| 7<br>(B)                 | Ground    | GND                                    | —                | Ignition<br>switch<br>ON  | —            | 0 V   |
| 10<br>(Y)                | Ground    | Battery power supply                   | Input            | Ignition<br>switch<br>OFF | —            | Battery voltage                             |
| 11<br>(GR)               | Ground    | Battery power supply                   | Input            | Ignition<br>switch<br>OFF | —            | Battery voltage                             |
| 12<br>(B)                | Ground    | GND                                    | —                | Ignition<br>switch<br>ON  | —            | 0 V   |

# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

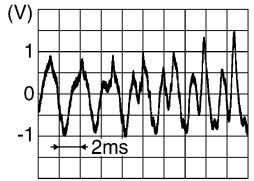
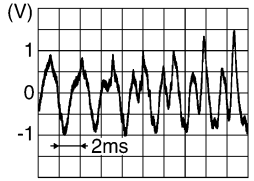
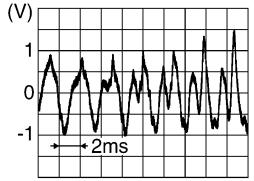
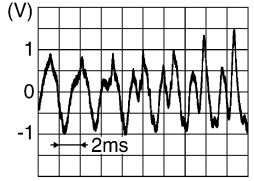
| Terminal<br>(Wire color) |            | Description                          |                  | Condition                 |              | Reference value<br>(Approx.)   |
|--------------------------|------------|--------------------------------------|------------------|---------------------------|--------------|--|
| +                        | -          | Signal name                          | Input/<br>Output |                           |              |  |
| 14<br>(B)                | 9<br>(W)   | Sound signal front door<br>woofer LH | Output           | Ignition<br>switch<br>ON  | Voice output | <br>SKIB3609E   |
| 16<br>(SB)               | 17<br>(V)  | Sound signal rear woofer             | Output           | Ignition<br>switch<br>ON  | Voice output | <br>SKIB3609E   |
| 18<br>(L)                | 19<br>(P)  | Sound signal rear door<br>speaker LH | Output           | Ignition<br>switch<br>ON  | Voice output | <br>SKIB3609E  |
| 20<br>(W)                | Ground     | Amp. ON signal                       | Input            | Ignition<br>switch<br>ACC | —            | 10 V   |
| 21                       | —          | Shield                               | —                | —                         | —            | —  |
| 22<br>(GR)               | Ground     | Woofer Amp. ON signal                | Output           | Ignition<br>switch<br>ACC | —            | 10 V   |
| 24<br>(V)                | 23<br>(SB) | Sound signal rear LH                 | Input            | Ignition<br>switch<br>ON  | Voice output | <br>SKIB3609E |
| 26<br>(BR)               | 25<br>(Y)  | Sound signal rear RH                 | Input            | Ignition<br>switch<br>ON  | Voice output | <br>SKIB3609E |

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# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

| Terminal<br>(Wire color) |           | Description                       |                  | Condition                |                          | Reference value<br>(Approx.)   |
|--------------------------|-----------|-----------------------------------|------------------|--------------------------|--------------------------|--|
| +                        | -         | Signal name                       | Input/<br>Output |                          |                          |  |
| 29<br>(O)                | 30<br>(L) | Sound signal center speaker       | Output           | Ignition<br>switch<br>ON | Voice output             | <br>SKIB3609E   |
| 31<br>(LG)               | 32<br>(Y) | Sound signal rear door speaker RH | Output           | Ignition<br>switch<br>ON | Voice output             | <br>SKIB3609E   |
| 33<br>(R)                | 34<br>(G) | Sound signal front RH             | Input            | Ignition<br>switch<br>ON | Voice output             | <br>SKIB3609E  |
| 35<br>(P)                | 36<br>(L) | Sound signal front LH             | Input            | Ignition<br>switch<br>ON | Voice output             | <br>SKIB3609E |
| 37<br>(SB)               | Ground    | Mode change signal                | Input            | Ignition<br>switch<br>ON | Driver's Audio Stage ON  | 0 V  |
|                          |           |                                   |                  | Ignition<br>switch<br>ON | Driver's Audio Stage OFF | 8.5 V  |

## Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM -

INFOID:000000004501730

**NOTE:**

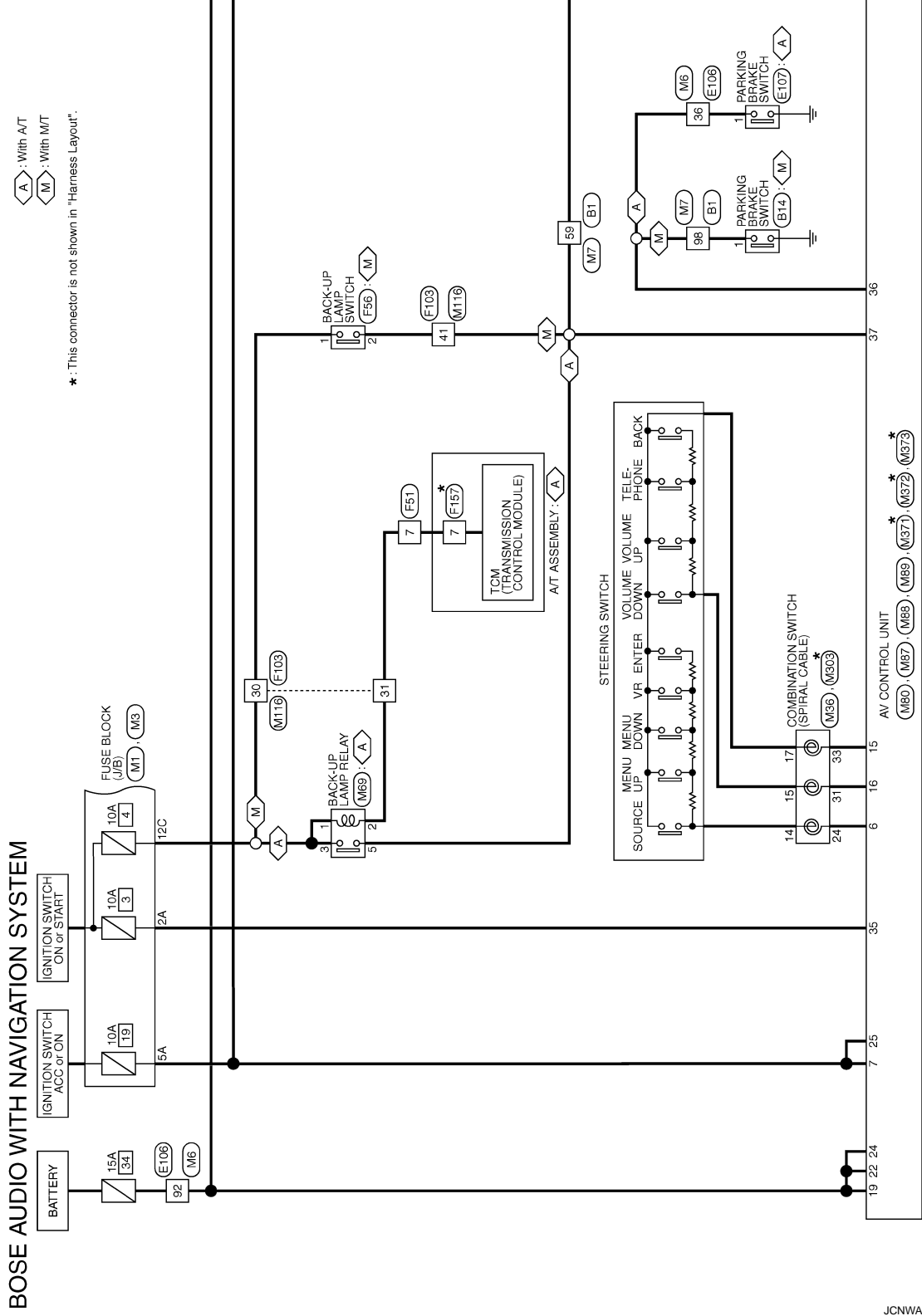


# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.



A : With AT  
M : With MT  
 \* : This connector is not shown in "Harness Layout".

2008/08/07

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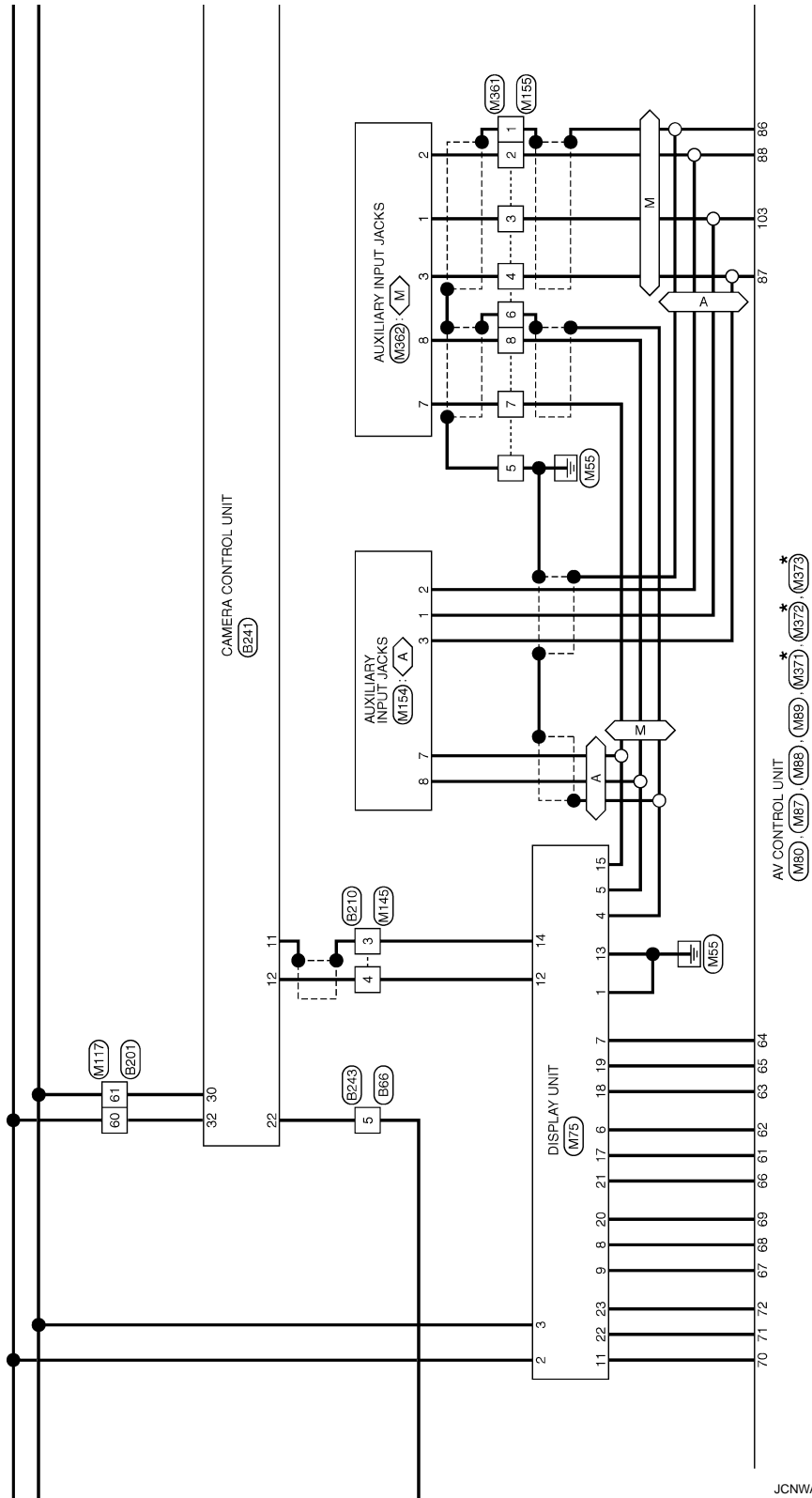
# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

A : With A/T  
M : With M/T

★ : This connector is not shown in "Harness Layout".



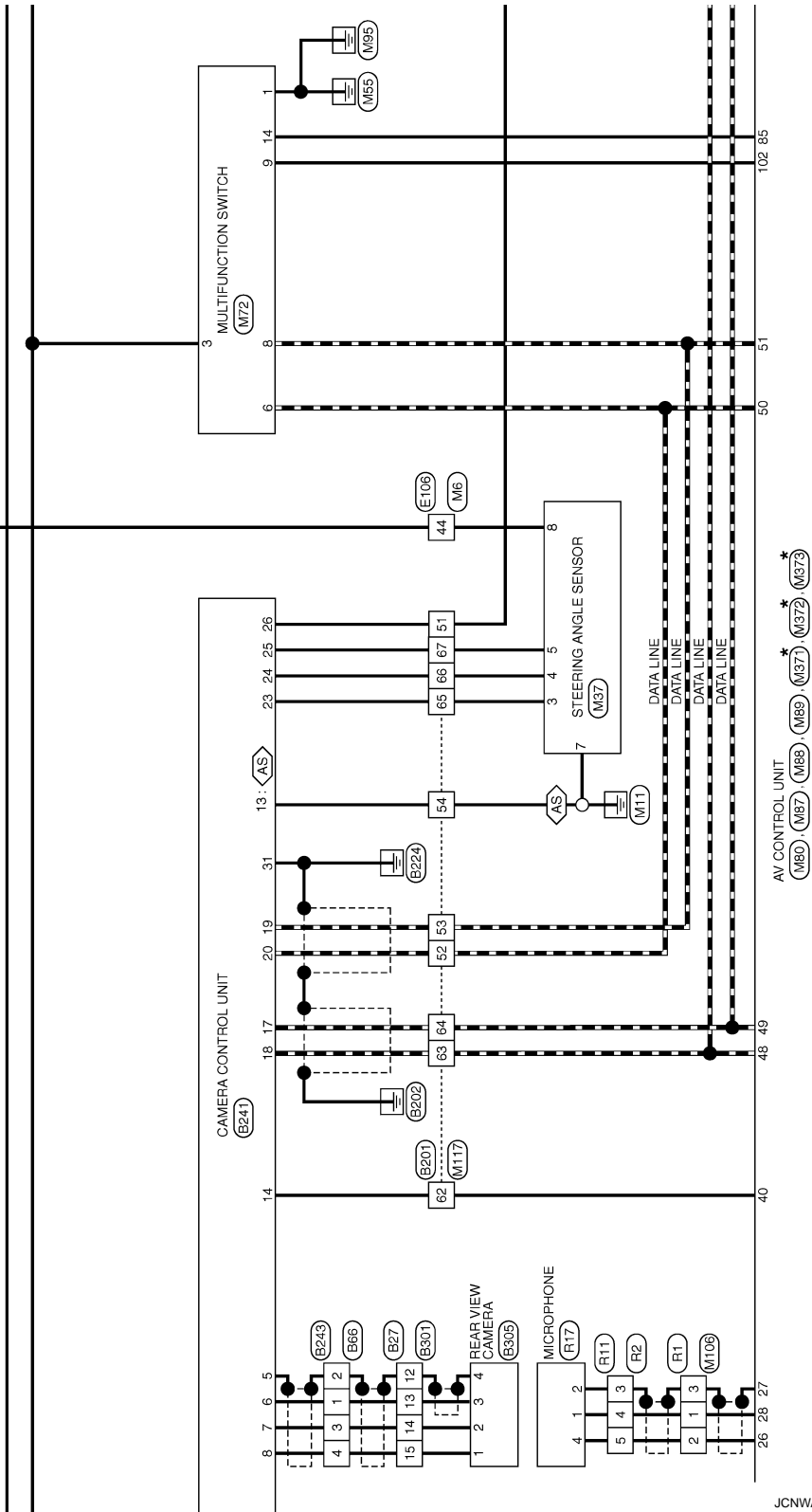
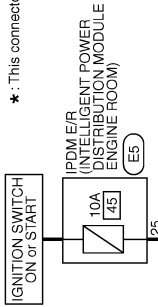
JCNWA1769GE

# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

AS : With 4WAS  
 \*: This connector is not shown in "Harness Layout".



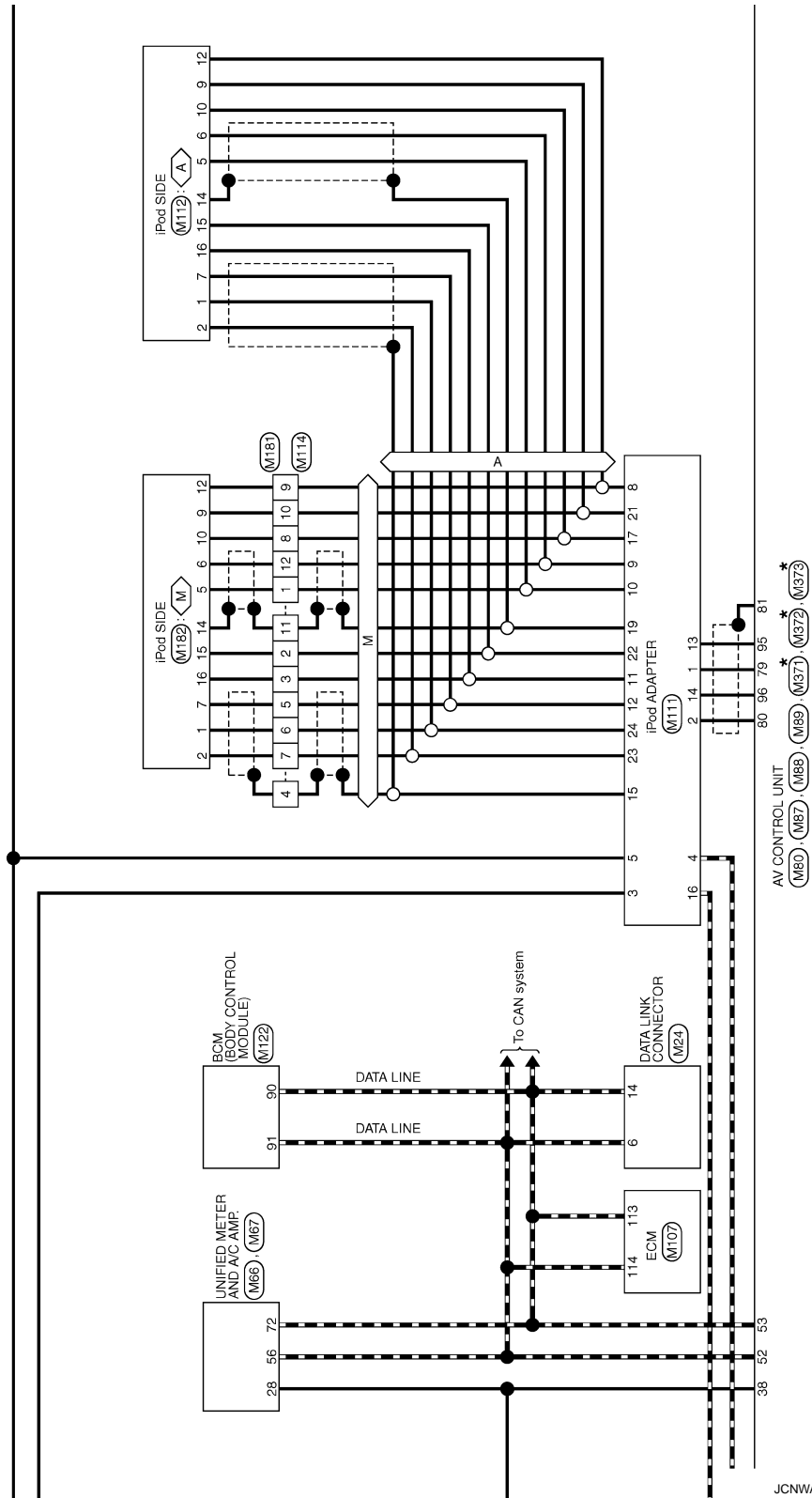
JCNWA1770GE

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# BOSE AMP.

◁ A ▷ : With A/T  
 ▷ M ▷ : With M/T

\*: This connector is not shown in "Harness Layout".

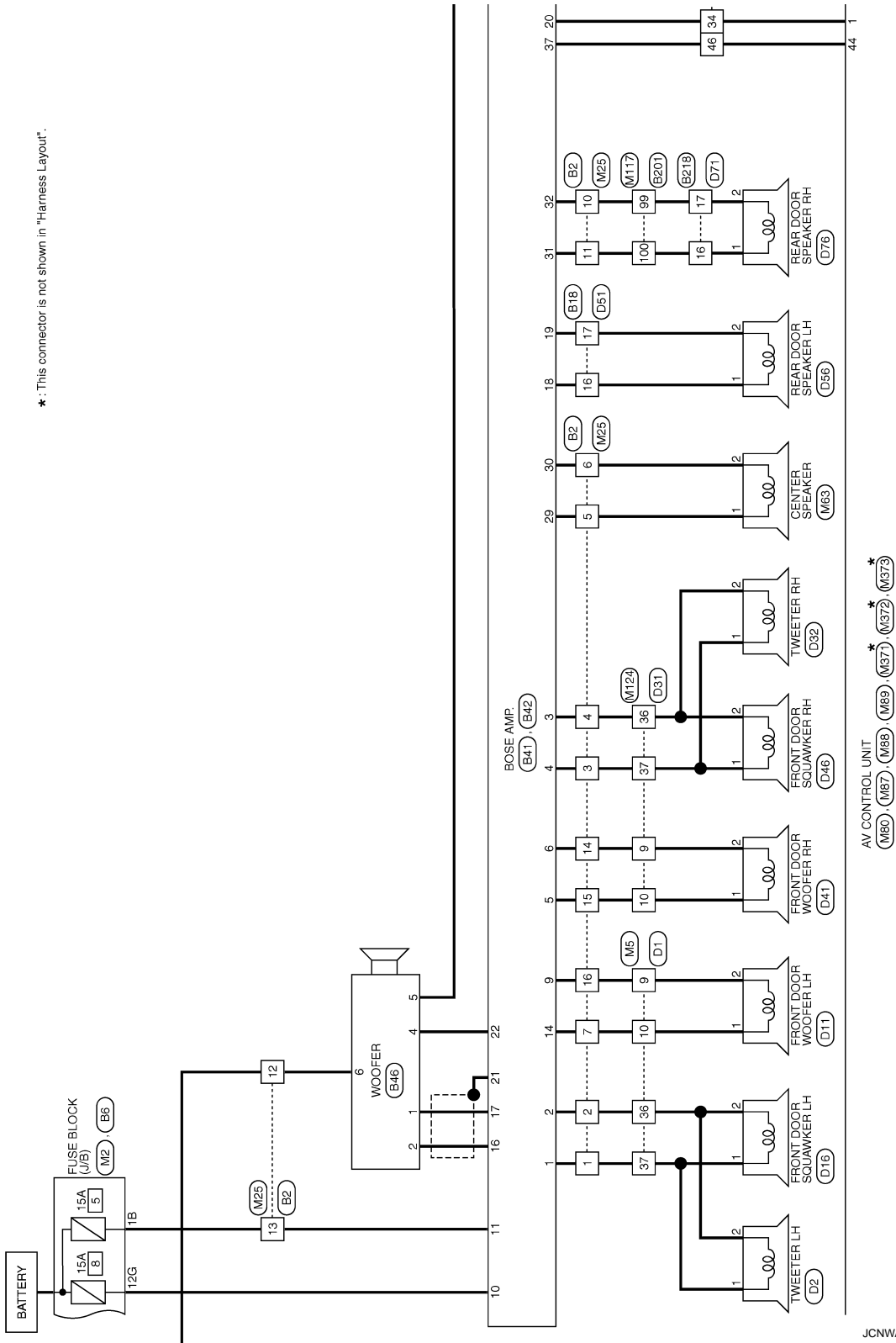


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# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]



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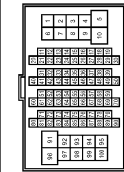
# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

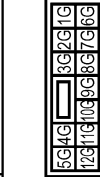
## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                 |
|----------------|-----------------|
| Connector No.  | B1              |
| WIRE TO WIRE   |                 |
| Connector Type | TH00FW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | V             | -                           |
| 32           | SB            | -                           |
| 33           | SHIELD        | -                           |
| 34           | W             | -                           |
| 35           | BR            | -                           |
| 36           | Y             | -                           |
| 37           | SHIELD        | -                           |
| 40           | P             | -                           |
| 41           | L             | -                           |
| 42           | SHIELD        | -                           |
| 43           | R             | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | B6               |
| WIRE TO WIRE   | FUSE BLOCK (J/B) |
| Connector Type | MS12FBS-CS       |



|                             |     |   |   |
|-----------------------------|-----|---|---|
| Terminal No.                | 12G | Y | - |
| Color of Wire               |     |   |   |
| Signal Name [Specification] |     |   |   |

|    |        |   |
|----|--------|---|
| 44 | G      | - |
| 45 | SHIELD | - |
| 46 | SB     | - |
| 58 | V      | - |
| 98 | V      | - |



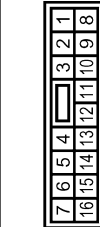
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | V             | -                           |
| 4            | LG            | -                           |
| 5            | L             | -                           |
| 6            | O             | -                           |
| 7            | B             | -                           |
| 10           | Y             | -                           |
| 11           | LG            | -                           |
| 12           | P             | -                           |
| 13           | GR            | -                           |

|                |                                 |
|----------------|---------------------------------|
| Connector No.  | B14                             |
| WIRE TO WIRE   | PARKING BRAKE SWITCH (WITH M/T) |
| Connector Type | P01FB-A                         |



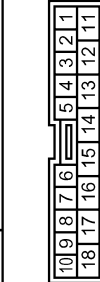
|                             |   |   |   |
|-----------------------------|---|---|---|
| Terminal No.                | 1 | V | - |
| Color of Wire               |   |   |   |
| Signal Name [Specification] |   |   |   |

|                |           |
|----------------|-----------|
| Connector No.  | B2        |
| WIRE TO WIRE   |           |
| Connector Type | NS16FW-CS |



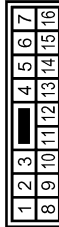
|    |   |   |
|----|---|---|
| 14 | R | - |
| 15 | G | - |
| 16 | W | - |

|                |            |
|----------------|------------|
| Connector No.  | B18        |
| WIRE TO WIRE   |            |
| Connector Type | TR10FW-NSB |



|                             |    |   |                      |
|-----------------------------|----|---|----------------------|
| Terminal No.                | 16 | L | -                    |
| Color of Wire               |    |   |                      |
| Signal Name [Specification] |    |   |                      |
| 17                          | P  | - | - [With BOSE system] |

|                |           |
|----------------|-----------|
| Connector No.  | B27       |
| WIRE TO WIRE   |           |
| Connector Type | NS16MW-CS |



|                             |    |        |   |
|-----------------------------|----|--------|---|
| Terminal No.                | 12 | SHIELD | - |
| Color of Wire               |    |        |   |
| Signal Name [Specification] |    |        |   |
| 13                          | B  | -      | - |
| 14                          | W  | -      | - |
| 15                          | R  | -      | - |

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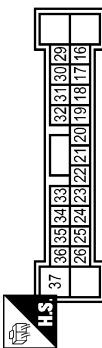
# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |               |
|----------------|---------------|
| Connector No.  | B41           |
| Connector Name | BOSE AMP.     |
| Connector Type | SCA19FBR-SG44 |



|    |    |                               |
|----|----|-------------------------------|
| 29 | L  | SOUND SIGNAL CENTER (+)       |
| 30 | O  | SOUND SIGNAL CENTER (-)       |
| 31 | LG | SOUND SIGNAL REAR DOOR RH (+) |
| 32 | Y  | SOUND SIGNAL REAR DOOR RH (-) |
| 33 | R  | SOUND SIGNAL FRONT RH (+)     |
| 34 | G  | SOUND SIGNAL FRONT RH (-)     |
| 35 | P  | SOUND SIGNAL FRONT LH (+)     |
| 36 | L  | SOUND SIGNAL FRONT LH (-)     |
| 37 | SB | MODE CHANGE SIGNAL            |

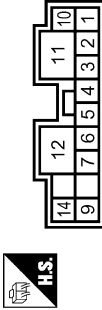
| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 16           | SB            | SOUND SIGNAL WOOFER (+)       |
| 17           | V             | SOUND SIGNAL WOOFER (-)       |
| 18           | L             | SOUND SIGNAL REAR DOOR LH (+) |
| 19           | P             | SOUND SIGNAL REAR DOOR LH (-) |
| 20           | W             | AMP. ON SIGNAL                |
| 21           | SHIELD        | SHIELD                        |
| 22           | GR            | WOOFER AMP. ON SIGNAL         |
| 23           | SB            | SOUND SIGNAL REAR LH (+)      |
| 24           | V             | SOUND SIGNAL REAR LH (-)      |
| 25           | Y             | SOUND SIGNAL REAR RH (+)      |
| 26           | BR            | SOUND SIGNAL REAR RH (-)      |

|                |            |
|----------------|------------|
| Connector No.  | B46        |
| Connector Name | WOOFER     |
| Connector Type | MS08FBR-CS |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | V             | SOUND SIGNAL WOOFER (-)     |
| 2            | SB            | SOUND SIGNAL WOOFER (+)     |
| 4            | GR            | WOOFER AMP. ON SIGNAL       |
| 5            | B             | GND                         |
| 6            | P             | BATTERY                     |

|                |               |
|----------------|---------------|
| Connector No.  | B42           |
| Connector Name | BOSE AMP.     |
| Connector Type | SCA12FBR-SJA2 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | FRONT DOOR SQUAWKER LH (+)  |
| 2            | W             | FRONT DOOR SQUAWKER LH (-)  |
| 3            | LG            | FRONT DOOR SQUAWKER RH (+)  |
| 4            | V             | FRONT DOOR SQUAWKER RH (-)  |
| 5            | G             | FRONT DOOR WOOFER RH (+)    |
| 6            | R             | FRONT DOOR WOOFER RH (-)    |
| 7            | B             | GND                         |
| 9            | W             | FRONT DOOR WOOFER LH (-)    |
| 10           | Y             | BATTERY                     |
| 11           | GR            | BATTERY                     |
| 12           | B             | GND                         |

|                |                    |
|----------------|--------------------|
| Connector No.  | B201               |
| Connector Name | WIRE TO WIRE       |
| Connector Type | TH102PW-CS (P-TM4) |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 51           | V             | -                           |
| 52           | G             | -                           |
| 53           | R             | -                           |
| 54           | B             | -                           |
| 60           | L             | -                           |
| 61           | LG            | -                           |
| 62           | P             | -                           |
| 63           | Y             | -                           |
| 64           | BR            | -                           |
| 65           | W             | -                           |
| 66           | R             | -                           |

|    |   |                          |
|----|---|--------------------------|
| 14 | B | FRONT DOOR WOOFER LH (+) |
|----|---|--------------------------|

|     |   |   |
|-----|---|---|
| 67  | O | - |
| 69  | P | - |
| 100 | L | - |



BOSE AUDIO WITH NAVIGATION SYSTEM

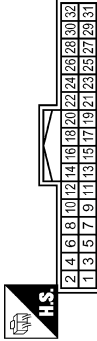
|                |              |
|----------------|--------------|
| Connector No.  | E210         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



|                |              |
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| Connector No.  | E218         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NSB   |



|                |                     |
|----------------|---------------------|
| Connector No.  | E241                |
| Connector Name | CAMERA CONTROL UNIT |
| Connector Type | TH03FW-NH           |



|    |    |                         |
|----|----|-------------------------|
| 20 | G  | AV COMM (H)             |
| 22 | GR | REVERSE                 |
| 23 | W  | SENSOR SIGNAL 1         |
| 24 | R  | SENSOR SIGNAL 2         |
| 25 | O  | SENSOR SIGNAL 3         |
| 28 | V  | VEHICLE SPEED (8-PULSE) |
| 30 | LG | ACC                     |
| 31 | B  | GND                     |
| 32 | L  | BATTERY                 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | SHIELD        | -                           |
| 4            | W             | -                           |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | L             | -                           |
| 17           | P             | -                           |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 5            | SHIELD        | SHIELD                      |
| 6            | B             | CAMERA IMAGE SIGNAL         |
| 7            | W             | GND                         |
| 8            | R             | CAMERA ON SIGNAL            |
| 11           | SHIELD        | SHIELD                      |
| 12           | W             | CAMERA IMAGE SIGNAL         |
| 13           | B             | CONTROL SIGNAL              |
| 14           | P             | CONNECTION RECOGNITION      |
| 17           | BR            | AV COMM (L)                 |
| 18           | Y             | AV COMM (H)                 |
| 19           | R             | AV COMM (L)                 |

|                |              |
|----------------|--------------|
| Connector No.  | E243         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



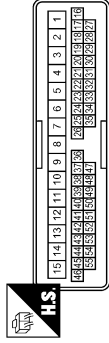
|                |              |
|----------------|--------------|
| Connector No.  | E201         |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS18FW-CS    |



|                |                  |
|----------------|------------------|
| Connector No.  | E205             |
| Connector Name | REAR VIEW CAMERA |
| Connector Type | TH03MW-NH        |



|                |              |
|----------------|--------------|
| Connector No.  | D1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | -                           |
| 2            | SHIELD        | -                           |
| 3            | W             | -                           |
| 4            | R             | -                           |
| 5            | GR            | -                           |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 12           | SHIELD        | -                           |
| 13           | Y             | -                           |
| 14           | L             | -                           |
| 15           | R             | -                           |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | CAMERA ON SIGNAL            |
| 2            | L             | GND                         |
| 3            | Y             | CAMERA IMAGE SIGNAL         |
| 4            | SHIELD        | SHIELD                      |








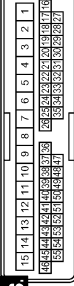







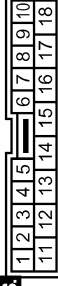
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 36           | W             | -                           |
| 37           | L             | -                           |

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BOSE AUDIO WITH NAVIGATION SYSTEM

|  |                        |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
|--|------------------------|-----|----------------|------------|----------------|-----------|--|--------------|---|---|---------------|---|---|-----------------------------|---|---|--|---------------|-----|----------------|----------------------|----------------|-----------|--|--------------|---|---|---------------|---|---|-----------------------------|---|---|--|---------------|-----|----------------|------------------------|----------------|---------|--|--------------|---|---|---------------|---|---|-----------------------------|---|---|--|---------------|-----|----------------|--------------|----------------|-------------|---|--------------|----|----|---------------|----|---------------|-----------------------------|---|---|---|-----------------------------|---|---|---|---|
| <table border="1"> <tr><td>Connector No.</td><td>D2</td></tr> <tr><td>Connector Name</td><td>TWEETER LH</td></tr> <tr><td>Connector Type</td><td>TKQ2MBR-P</td></tr> </table>    | Connector No.          | D2  | Connector Name | TWEETER LH | Connector Type | TKQ2MBR-P | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>L</td><td>W</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table> | Terminal No. | 1 | 2 | Color of Wire | L | W | Signal Name [Specification] | - | - | <table border="1"> <tr><td>Connector No.</td><td>D11</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR WOOFER LH</td></tr> <tr><td>Connector Type</td><td>NSQ2FW-CS</td></tr> </table>   | Connector No. | D11 | Connector Name | FRONT DOOR WOOFER LH | Connector Type | NSQ2FW-CS | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>G</td><td>R</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table> | Terminal No. | 1 | 2 | Color of Wire | G | R | Signal Name [Specification] | - | - | <table border="1"> <tr><td>Connector No.</td><td>D16</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR SQUAWKER LH</td></tr> <tr><td>Connector Type</td><td>TKQ2FBR</td></tr> </table>   | Connector No. | D16 | Connector Name | FRONT DOOR SQUAWKER LH | Connector Type | TKQ2FBR | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>L</td><td>W</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table> | Terminal No. | 1 | 2 | Color of Wire | L | W | Signal Name [Specification] | - | - | <table border="1"> <tr><td>Connector No.</td><td>D31</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH4QFY-CS/5</td></tr> </table>   | Connector No. | D31 | Connector Name | WIRE TO WIRE | Connector Type | TH4QFY-CS/5 | <table border="1"> <tr><td>Terminal No.</td><td>9</td><td>10</td><td>36</td><td>37</td></tr> <tr><td>Color of Wire</td><td>R</td><td>G</td><td>W</td><td>L</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </table> | Terminal No. | 9  | 10 | 36            | 37 | Color of Wire | R                           | G | W | L | Signal Name [Specification] | - | - | - | - |
| Connector No.  | D2                     |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Name   | TWEETER LH             |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Type   | TKQ2MBR-P              |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Terminal No.   | 1                      | 2   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Color of Wire  | L                      | W   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Signal Name [Specification]  | -                      | -   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector No.  | D11                    |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Name   | FRONT DOOR WOOFER LH   |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Type   | NSQ2FW-CS              |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Terminal No.   | 1                      | 2   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Color of Wire  | G                      | R   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Signal Name [Specification]  | -                      | -   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector No.  | D16                    |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Name   | FRONT DOOR SQUAWKER LH |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Type   | TKQ2FBR                |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Terminal No.   | 1                      | 2   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Color of Wire  | L                      | W   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Signal Name [Specification]  | -                      | -   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector No.  | D31                    |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Name   | WIRE TO WIRE           |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Type   | TH4QFY-CS/5            |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Terminal No.   | 9                      | 10  | 36             | 37         |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Color of Wire  | R                      | G   | W              | L          |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Signal Name [Specification]  | -                      | -   | -              | -          |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>D32</td></tr> <tr><td>Connector Name</td><td>TWEETER RH</td></tr> <tr><td>Connector Type</td><td>TKQ2MBR-P</td></tr> </table>   | Connector No.          | D32 | Connector Name | TWEETER RH | Connector Type | TKQ2MBR-P | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>L</td><td>W</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table> | Terminal No. | 1 | 2 | Color of Wire | L | W | Signal Name [Specification] | - | - | <table border="1"> <tr><td>Connector No.</td><td>D41</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR WOOFER RH</td></tr> <tr><td>Connector Type</td><td>NSQ2FW-CS</td></tr> </table>   | Connector No. | D41 | Connector Name | FRONT DOOR WOOFER RH | Connector Type | NSQ2FW-CS | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>G</td><td>R</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table> | Terminal No. | 1 | 2 | Color of Wire | G | R | Signal Name [Specification] | - | - | <table border="1"> <tr><td>Connector No.</td><td>D46</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR SQUAWKER RH</td></tr> <tr><td>Connector Type</td><td>TKQ2FBR</td></tr> </table>   | Connector No. | D46 | Connector Name | FRONT DOOR SQUAWKER RH | Connector Type | TKQ2FBR | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>L</td><td>W</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table> | Terminal No. | 1 | 2 | Color of Wire | L | W | Signal Name [Specification] | - | - | <table border="1"> <tr><td>Connector No.</td><td>D51</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TK10MP-NS5</td></tr> </table>    | Connector No. | D51 | Connector Name | WIRE TO WIRE | Connector Type | TK10MP-NS5  | <table border="1"> <tr><td>Terminal No.</td><td>16</td><td>17</td></tr> <tr><td>Color of Wire</td><td>LG</td><td>Y</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>   | Terminal No. | 16 | 17 | Color of Wire | LG | Y             | Signal Name [Specification] | - | - |   |                             |   |   |   |   |
| Connector No.  | D32                    |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Name   | TWEETER RH             |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Type   | TKQ2MBR-P              |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Terminal No.   | 1                      | 2   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Color of Wire  | L                      | W   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Signal Name [Specification]  | -                      | -   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector No.  | D41                    |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Name   | FRONT DOOR WOOFER RH   |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Type   | NSQ2FW-CS              |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Terminal No.   | 1                      | 2   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Color of Wire  | G                      | R   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Signal Name [Specification]  | -                      | -   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector No.  | D46                    |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Name   | FRONT DOOR SQUAWKER RH |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Type   | TKQ2FBR                |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Terminal No.   | 1                      | 2   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Color of Wire  | L                      | W   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Signal Name [Specification]  | -                      | -   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector No.  | D51                    |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Name   | WIRE TO WIRE           |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Connector Type   | TK10MP-NS5             |     |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Terminal No.   | 16                     | 17  |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Color of Wire  | LG                     | Y   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |
| Signal Name [Specification]  | -                      | -   |                |            |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                      |                |           |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |                        |                |         |  |              |   |   |               |   |   |                             |   |   |  |               |     |                |              |                |             |   |              |    |    |               |    |               |                             |   |   |   |                             |   |   |   |   |








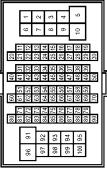



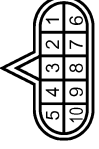



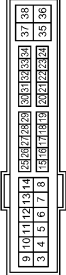
JCNWA1777GE

# BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

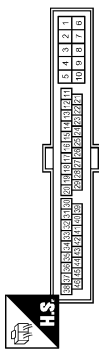
|   |  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
|---|--|------|----------------|--|----------------|-------------------|--|--------------|----|---------------|---------------|-----------------------------|---|-----------------------------|----|-----------------------------|---|---|---|
| <table border="1"> <tr><td>Connector No.</td><td>D16</td></tr> <tr><td>Connector Name</td><td>REAR DOOR SPEAKER LH</td></tr> <tr><td>Connector Type</td><td>NS02FBR-CS</td></tr> </table>     | Connector No.  | D16  | Connector Name | REAR DOOR SPEAKER LH   | Connector Type | NS02FBR-CS        | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>LG</td><td>Y</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>                                  | Terminal No. | 1  | 2             | Color of Wire | LG                          | Y | Signal Name [Specification] | -  | -                           |   |   |   |
| Connector No.   | D16  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | REAR DOOR SPEAKER LH   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | NS02FBR-CS   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 1  | 2    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | LG   | Y    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  | -    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>D71</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TK10MW-NSS</td></tr> </table>    | Connector No.  | D71  | Connector Name | WIRE TO WIRE   | Connector Type | TK10MW-NSS        | <table border="1"> <tr><td>Terminal No.</td><td>16</td><td>17</td></tr> <tr><td>Color of Wire</td><td>L</td><td>P</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>                                 | Terminal No. | 16 | 17            | Color of Wire | L                           | P | Signal Name [Specification] | -  | -                           |   |   |   |
| Connector No.   | D71  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | WIRE TO WIRE   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | TK10MW-NSS   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 16   | 17   |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | L  | P    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  | -    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>D76</td></tr> <tr><td>Connector Name</td><td>REAR DOOR SPEAKER RH</td></tr> <tr><td>Connector Type</td><td>NS02FBR-CS</td></tr> </table>     | Connector No.  | D76  | Connector Name | REAR DOOR SPEAKER RH   | Connector Type | NS02FBR-CS        | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>L</td><td>P</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>                                   | Terminal No. | 1  | 2             | Color of Wire | L                           | P | Signal Name [Specification] | -  | -                           |   |   |   |
| Connector No.   | D76  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | REAR DOOR SPEAKER RH   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | NS02FBR-CS   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 1  | 2    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | L  | P    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  | -    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>E108</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH00FW-CS16-TM4</td></tr> </table>     | Connector No.  | E108 | Connector Name | WIRE TO WIRE   | Connector Type | TH00FW-CS16-TM4   | <table border="1"> <tr><td>Terminal No.</td><td>36</td><td>44</td><td>92</td></tr> <tr><td>Color of Wire</td><td>O</td><td>G</td><td>LG</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td><td>-</td></tr> </table> | Terminal No. | 36 | 44            | 92            | Color of Wire               | O | G                           | LG | Signal Name [Specification] | - | - | - |
| Connector No.   | E108   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | WIRE TO WIRE   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | TH00FW-CS16-TM4  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 36   | 44   | 92             |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | O  | G    | LG             |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  | -    | -              |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>E107</td></tr> <tr><td>Connector Name</td><td>PARKING BRAKE SWITCH (WITH A/T)</td></tr> <tr><td>Connector Type</td><td>TB01FW</td></tr> </table>                                     | Connector No.  | E107 | Connector Name | PARKING BRAKE SWITCH (WITH A/T)                              | Connector Type | TB01FW            | <table border="1"> <tr><td>Terminal No.</td><td>1</td></tr> <tr><td>Color of Wire</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>   | Terminal No. | 1  | Color of Wire | O             | Signal Name [Specification] | - |                             |    |                             |   |   |   |
| Connector No.   | E107   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | PARKING BRAKE SWITCH (WITH A/T)                              |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | TB01FW   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 1  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | O  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>F51</td></tr> <tr><td>Connector Name</td><td>A/T ASSEMBLY</td></tr> <tr><td>Connector Type</td><td>FR10FG-DGY</td></tr> </table>     | Connector No.  | F51  | Connector Name | A/T ASSEMBLY   | Connector Type | FR10FG-DGY        | <table border="1"> <tr><td>Terminal No.</td><td>7</td></tr> <tr><td>Color of Wire</td><td>R</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>   | Terminal No. | 7  | Color of Wire | R             | Signal Name [Specification] | - |                             |    |                             |   |   |   |
| Connector No.   | F51  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | A/T ASSEMBLY   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | FR10FG-DGY   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 7  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | R  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>F56</td></tr> <tr><td>Connector Name</td><td>BACK-UP LAMP SWITCH</td></tr> <tr><td>Connector Type</td><td>FR02FB</td></tr> </table>    | Connector No.  | F56  | Connector Name | BACK-UP LAMP SWITCH  | Connector Type | FR02FB            | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>R</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>                                   | Terminal No. | 1  | 2             | Color of Wire | R                           | O | Signal Name [Specification] | -  | -                           |   |   |   |
| Connector No.   | F56  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | BACK-UP LAMP SWITCH  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | FR02FB   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 1  | 2    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | R  | O    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  | -    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>E5</td></tr> <tr><td>Connector Name</td><td>FROM I/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)</td></tr> <tr><td>Connector Type</td><td>TH00FW-CS12-M4-1V</td></tr> </table>   | Connector No.  | E5   | Connector Name | FROM I/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) | Connector Type | TH00FW-CS12-M4-1V | <table border="1"> <tr><td>Terminal No.</td><td>25</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>  | Terminal No. | 25 | Color of Wire | G             | Signal Name [Specification] | - |                             |    |                             |   |   |   |
| Connector No.   | E5   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | FROM I/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | TH00FW-CS12-M4-1V  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 25   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | G  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |

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BOSE AUDIO WITH NAVIGATION SYSTEM

|                |              |
|----------------|--------------|
| Connector No.  | F103         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK36FW-NS10  |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 30           | R             | -                           |
| 31           | R             | -                           |
| 41           | O             | -                           |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | F157                              |
| Connector Name | TOM (TRANSMISSION CONTROL MODULE) |
| Connector Type | SPT0FG                            |



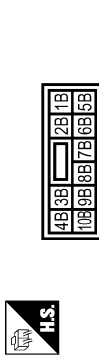
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| Terminal No. | Color of Wire | Signal Name [Specification] |
| 7            | L             | REV LAMP FLY                |

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| Connector No.  | M1               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS30FW-M2        |



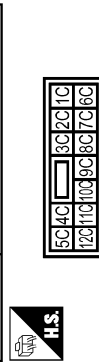
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| Terminal No. | Color of Wire | Signal Name [Specification] |
| 2A           | G             | -                           |
| 5A           | L             | -                           |

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| Connector No.  | M2               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FY-CS        |



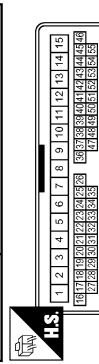
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| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1B           | SB            | -                           |

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| Connector No.  | M3               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS        |



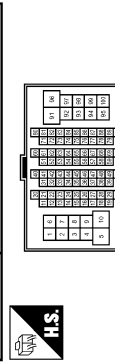
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 12C          | R             | -                           |

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|----------------|--------------|
| Connector No.  | M5           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15  |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 9            | W             | -                           |
| 10           | B             | -                           |
| 36           | W             | -                           |
| 37           | L             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | M6              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH60MW-CS16-TM4 |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 36           | O             | -                           |
| 44           | G             | -                           |
| 92           | Y             | -                           |

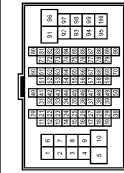
# BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]

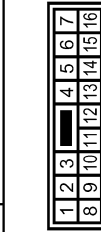
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|                |                 |
|----------------|-----------------|
| Connector No.  | M7              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH80MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | V             | -                           |
| 32           | LG            | -                           |
| 33           | SHIELD        | -                           |
| 34           | SB            | -                           |
| 35           | BR            | -                           |
| 36           | Y             | -                           |
| 37           | SHIELD        | -                           |
| 40           | O             | -                           |
| 41           | W             | -                           |
| 42           | SHIELD        | -                           |
| 43           | R             | -                           |

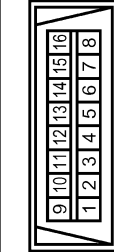
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| Connector No.  | M25          |
| Connector Name | WIRE TO WIRE |
| Connector Type | MS16MW-CS    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | BR            | -                           |
| 4            | R             | -                           |
| 5            | L             | -                           |
| 6            | LG            | -                           |
| 7            | B             | -                           |
| 10           | P             | -                           |
| 11           | L             | -                           |
| 12           | Y             | -                           |
| 13           | SB            | -                           |

|    |        |   |
|----|--------|---|
| 44 | G      | - |
| 45 | SHIELD | - |
| 46 | SB     | - |
| 58 | O      | - |
| 98 | O      | - |

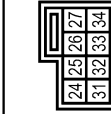
|                |                     |
|----------------|---------------------|
| Connector No.  | M24                 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW-P            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6            | L             | -                           |
| 14           | P             | -                           |

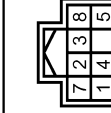
|    |   |   |
|----|---|---|
| 14 | R | - |
| 15 | G | - |
| 16 | W | - |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M26                               |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY-TV                        |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24           | P             | -                           |
| 31           | L             | -                           |
| 33           | B             | -                           |

|                |                       |
|----------------|-----------------------|
| Connector No.  | M37                   |
| Connector Name | STEERING ANGLE SENSOR |
| Connector Type | TH08FW-NH             |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | L             | SENSOR1                     |
| 4            | BR            | SENSOR2                     |
| 5            | O             | SENSOR3                     |
| 7            | B             | GND                         |
| 8            | G             | IGN                         |

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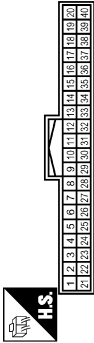
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|----------------|----------------|
| Connector No.  | M63            |
| Connector Name | CENTER SPEAKER |
| Connector Type | TKQ2EBR        |



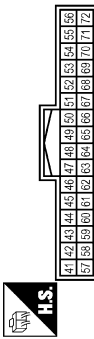
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | LG            | -                           |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M66                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH                  |



| Terminal No. | Color of Wire | Signal Name [Specification]    |
|--------------|---------------|--------------------------------|
| 28           | R             | VEHICLE SPEED SIGNAL (3-PULSE) |

|                |                            |
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| Connector No.  | M67                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH32FW-NH                  |



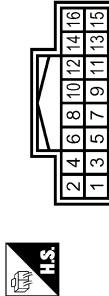
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56           | L             | CAN-H                       |
| 72           | P             | CAN-L                       |

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|----------------|--------------------|
| Connector No.  | M69                |
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | MS2BL-M2-LC        |



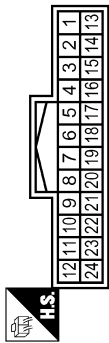
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | W             | -                           |
| 3            | LG            | -                           |
| 5            | O             | -                           |

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| Connector No.  | M72                  |
| Connector Name | MULTIFUNCTION SWITCH |
| Connector Type | TH16FW-NH            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 3            | L             | ACC                         |
| 6            | G             | AV COMM (H)                 |
| 8            | R             | AV COMM (L)                 |
| 9            | BR            | SW GND                      |
| 14           | SB            | EJECT SIGNAL                |

|                |                          |
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| Connector No.  | M75                      |
| Connector Name | DISPLAY UNIT (WITH NAVI) |
| Connector Type | TH24FW-NH                |

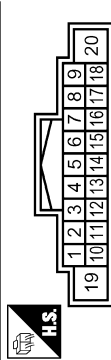


| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 2            | Y             | BATTERY                     |
| 3            | LG            | ACC                         |
| 4            | SHIELD        | SHIELD                      |
| 5            | R             | AUX IMAGE GND               |
| 6            | B             | RGB (G.GREEN) SIGNAL        |
| 7            | V             | SHIELD                      |
| 8            | R             | HP                          |
| 9            | O             | RGE AREA (VS) SIGNAL        |
| 11           | L             | COMM (CONT->DISP)           |
| 12           | W             | CAMERA IMAGE SIGNAL         |

|    |    |                   |
|----|----|-------------------|
| 13 | B  | GND               |
| 14 | B  | SHIELD            |
| 15 | G  | AUX IMAGE SIGNAL  |
| 17 | W  | RGB (RED) SIGNAL  |
| 18 | R  | RGB (BLUE) SIGNAL |
| 19 | G  | RGB SYNC          |
| 20 | W  | VP                |
| 21 | B  | SHIELD            |
| 22 | LG | COMM (DISP->CONT) |
| 23 | B  | SHIELD            |

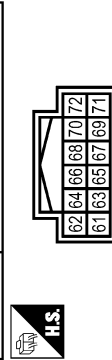
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| Connector No.  | M80                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH18FW-GS2                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SB            | AMP_ON SIGNAL               |
| 2            | O             | SOUND SIGNAL FRONT LH (+)   |
| 3            | W             | SOUND SIGNAL FRONT LH (-)   |
| 4            | V             | SOUND SIGNAL REAR LH (+)    |
| 5            | LG            | SOUND SIGNAL REAR LH (-)    |
| 6            | P             | STRG SW A                   |
| 7            | GR            | ACC                         |
| 9            | L             | ILLUMINATION                |
| 10           | B             | SHIELD                      |
| 11           | R             | SOUND SIGNAL FRONT RH (+)   |
| 12           | G             | SOUND SIGNAL FRONT RH (-)   |

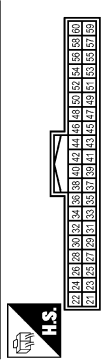
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| Connector No.  | M88                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH12FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 61           | W             | RGB (RRED) SIGNAL           |
| 62           | B             | RGB (GGREEN) SIGNAL         |
| 63           | R             | RGB (BBLUE) SIGNAL          |
| 64           | V             | SHIELD                      |
| 65           | G             | RGB SYNC                    |
| 66           | B             | SHIELD                      |
| 67           | O             | RGB AREA(YS) SIGNAL         |
| 68           | R             | HP                          |
| 69           | W             | HP                          |
| 70           | L             | COMM (CONT->DISP)           |
| 71           | LG            | COMM (DISP->CONT)           |

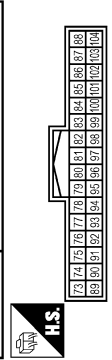
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|----|----|--------------------------|
| 13 | BR | SOUND SIGNAL REAR RH (+) |
| 14 | Y  | SOUND SIGNAL REAR RH (-) |
| 15 | B  | STRG SW GND              |
| 16 | L  | STRG SW B                |
| 19 | Y  | BATTERY                  |
| 20 | B  | GND                      |

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M87                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH40FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 21           | B             | GND                         |
| 22           | Y             | BATTERY                     |
| 23           | B             | GND                         |
| 24           | Y             | BATTERY                     |
| 25           | V             | ACC                         |
| 26           | G             | MICROPHONE VCC              |
| 27           | SHIELD        | MICROPHONE GND              |
| 28           | R             | MICROPHONE SIGNAL           |
| 35           | G             | IGNITION                    |
| 36           | SB            | PARKING BRAKE               |
| 37           | O             | REVERSE                     |

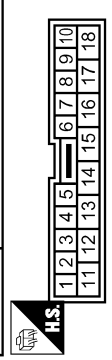
|                |                             |
|----------------|-----------------------------|
| Connector No.  | M89                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH62FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 79           | R             | IPod SOUND SIGNAL LH (+)    |
| 80           | B             | IPod SOUND SIGNAL RH (+)    |
| 81           | SHIELD        | SHIELD                      |
| 85           | SB            | EJECT SIGNAL                |
| 86           | SHIELD        | SHIELD                      |
| 87           | W             | AUX SOUND SIGNAL LH (+)     |
| 88           | B             | AUX SOUND SIGNAL GND        |
| 89           | W             | IPod SOUND SIGNAL LH (-)    |
| 96           | C             | IPod SOUND SIGNAL RH (-)    |
| 102          | BR            | SW GND                      |
| 103          | R             | AUX SOUND SIGNAL RH (+)     |

|    |    |                          |
|----|----|--------------------------|
| 38 | GR | VEHICLE SPEED (8-PUL SE) |
| 40 | W  | CONNECTION RECOGNITION   |
| 41 | B  | CONTROL SIGNAL 1         |
| 44 | SE | MODE CHANGE SIGNAL       |
| 48 | G  | AV COMM (R)              |
| 49 | R  | AV COMM (L)              |
| 50 | V  | AV COMM (R)              |
| 51 | LG | AV COMM (L)              |
| 52 | L  | CAN-H                    |
| 53 | P  | CAN-L                    |

|                |              |
|----------------|--------------|
| Connector No.  | M106         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10AMP-NS8  |



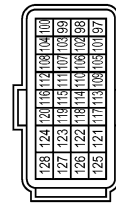
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | - [With rear view camera]   |
| 2            | G             | - [With rear view camera]   |
| 3            | SHIELD        | - [With rear view camera]   |

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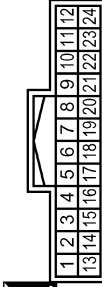
### BOSE AUDIO WITH NAVIGATION SYSTEM

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|----------------|--------------------|
| Connector No.  | M107               |
| Connector Name | ECM                |
| Connector Type | RH24FGY-R26-R-LH-Z |



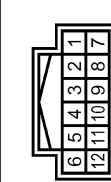
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 113          | P             | VEHCAN-L1                   |
| 114          | L             | VEHCAN-H1                   |

|                |              |
|----------------|--------------|
| Connector No.  | M111         |
| Connector Name | IPod ADAPTER |
| Connector Type | TH24FW-NH    |



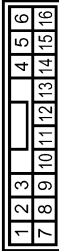
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | IPod SOUND SIGNAL LH (-)    |
| 2            | B             | IPod SOUND SIGNAL RH (-)    |
| 3            | V             | ACC                         |
| 4            | R             | AV COMM (L)                 |
| 5            | Y             | BATTERY                     |
| 8            | W             | CHARGE POWER                |
| 9            | P             | COMM (IPod ADAPTER->IPod)   |
| 10           | L             | COMM (IPod->IPod ADAPTER)   |
| 11           | O             | ACCESSORY IDENTIFY          |
| 12           | W             | IPod SOUND SIGNAL RH (+)    |
| 13           | W             | IPod SOUND SIGNAL LH (-)    |

|                |              |
|----------------|--------------|
| Connector No.  | M114         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12PW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | G             | -                           |
| 3            | O             | -                           |
| 4            | SHIELD        | -                           |
| 5            | W             | -                           |
| 6            | B             | -                           |
| 7            | R             | -                           |
| 8            | BR            | -                           |
| 9            | W             | -                           |
| 10           | W             | -                           |
| 11           | SHIELD        | -                           |

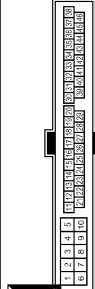
|    |        |                             |
|----|--------|-----------------------------|
| 14 | G      | IPod SOUND SIGNAL RH (-)    |
| 15 | SHIELD | SHIELD                      |
| 16 | G      | AV COMM (H)                 |
| 17 | BR     | GND                         |
| 19 | SHIELD | SHIELD                      |
| 21 | W      | IPod CONNECTION RECOGNITION |
| 22 | G      | ACCESSORY DETECT            |
| 23 | R      | IPod SOUND SIGNAL GND       |
| 24 | B      | IPod SOUND SIGNAL LH (+)    |



|                |                      |
|----------------|----------------------|
| Connector No.  | M112                 |
| Connector Name | IPod SIDE (WITH A/T) |
| Connector Type | PH16FGY              |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | IPod SOUND SIGNAL LH (+)    |
| 2            | R             | IPod SOUND SIGNAL GND       |
| 5            | L             | COMM (IPod->IPod ADAPTER)   |
| 6            | P             | COMM (IPod ADAPTER->IPod)   |
| 7            | W             | IPod SOUND SIGNAL RH (+)    |
| 9            | W             | IPod CONNECTION RECOGNITION |
| 10           | BR            | GND                         |
| 12           | W             | CHARGE POWER                |
| 14           | SHIELD        | SHIELD                      |
| 15           | G             | ACCESSORY DETECT            |
| 18           | O             | ACCESSORY IDENTIFY          |

|                |              |
|----------------|--------------|
| Connector No.  | M116         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK38MF-NS10  |

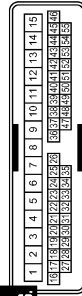


| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 30           | LG            | -                           |
| 31           | W             | -                           |
| 41           | O             | -                           |



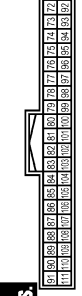
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|----------------|--------------|
| Connector No.  | M124         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MH-CS15  |



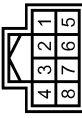
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 36           | R             | -                           |
| 37           | BR            | -                           |

|                |                           |
|----------------|---------------------------|
| Connector No.  | M122                      |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FB-NH                 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 90           | P             | CAN-L                       |
| 91           | L             | CAN-H                       |

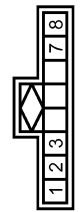
|                |              |
|----------------|--------------|
| Connector No.  | M155         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | R             | -                           |
| 4            | W             | -                           |
| 5            | B             | -                           |
| 6            | B             | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

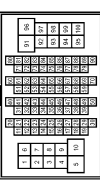
|     |   |   |
|-----|---|---|
| 67  | O | - |
| 99  | P | - |
| 100 | L | - |

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M154                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH A/T) |
| Connector Type | A08FW                            |




| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | SOUND SIGNAL RH (+)         |
| 2            | B             | SOUND SIGNAL LH (+)         |
| 3            | W             | AUX IMAGE SIGNAL            |
| 7            | G             | AUX IMAGE GND               |
| 8            | R             | AUX IMAGE GND               |

|                |                 |
|----------------|-----------------|
| Connector No.  | M117            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH03MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 51           | P             | -                           |
| 52           | V             | -                           |
| 53           | LG            | -                           |
| 54           | B             | -                           |
| 60           | Y             | -                           |
| 61           | SB            | -                           |
| 62           | W             | -                           |
| 63           | G             | -                           |
| 64           | R             | -                           |
| 65           | L             | -                           |
| 66           | BR            | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M145         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH04MW-NH    |



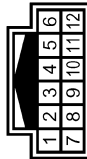
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | B             | -                           |
| 4            | W             | -                           |

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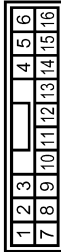
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|----------------|--------------|
| Connector No.  | M181         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             |                             |
| 2            | G             |                             |
| 3            | O             |                             |
| 4            | SHIELD        |                             |
| 5            | GR            |                             |
| 6            | BR            |                             |
| 7            | W             |                             |
| 8            | BR            |                             |
| 9            | L             |                             |
| 10           | W             |                             |
| 11           | SHIELD        |                             |
| 12           |               |                             |

|    |   |   |
|----|---|---|
| 12 | P | - |
|----|---|---|

|                |                      |
|----------------|----------------------|
| Connector No.  | M182                 |
| Connector Name | iPod SIDE (WITH M/T) |
| Connector Type | IP16FGY              |



| Terminal No. | Color of Wire | Signal Name [Specification]     |
|--------------|---------------|---------------------------------|
| 1            | BR            | iPod SOUND SIGNAL LH (+)        |
| 2            | W             | iPod SOUND SIGNAL GND           |
| 5            | L             | COMM (iPod->iPod ADAPTER)       |
| 6            | P             | COMM (iPod ADAPTER->iPod)       |
| 7            | GR            | iPod SOUND SIGNAL RH (+)        |
| 9            | W             | iPod CONNECTION RECOGNITION GND |
| 10           | BR            |                                 |
| 12           | L             | CHARGE POWER                    |
| 14           | SHIELD        | SHIELD                          |
| 15           | G             | ACCESSORY DETECT                |
| 16           | O             | ACCESSORY IDENTIFY              |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M303                              |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY                           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 14           | W             |                             |
| 15           | L             |                             |
| 17           | BR            |                             |

|                |              |
|----------------|--------------|
| Connector No.  | M381         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        |                             |
| 2            | B             |                             |
| 3            | R             |                             |
| 4            | W             |                             |
| 5            | SHIELD        |                             |
| 6            | SHIELD        |                             |
| 7            | G             |                             |
| 8            | R             |                             |

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M382                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH M/T) |
| Connector Type | A08FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             |                             |
| 2            | B             |                             |
| 3            | W             |                             |
| 7            | G             |                             |
| 8            | R             |                             |

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M371                        |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | GT33SF-2/1S-HU              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 105          | -             | FM SUB                      |
| 106          | -             | AM-FM MAIN                  |
| 107          | -             | ANTENNA AMP. ON SIGNAL      |

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M372                        |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | FAKRA-JACK                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 108          | -             | SATELLITE ANTENNA           |
| 109          | SHIELD        | SHIELD                      |

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|----------------|-----------------------------|
| Connector No.  | M373                        |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | GT15-1S-HU                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 110          | -             | GPS ANTENNA                 |
| 111          | SHIELD        | SHIELD                      |

|                |              |
|----------------|--------------|
| Connector No.  | M374         |
| Connector Name | WIRE TO WIRE |
| Connector Type | GT16C-1PP-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

|                |                |
|----------------|----------------|
| Connector No.  | M375           |
| Connector Name | WIRE TO WIRE   |
| Connector Type | GT13SC-2/1S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | M376             |
| Connector Name | WIRE TO WIRE     |
| Connector Type | GT13SON-2/1PP-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M377         |
| Connector Name | WIRE TO WIRE |
| Connector Type | GT16C-1S-HU  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

|                |                |
|----------------|----------------|
| Connector No.  | M378           |
| Connector Name | ANTENNA AMP.   |
| Connector Type | GT13SC-1/1S-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | ANTENNA AMP. ON SIGNAL      |
| 2            | -             | AM-FM MAIN                  |

|                |                     |
|----------------|---------------------|
| Connector No.  | M379                |
| Connector Name | GLASS ANTENNA (SUB) |
| Connector Type | P01FB-A             |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M380         |
| Connector Name | WIRE TO WIRE |
| Connector Type | GT16-1PP-HU  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

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| Connector No.  | M381                 |
| Connector Name | GLASS ANTENNA (MAIN) |
| Connector Type | P01FB-A              |



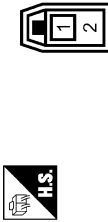
|              |   |                             |  |
|--------------|---|-----------------------------|--|
| Terminal No. | 1 | Signal Name [Specification] |  |
|--------------|---|-----------------------------|--|

|                |              |
|----------------|--------------|
| Connector No.  | M382         |
| Connector Name | WIRE TO WIRE |
| Connector Type | GT16C-IS-HU  |



|              |   |               |   |                             |   |
|--------------|---|---------------|---|-----------------------------|---|
| Terminal No. | 1 | Color of Wire | — | Signal Name [Specification] |   |
| 2            | — | SHIELD        | — | —                           | — |

|                |                         |
|----------------|-------------------------|
| Connector No.  | M383                    |
| Connector Name | SATELLITE RADIO ANTENNA |
| Connector Type | GT16C-IIP-HU            |



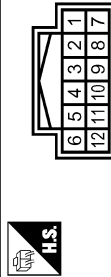
|              |   |               |   |                             |   |
|--------------|---|---------------|---|-----------------------------|---|
| Terminal No. | 1 | Color of Wire | — | Signal Name [Specification] |   |
| 2            | — | SHIELD        | — | —                           | — |

|                |              |
|----------------|--------------|
| Connector No.  | R1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK06FW-NS    |



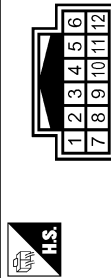
|              |   |               |   |                             |  |
|--------------|---|---------------|---|-----------------------------|--|
| Terminal No. | 1 | Color of Wire | R | Signal Name [Specification] |  |
| 2            | — | G             | — | — [With rear view camera]   |  |
| 3            | — | SHIELD        | — | — [With rear view camera]   |  |

|                |              |
|----------------|--------------|
| Connector No.  | R2           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12FW-NH    |



|              |   |               |        |                             |  |
|--------------|---|---------------|--------|-----------------------------|--|
| Terminal No. | 3 | Color of Wire | SHIELD | Signal Name [Specification] |  |
| 4            | R | —             | —      | — [With rear view camera]   |  |
| 5            | G | —             | —      | — [With rear view camera]   |  |

|                |              |
|----------------|--------------|
| Connector No.  | R11          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MW-NH    |



|              |   |               |        |                             |  |
|--------------|---|---------------|--------|-----------------------------|--|
| Terminal No. | 3 | Color of Wire | SHIELD | Signal Name [Specification] |  |
| 4            | R | —             | —      | —                           |  |
| 5            | G | —             | —      | —                           |  |

|                |            |
|----------------|------------|
| Connector No.  | R17        |
| Connector Name | MICROPHONE |
| Connector Type | TK06FW     |



|              |   |               |   |                             |  |
|--------------|---|---------------|---|-----------------------------|--|
| Terminal No. | 1 | Color of Wire | R | Signal Name [Specification] |  |
| 2            | — | SHIELD        | — | MICROPHONE SIGNAL           |  |
| 4            | G | —             | — | SHIELD                      |  |
|              |   |               |   | MICROPHONE VCC              |  |

# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

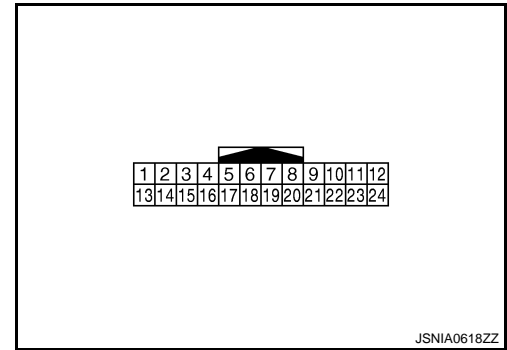
[BOSE AUDIO WITH NAVIGATION]

## IPOD ADAPTER

Reference Value

INFOID:000000004238831

TERMINAL LAYOUT



PHYSICAL VALUES

| Terminal<br>(Wire color) |           | Description                    |                  | Condition                 |                                 | Reference value<br>(Approx.)                |
|--------------------------|-----------|--------------------------------|------------------|---------------------------|---------------------------------|---|
| +                        | -         | Signal name                    | Input/<br>Output |                           |                                 |   |
| 1<br>(R)                 | 13<br>(W) | iPod sound signal LH           | Output           | Ignition<br>switch<br>ON  | When iPod mode is select-<br>ed | <p style="text-align: right;">SKIB3609E</p> |
| 2<br>(B)                 | 14<br>(G) | iPod sound signal RH           | Output           | Ignition<br>switch<br>ON  | When iPod mode is select-<br>ed | <p style="text-align: right;">SKIB3609E</p> |
| 3<br>(V)                 | Ground    | ACC power supply               | Input            | Ignition<br>switch<br>ACC | —                               | Battery voltage                             |
| 4<br>(R)                 | —         | AV communication signal<br>(L) | Input/<br>Output | —                         | —                               | —   |
| 5<br>(Y)                 | Ground    | Battery power supply           | Input            | Ignition<br>switch<br>OFF | —                               | Battery voltage                             |
| 8<br>(W)                 | Ground    | iPod battery charge            | Output           | Ignition<br>switch<br>ON  | Connected to iPod®              | 12 V  |

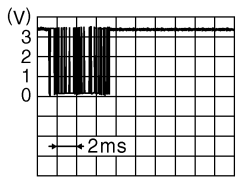
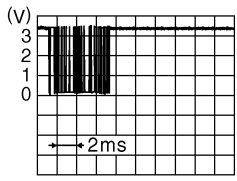
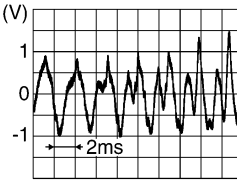
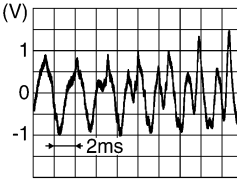
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# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

| Terminal<br>(Wire color) |           | Description                                  |                  | Condition                |   | Reference value<br>(Approx.)   |
|--------------------------|-----------|--|------------------|--------------------------|---|--|
| +                        | -         | Signal name                                  | Input/<br>Output | Ignition<br>switch<br>ON |   |  |
| 9<br>(P)                 | Ground    | Communication signal<br>(iPod adapter→iPod®) | Output           | Ignition<br>switch<br>ON | The wave pattern is displayed just after iPod connection. |  <p style="text-align: right;">JPNIA0462GB</p> <p><b>NOTE:</b><br/>After the wave pattern display, the value continues Approx 3.3 V</p> |
| 10<br>(L)                | Ground    | Communication signal<br>(iPod®→iPod adapter) | Input            | Ignition<br>switch<br>ON | Connected to iPod®  |  <p style="text-align: right;">JPNIA0462GB</p>  |
| 11<br>(O)                | Ground    | ACCESSORY-IDENTIFY                           | —                | Ignition<br>switch<br>ON | Connected to iPod®  | 0 V  |
| 12<br>(W)                | 23<br>(R) | iPod sound signal RH                         | Input            | Ignition<br>switch<br>ON | When iPod mode is selected                                |  <p style="text-align: right;">SKIB3609E</p>  |
| 15                       | —         | Shield                                       | —                | —                        | —   | —  |
| 16<br>(G)                | —         | AV communication signal<br>(H)               | Input/<br>Output | —                        | —   | —  |
| 17<br>(BR)               | Ground    | GND  | —                | Ignition<br>switch<br>ON | —   | 0 V  |
| 19                       | —         | Shield                                       | —                | —                        | —   | —  |
| 21<br>(W)                | Ground    | iPod connection recognition signal           | Input            | Ignition<br>switch<br>ON | Not connected to iPod®                                    | 4 V  |
|                          |           |  |                  |                          | Connected to iPod®  | 0 V  |
| 22<br>(G)                | Ground    | ACCESSORY-DETECT                             | —                | Ignition<br>switch<br>ON | Connected to iPod®  | 0 V  |
| 24<br>(B)                | 23<br>(R) | iPod sound signal LH                         | Input            | Ignition<br>switch<br>ON | When iPod mode is selected                                |  <p style="text-align: right;">SKIB3609E</p>  |

# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

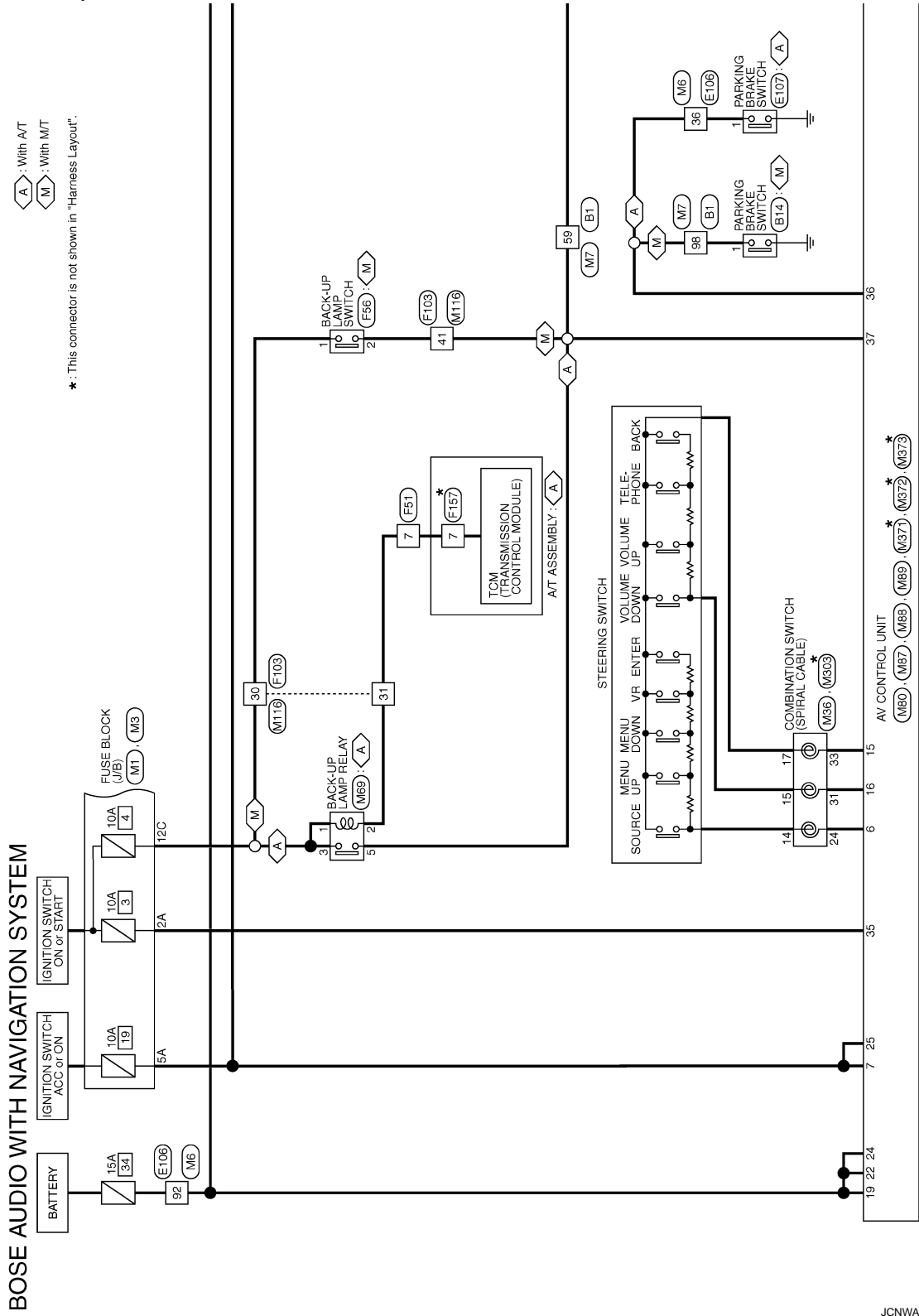
[BOSE AUDIO WITH NAVIGATION]

## Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM -

INFOID:000000004501731

### NOTE:

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.



2008/08/07

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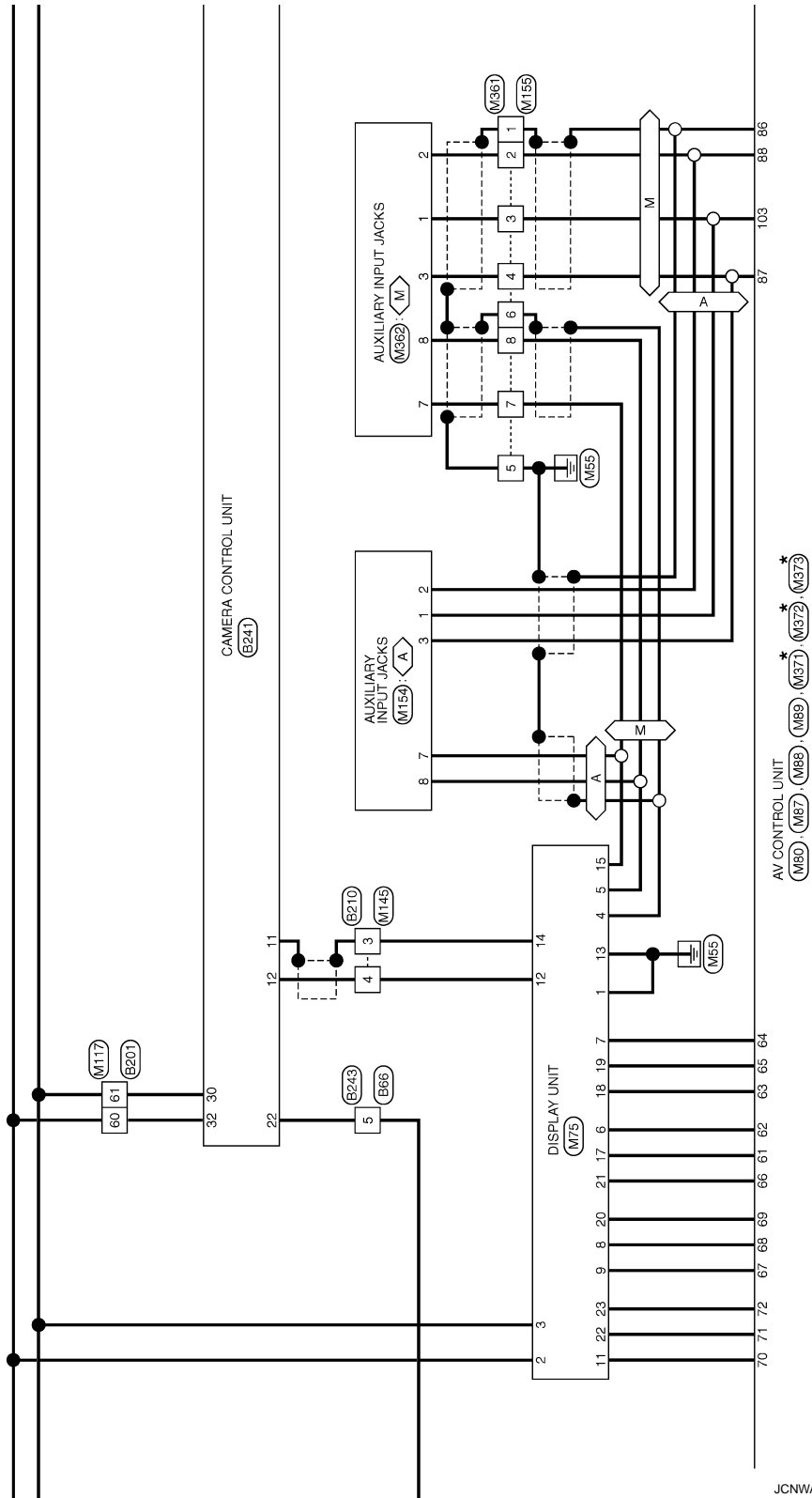
AV

# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

A : With A/T  
M : With M/T  
 \* : This connector is not shown in "Harness Layout".



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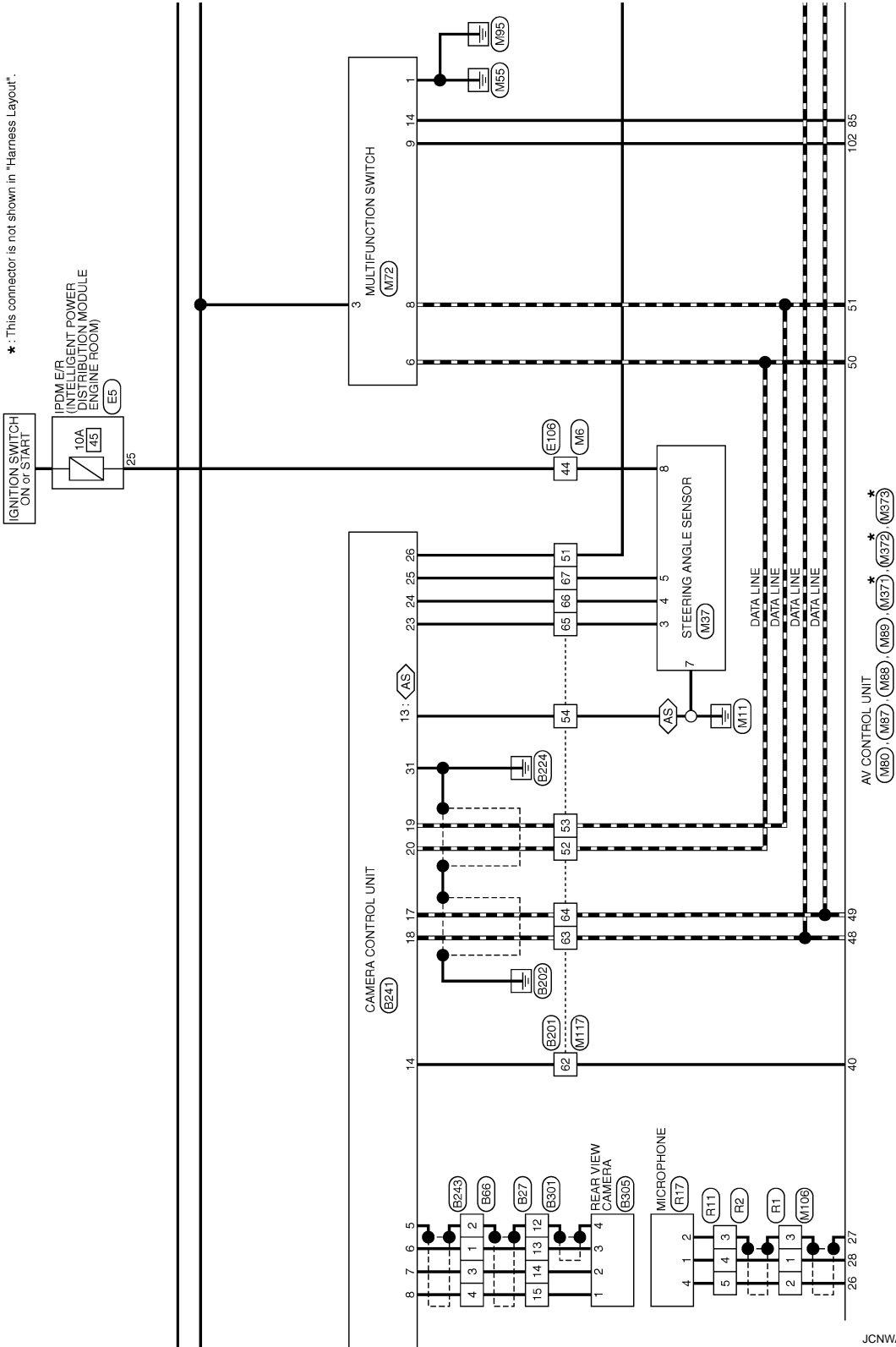
# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

AS : With 4MAS

\* : This connector is not shown in "Harness Layout".



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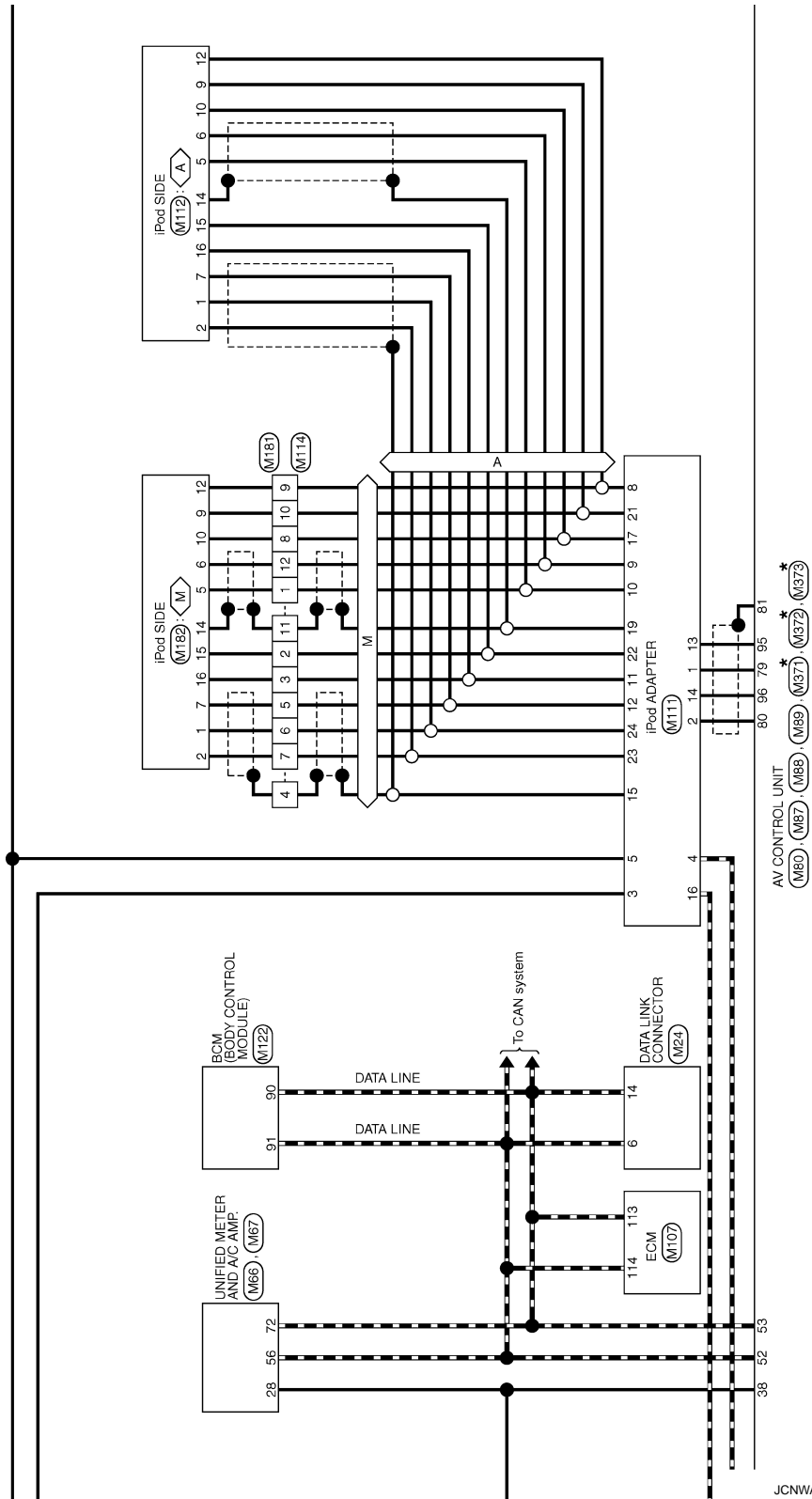
# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

◊ : With A/T  
 ◊ : With M/T

\*: This connector is not shown in "Harness Layout".

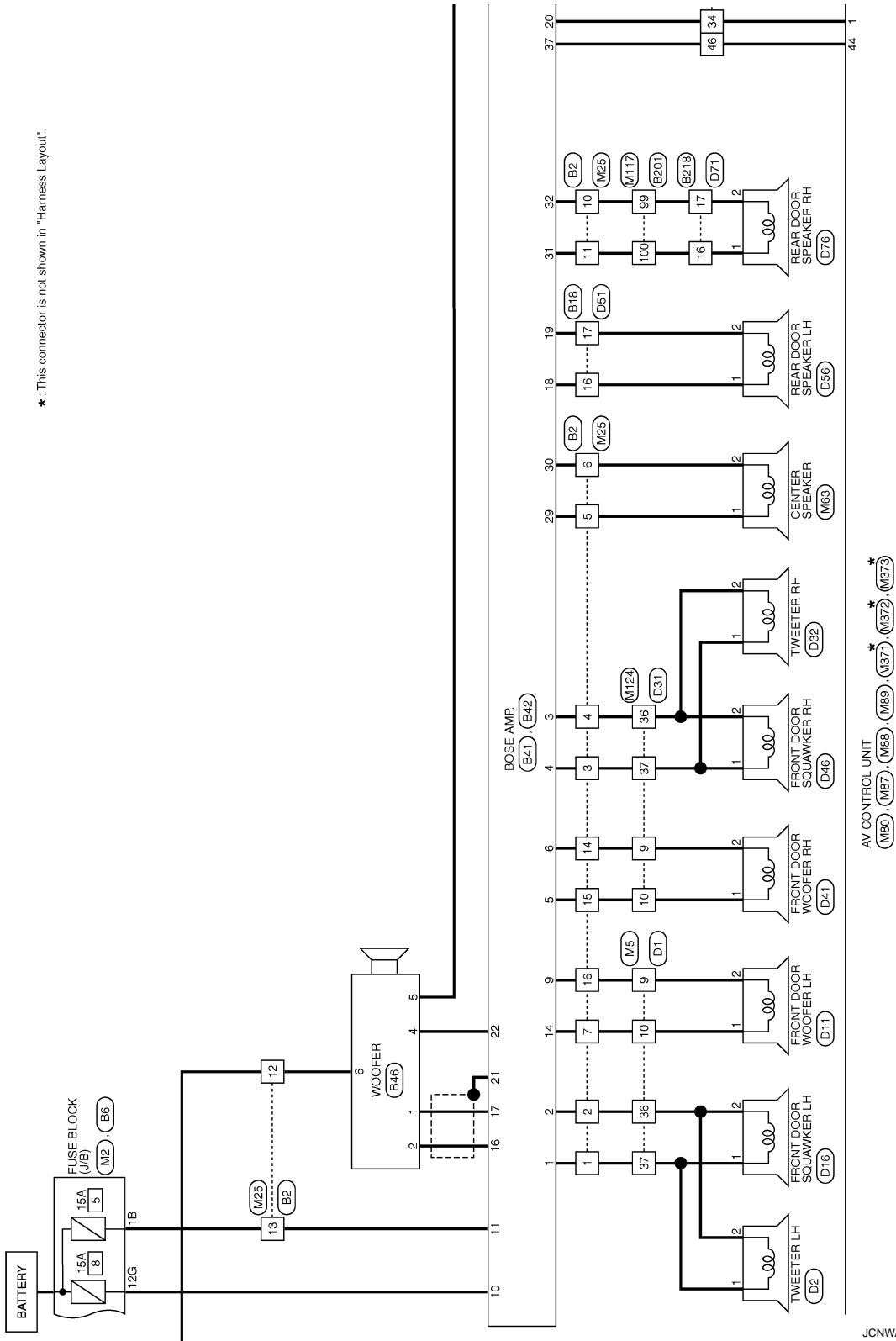


JCNWA1771GE

# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]



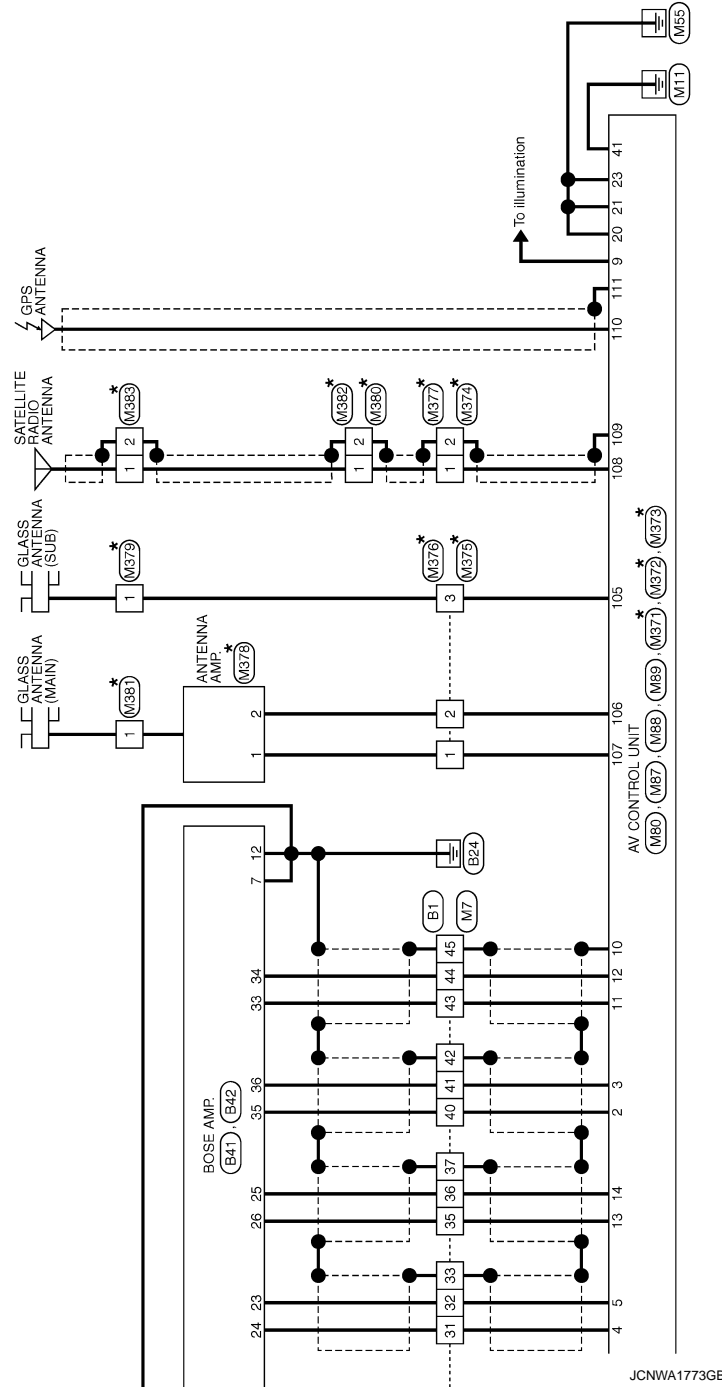
JCNWA1772GE

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# IPOD ADAPTER

\*: This connector is not shown in "Harness Layout".



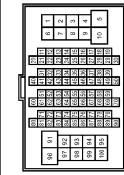
# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                 |
|----------------|-----------------|
| Connector No.  | B1              |
| Wire to Wire   | WIRE TO WIRE    |
| Connector Type | TR10PW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | V             | -                           |
| 32           | SB            | -                           |
| 33           | SHIELD        | -                           |
| 34           | W             | -                           |
| 35           | BR            | -                           |
| 36           | Y             | -                           |
| 37           | SHIELD        | -                           |
| 40           | P             | -                           |
| 41           | L             | -                           |
| 42           | SHIELD        | -                           |
| 43           | R             | -                           |

|    |        |   |
|----|--------|---|
| 44 | G      | - |
| 45 | SHIELD | - |
| 46 | SB     | - |
| 58 | V      | - |
| 98 | V      | - |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | V             | -                           |
| 4            | LG            | -                           |
| 5            | L             | -                           |
| 6            | O             | -                           |
| 7            | B             | -                           |
| 10           | Y             | -                           |
| 11           | LG            | -                           |
| 12           | P             | -                           |
| 13           | GR            | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | B2           |
| Wire to Wire   | WIRE TO WIRE |
| Connector Type | NS16FW-CS    |



|    |   |   |
|----|---|---|
| 14 | R | - |
| 15 | G | - |
| 16 | W | - |

|                |                  |
|----------------|------------------|
| Connector No.  | B6               |
| Wire to Wire   | FUSE BLOCK (J/B) |
| Connector Type | NS12FB-CS        |



|                |                                 |
|----------------|---------------------------------|
| Connector No.  | B14                             |
| Wire to Wire   | PARKING BRAKE SWITCH (WITH M/T) |
| Connector Type | P01FB-A                         |



|                |              |
|----------------|--------------|
| Connector No.  | B18          |
| Wire to Wire   | WIRE TO WIRE |
| Connector Type | TR10PW-NSB   |



|                |              |
|----------------|--------------|
| Connector No.  | B27          |
| Wire to Wire   | WIRE TO WIRE |
| Connector Type | NS16MW-CS    |



|              |     |   |   |
|--------------|-----|---|---|
| Terminal No. | 12G | Y | - |
|--------------|-----|---|---|

|              |   |   |   |
|--------------|---|---|---|
| Terminal No. | 1 | V | - |
|--------------|---|---|---|

|              |    |   |   |
|--------------|----|---|---|
| Terminal No. | 16 | L | - |
| 17           | P  | - | - |

|              |    |        |   |
|--------------|----|--------|---|
| Terminal No. | 12 | SHIELD | - |
| 13           | B  | -      | - |
| 14           | W  | -      | - |
| 15           | R  | -      | - |

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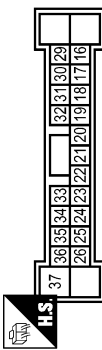
# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |               |
|----------------|---------------|
| Connector No.  | B41           |
| Connector Name | BOSE AMP.     |
| Connector Type | SCA19FBR-SG44 |



|    |    |                               |
|----|----|-------------------------------|
| 29 | L  | SOUND SIGNAL CENTER (+)       |
| 30 | O  | SOUND SIGNAL CENTER (-)       |
| 31 | LG | SOUND SIGNAL REAR DOOR RH (+) |
| 32 | Y  | SOUND SIGNAL REAR DOOR RH (-) |
| 33 | R  | SOUND SIGNAL FRONT RH (+)     |
| 34 | G  | SOUND SIGNAL FRONT RH (-)     |
| 35 | P  | SOUND SIGNAL FRONT LH (+)     |
| 36 | L  | SOUND SIGNAL FRONT LH (-)     |
| 37 | SB | MODE CHANGE SIGNAL            |

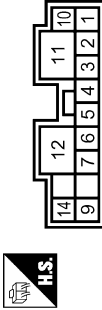
| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 16           | SB            | SOUND SIGNAL WOOFER (+)       |
| 17           | V             | SOUND SIGNAL WOOFER (-)       |
| 18           | L             | SOUND SIGNAL REAR DOOR LH (+) |
| 19           | P             | SOUND SIGNAL REAR DOOR LH (-) |
| 20           | W             | AMP. ON SIGNAL                |
| 21           | SHIELD        | SHIELD                        |
| 22           | GR            | WOOFER AMP. ON SIGNAL         |
| 23           | SB            | SOUND SIGNAL REAR LH (+)      |
| 24           | V             | SOUND SIGNAL REAR LH (-)      |
| 25           | Y             | SOUND SIGNAL REAR RH (+)      |
| 26           | BR            | SOUND SIGNAL REAR RH (-)      |

|                |            |
|----------------|------------|
| Connector No.  | B46        |
| Connector Name | WOOFER     |
| Connector Type | MS08FBR-CS |



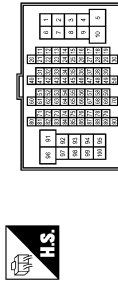
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | V             | SOUND SIGNAL WOOFER (-)     |
| 2            | SB            | SOUND SIGNAL WOOFER (+)     |
| 4            | GR            | WOOFER AMP. ON SIGNAL       |
| 5            | B             | GND                         |
| 6            | P             | BATTERY                     |

|                |               |
|----------------|---------------|
| Connector No.  | B42           |
| Connector Name | BOSE AMP.     |
| Connector Type | SCA12FBR-SJA2 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | FRONT DOOR SQUAWKER LH (+)  |
| 2            | W             | FRONT DOOR SQUAWKER LH (-)  |
| 3            | LG            | FRONT DOOR SQUAWKER RH (+)  |
| 4            | V             | FRONT DOOR SQUAWKER RH (-)  |
| 5            | G             | FRONT DOOR WOOFER RH (+)    |
| 6            | R             | FRONT DOOR WOOFER RH (-)    |
| 7            | B             | GND                         |
| 9            | W             | FRONT DOOR WOOFER LH (-)    |
| 10           | Y             | BATTERY                     |
| 11           | GR            | BATTERY                     |
| 12           | B             | GND                         |

|                |                    |
|----------------|--------------------|
| Connector No.  | E201               |
| Connector Name | WIRE TO WIRE       |
| Connector Type | TH103PW-CS (P-TM4) |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 51           | V             | -                           |
| 52           | G             | -                           |
| 53           | R             | -                           |
| 54           | B             | -                           |
| 60           | L             | -                           |
| 61           | LG            | -                           |
| 62           | P             | -                           |
| 63           | Y             | -                           |
| 64           | BR            | -                           |
| 65           | W             | -                           |
| 66           | R             | -                           |

|    |   |                          |
|----|---|--------------------------|
| 14 | B | FRONT DOOR WOOFER LH (+) |
|----|---|--------------------------|

|     |   |   |
|-----|---|---|
| 67  | O | - |
| 69  | P | - |
| 100 | L | - |

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# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |              |
|----------------|--------------|
| Connector No.  | B210         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH04FW-NH    |



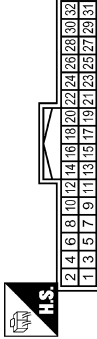
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | SHIELD        | -                           |
| 4            | W             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | B218         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NSB   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | L             | -                           |
| 17           | P             | -                           |

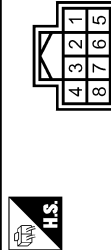
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| Connector No.  | B241                |
| Connector Name | CAMERA CONTROL UNIT |
| Connector Type | TH03FW-NH           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 5            | SHIELD        | SHIELD                      |
| 6            | B             | CAMERA IMAGE SIGNAL         |
| 7            | W             | GND                         |
| 8            | R             | CAMERA ON SIGNAL            |
| 11           | SHIELD        | SHIELD                      |
| 12           | W             | CAMERA IMAGE SIGNAL         |
| 13           | B             | CONTROL SIGNAL              |
| 14           | P             | CONNECTION RECOGNITION      |
| 17           | BR            | AV COMM (L)                 |
| 18           | Y             | AV COMM (H)                 |
| 19           | R             | AV COMM (L)                 |

|    |    |                         |
|----|----|-------------------------|
| 20 | G  | AV COMM (H)             |
| 22 | GR | REVERSE                 |
| 23 | W  | SENSOR SIGNAL 1         |
| 24 | R  | SENSOR SIGNAL 2         |
| 25 | O  | SENSOR SIGNAL 3         |
| 28 | V  | VEHICLE SPEED (8-PULSE) |
| 30 | LG | ACC                     |
| 31 | B  | GND                     |
| 32 | L  | BATTERY                 |

|                |              |
|----------------|--------------|
| Connector No.  | B243         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | -                           |
| 2            | SHIELD        | -                           |
| 3            | W             | -                           |
| 4            | R             | -                           |
| 5            | GR            | -                           |

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|----------------|--------------|
| Connector No.  | B201         |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS18FW-CS    |



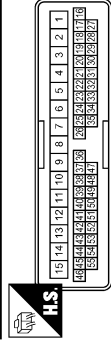
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 12           | SHIELD        | -                           |
| 13           | Y             | -                           |
| 14           | L             | -                           |
| 15           | R             | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | B205             |
| Connector Name | REAR VIEW CAMERA |
| Connector Type | TH03MW-NH        |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | CAMERA ON SIGNAL            |
| 2            | L             | GND                         |
| 3            | Y             | CAMERA IMAGE SIGNAL         |
| 4            | SHIELD        | SHIELD                      |

|                |              |
|----------------|--------------|
| Connector No.  | D1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 36           | W             | -                           |
| 37           | L             | -                           |

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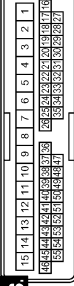







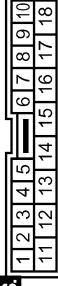
AV

# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

| <table border="1"> <tr><td>Connector No.</td><td>D2</td></tr> <tr><td>Connector Name</td><td>TWEETER LH</td></tr> <tr><td>Connector Type</td><td>TK02M8R-P</td></tr> </table>   <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>L</td><td>-</td></tr> <tr><td>2</td><td>W</td><td>-</td></tr> </table>  | Connector No.          | D2                          | Connector Name | TWEETER LH | Connector Type | TK02M8R-P | Terminal No. | Color of Wire | Signal Name [Specification] | 1 | L | - | 2 | W | - | <table border="1"> <tr><td>Connector No.</td><td>D11</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR WOOFER LH</td></tr> <tr><td>Connector Type</td><td>NS02FW-CS</td></tr> </table>   <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>G</td><td>-</td></tr> <tr><td>2</td><td>R</td><td>-</td></tr> </table> | Connector No. | D11 | Connector Name | FRONT DOOR WOOFER LH | Connector Type | NS02FW-CS | Terminal No. | Color of Wire | Signal Name [Specification] | 1 | G | - | 2 | R | - | <table border="1"> <tr><td>Connector No.</td><td>D16</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR SQUAWKER LH</td></tr> <tr><td>Connector Type</td><td>TK02FBR</td></tr> </table>   <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>L</td><td>-</td></tr> <tr><td>2</td><td>W</td><td>-</td></tr> </table> | Connector No. | D16 | Connector Name | FRONT DOOR SQUAWKER LH | Connector Type | TK02FBR | Terminal No. | Color of Wire | Signal Name [Specification] | 1 | L | - | 2 | W | - | <table border="1"> <tr><td>Connector No.</td><td>D31</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH40FY-CS/5</td></tr> </table>   <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>9</td><td>R</td><td>-</td></tr> <tr><td>10</td><td>G</td><td>-</td></tr> <tr><td>36</td><td>W</td><td>-</td></tr> <tr><td>37</td><td>L</td><td>-</td></tr> </table> | Connector No. | D31 | Connector Name | WIRE TO WIRE | Connector Type | TH40FY-CS/5 | Terminal No. | Color of Wire | Signal Name [Specification] | 9  | R  | - | 10 | G | - | 36 | W | - | 37 | L | - |
|---|------------------------|-----------------------------|----------------|------------|----------------|-----------|--------------|---------------|-----------------------------|---|---|---|---|---|---|---|---------------|-----|----------------|----------------------|----------------|-----------|--------------|---------------|-----------------------------|---|---|---|---|---|---|---|---------------|-----|----------------|------------------------|----------------|---------|--------------|---------------|-----------------------------|---|---|---|---|---|---|--|---------------|-----|----------------|--------------|----------------|-------------|--------------|---------------|-----------------------------|----|----|---|----|---|---|----|---|---|----|---|---|
| Connector No.   | D2                     |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector Name  | TWEETER LH             |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector Type  | TK02M8R-P              |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Terminal No.  | Color of Wire          | Signal Name [Specification] |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| 1   | L                      | -                           |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| 2   | W                      | -                           |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector No.   | D11                    |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector Name  | FRONT DOOR WOOFER LH   |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector Type  | NS02FW-CS              |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Terminal No.  | Color of Wire          | Signal Name [Specification] |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| 1   | G                      | -                           |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| 2   | R                      | -                           |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector No.   | D16                    |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector Name  | FRONT DOOR SQUAWKER LH |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector Type  | TK02FBR                |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Terminal No.  | Color of Wire          | Signal Name [Specification] |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| 1   | L                      | -                           |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| 2   | W                      | -                           |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector No.   | D31                    |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector Name  | WIRE TO WIRE           |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector Type  | TH40FY-CS/5            |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Terminal No.  | Color of Wire          | Signal Name [Specification] |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| 9   | R                      | -                           |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| 10  | G                      | -                           |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| 36  | W                      | -                           |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| 37  | L                      | -                           |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>D32</td></tr> <tr><td>Connector Name</td><td>TWEETER RH</td></tr> <tr><td>Connector Type</td><td>TK02M8R-P</td></tr> </table>   <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>L</td><td>-</td></tr> <tr><td>2</td><td>W</td><td>-</td></tr> </table> | Connector No.          | D32                         | Connector Name | TWEETER RH | Connector Type | TK02M8R-P | Terminal No. | Color of Wire | Signal Name [Specification] | 1 | L | - | 2 | W | - | <table border="1"> <tr><td>Connector No.</td><td>D41</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR WOOFER RH</td></tr> <tr><td>Connector Type</td><td>NS02FW-CS</td></tr> </table>   <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>G</td><td>-</td></tr> <tr><td>2</td><td>R</td><td>-</td></tr> </table> | Connector No. | D41 | Connector Name | FRONT DOOR WOOFER RH | Connector Type | NS02FW-CS | Terminal No. | Color of Wire | Signal Name [Specification] | 1 | G | - | 2 | R | - | <table border="1"> <tr><td>Connector No.</td><td>D46</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR SQUAWKER RH</td></tr> <tr><td>Connector Type</td><td>TK02FBR</td></tr> </table>   <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>L</td><td>-</td></tr> <tr><td>2</td><td>W</td><td>-</td></tr> </table> | Connector No. | D46 | Connector Name | FRONT DOOR SQUAWKER RH | Connector Type | TK02FBR | Terminal No. | Color of Wire | Signal Name [Specification] | 1 | L | - | 2 | W | - | <table border="1"> <tr><td>Connector No.</td><td>D51</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TK10MP-NS8</td></tr> </table>   <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>16</td><td>LG</td><td>-</td></tr> <tr><td>17</td><td>Y</td><td>-</td></tr> </table>  | Connector No. | D51 | Connector Name | WIRE TO WIRE | Connector Type | TK10MP-NS8  | Terminal No. | Color of Wire | Signal Name [Specification] | 16 | LG | - | 17 | Y | - |    |   |   |    |   |   |
| Connector No.   | D32                    |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector Name  | TWEETER RH             |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector Type  | TK02M8R-P              |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Terminal No.  | Color of Wire          | Signal Name [Specification] |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| 1   | L                      | -                           |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| 2   | W                      | -                           |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector No.   | D41                    |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector Name  | FRONT DOOR WOOFER RH   |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector Type  | NS02FW-CS              |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Terminal No.  | Color of Wire          | Signal Name [Specification] |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| 1   | G                      | -                           |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| 2   | R                      | -                           |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector No.   | D46                    |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector Name  | FRONT DOOR SQUAWKER RH |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector Type  | TK02FBR                |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Terminal No.  | Color of Wire          | Signal Name [Specification] |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| 1   | L                      | -                           |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| 2   | W                      | -                           |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector No.   | D51                    |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector Name  | WIRE TO WIRE           |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Connector Type  | TK10MP-NS8             |                             |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| Terminal No.  | Color of Wire          | Signal Name [Specification] |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| 16  | LG                     | -                           |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |
| 17  | Y                      | -                           |                |            |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                      |                |           |              |               |                             |   |   |   |   |   |   |   |               |     |                |                        |                |         |              |               |                             |   |   |   |   |   |   |  |               |     |                |              |                |             |              |               |                             |    |    |   |    |   |   |    |   |   |    |   |   |

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# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

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|----------------|----------------------|
| Connector No.  | D16                  |
| Connector Name | REAR DOOR SPEAKER LH |
| Connector Type | NS02FBR-CS           |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | LG            | -                           |
| 2            | Y             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | D71          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MW-NSS   |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 16           | L             | -                           |
| 17           | P             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | D76                  |
| Connector Name | REAR DOOR SPEAKER RH |
| Connector Type | NS02FBR-CS           |



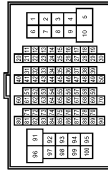
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | L             | -                           |
| 2            | P             | -                           |

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|----------------|--|
| Connector No.  | E5   |
| Connector Name | FROM L/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM) |
| Connector Type | TH02FW-CS/2-M4-1V  |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 25           | G             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | E108            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH02FW-CS16-TM4 |



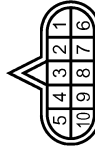
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 36           | O             | -                           |
| 44           | G             | -                           |
| 92           | LG            | -                           |

|                |                                 |
|----------------|---------------------------------|
| Connector No.  | E107                            |
| Connector Name | PARKING BRAKE SWITCH (WITH A/T) |
| Connector Type | TB01FW                          |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | O             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | F51          |
| Connector Name | A/T ASSEMBLY |
| Connector Type | FR10FG-DGY   |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 7            | R             | -                           |

|                |                     |
|----------------|---------------------|
| Connector No.  | F56                 |
| Connector Name | BACK-UP LAMP SWITCH |
| Connector Type | FR02FB              |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | R             | -                           |
| 2            | O             | -                           |

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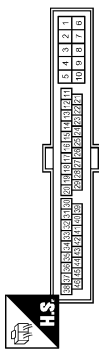
# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |              |
|----------------|--------------|
| Connector No.  | F103         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK36FW-NS10  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 30           | R             | -                           |
| 31           | R             | -                           |
| 41           | O             | -                           |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | F157                              |
| Connector Name | TOM (TRANSMISSION CONTROL MODULE) |
| Connector Type | SPT0FG                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 7            | L             | REV LAMP FLY                |

|                |                  |
|----------------|------------------|
| Connector No.  | M1               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS30FW-M2        |



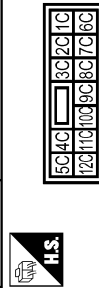
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 2A           | G             | -                           |
| 5A           | L             | -                           |

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| Connector No.  | M2               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FY-CS        |



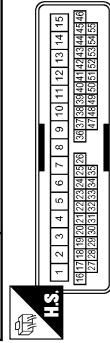
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1B           | SB            | -                           |

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| Connector No.  | M3               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS        |



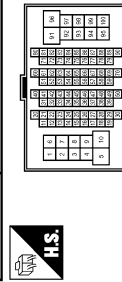
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 12C          | R             | -                           |

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|----------------|--------------|
| Connector No.  | M5           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | W             | -                           |
| 10           | B             | -                           |
| 36           | W             | -                           |
| 37           | L             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | M6              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH60MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 36           | O             | -                           |
| 44           | G             | -                           |
| 92           | Y             | -                           |

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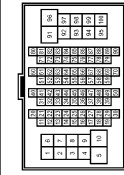
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[BOSE AUDIO WITH NAVIGATION]

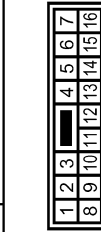
## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                 |
|----------------|-----------------|
| Connector No.  | M7              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH80MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | V             | -                           |
| 32           | LG            | -                           |
| 33           | SHIELD        | -                           |
| 34           | SB            | -                           |
| 35           | BR            | -                           |
| 36           | Y             | -                           |
| 37           | SHIELD        | -                           |
| 40           | O             | -                           |
| 41           | W             | -                           |
| 42           | SHIELD        | -                           |
| 43           | R             | -                           |

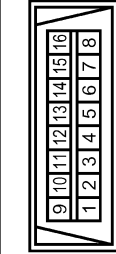
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|----------------|--------------|
| Connector No.  | M25          |
| Connector Name | WIRE TO WIRE |
| Connector Type | MS16MW-CS    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | BR            | -                           |
| 4            | R             | -                           |
| 5            | L             | -                           |
| 6            | LG            | -                           |
| 7            | B             | -                           |
| 10           | P             | -                           |
| 11           | L             | -                           |
| 12           | Y             | -                           |
| 13           | SB            | -                           |

|    |        |   |
|----|--------|---|
| 44 | G      | - |
| 45 | SHIELD | - |
| 46 | SB     | - |
| 58 | O      | - |
| 98 | O      | - |

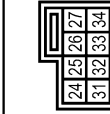
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|----------------|---------------------|
| Connector No.  | M24                 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD16FW-P            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6            | L             | -                           |
| 14           | P             | -                           |

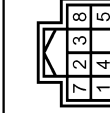
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|----|---|---|
| 14 | R | - |
| 15 | G | - |
| 16 | W | - |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M26                               |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY-TV                        |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24           | P             | -                           |
| 31           | L             | -                           |
| 33           | B             | -                           |

|                |                       |
|----------------|-----------------------|
| Connector No.  | M37                   |
| Connector Name | STEERING ANGLE SENSOR |
| Connector Type | TH08FW-NH             |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | L             | SENSOR1                     |
| 4            | BR            | SENSOR2                     |
| 5            | O             | SENSOR3                     |
| 7            | B             | GND                         |
| 8            | G             | IGN                         |

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AV

# IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

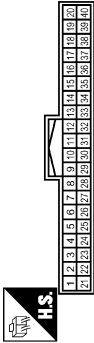
## BOSE AUDIO WITH NAVIGATION SYSTEM

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|----------------|----------------|
| Connector No.  | M63            |
| Connector Name | CENTER SPEAKER |
| Connector Type | TKQ2EBR        |



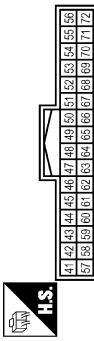
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | LG            | -                           |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M66                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH                  |



| Terminal No. | Color of Wire | Signal Name [Specification]    |
|--------------|---------------|--------------------------------|
| 28           | R             | VEHICLE SPEED SIGNAL (3-PULSE) |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M67                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH432FW-NH                 |



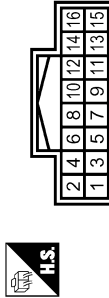
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56           | L             | CAN-H                       |
| 72           | P             | CAN-L                       |

|                |                    |
|----------------|--------------------|
| Connector No.  | M69                |
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | MS2BEL-M2-1C       |



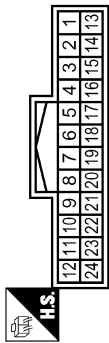
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | W             | -                           |
| 3            | LG            | -                           |
| 5            | O             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | M72                  |
| Connector Name | MULTIFUNCTION SWITCH |
| Connector Type | TH10FW-NH            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 3            | L             | ACC                         |
| 6            | G             | AV COMM (H)                 |
| 8            | R             | AV COMM (L)                 |
| 9            | BR            | SW GND                      |
| 14           | SB            | EJECT SIGNAL                |

|                |                          |
|----------------|--------------------------|
| Connector No.  | M75                      |
| Connector Name | DISPLAY UNIT (WITH NAVI) |
| Connector Type | TH24FW-NH                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 2            | Y             | BATTERY                     |
| 3            | LG            | ACC                         |
| 4            | SHIELD        | SHIELD                      |
| 5            | R             | AUX IMAGE GND               |
| 6            | B             | RGB (G.GREEN) SIGNAL        |
| 7            | V             | SHIELD                      |
| 8            | R             | HP                          |
| 9            | O             | RGE AREA (VS) SIGNAL        |
| 11           | L             | COMM (CONT->DISP)           |
| 12           | W             | CAMERA IMAGE SIGNAL         |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 13           | B             | GND                         |
| 14           | B             | SHIELD                      |
| 15           | G             | AUX IMAGE SIGNAL            |
| 17           | W             | RGB (R.RED) SIGNAL          |
| 18           | R             | RGB (B.BLUE) SIGNAL         |
| 19           | G             | RGB SYNC                    |
| 20           | W             | VP                          |
| 21           | B             | SHIELD                      |
| 22           | LG            | COMM (DISP->CONT)           |
| 23           | B             | SHIELD                      |

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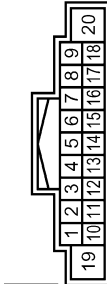
# IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

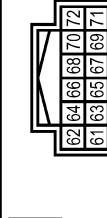
## BOSE AUDIO WITH NAVIGATION SYSTEM

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|----------------|-----------------------------|
| Connector No.  | M80                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH18FW-GS2                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SB            | AMP_ON SIGNAL               |
| 2            | O             | SOUND SIGNAL FRONT LH (+)   |
| 3            | W             | SOUND SIGNAL FRONT LH (-)   |
| 4            | V             | SOUND SIGNAL REAR LH (+)    |
| 5            | LG            | SOUND SIGNAL REAR LH (-)    |
| 6            | P             | STRG SW A                   |
| 7            | GR            | ACC                         |
| 9            | L             | ILLUMINATION                |
| 10           | B             | SHIELD                      |
| 11           | R             | SOUND SIGNAL FRONT RH (+)   |
| 12           | G             | SOUND SIGNAL FRONT RH (-)   |

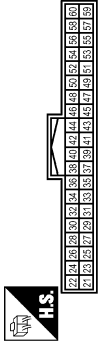
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|----------------|-----------------------------|
| Connector No.  | M88                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH12FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 61           | W             | RGB (R/RED) SIGNAL          |
| 62           | B             | RGB (G/GREEN) SIGNAL        |
| 63           | R             | RGB (B/BLUE) SIGNAL         |
| 64           | V             | SHIELD                      |
| 65           | G             | RGB SYNC                    |
| 66           | B             | SHIELD                      |
| 67           | O             | RGB AREA(YS) SIGNAL         |
| 68           | R             | UP                          |
| 69           | W             | UP                          |
| 70           | L             | COMM (CONT->DISP)           |
| 71           | LG            | COMM (DISP->CONT)           |

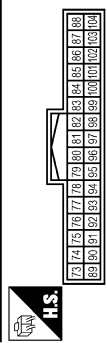
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|----|----|--------------------------|
| 13 | BR | SOUND SIGNAL REAR RH (+) |
| 14 | Y  | SOUND SIGNAL REAR RH (-) |
| 15 | B  | STRG SW GND              |
| 16 | L  | STRG SW B                |
| 18 | Y  | BATTERY                  |
| 20 | B  | GND                      |

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M87                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH40FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 21           | B             | GND                         |
| 22           | Y             | BATTERY                     |
| 23           | B             | GND                         |
| 24           | Y             | BATTERY                     |
| 25           | V             | ACC                         |
| 26           | G             | MICROPHONE VCC              |
| 27           | SHIELD        | MICROPHONE GND              |
| 28           | R             | MICROPHONE SIGNAL           |
| 35           | G             | IGNITION                    |
| 36           | SB            | PARKING BRAKE               |
| 37           | O             | REVERSE                     |

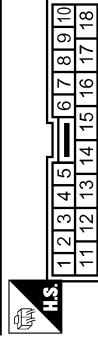
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|----------------|-----------------------------|
| Connector No.  | M89                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH62FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 79           | R             | IPod SOUND SIGNAL LH (+)    |
| 80           | B             | IPod SOUND SIGNAL RH (+)    |
| 81           | SHIELD        | SHIELD                      |
| 85           | SB            | EJECT SIGNAL                |
| 86           | SHIELD        | SHIELD                      |
| 87           | W             | AUX SOUND SIGNAL LH (+)     |
| 88           | B             | AUX SOUND SIGNAL GND        |
| 89           | W             | IPod SOUND SIGNAL LH (-)    |
| 96           | C             | IPod SOUND SIGNAL RH (-)    |
| 102          | BR            | SW GND                      |
| 103          | R             | AUX SOUND SIGNAL RH (+)     |

|    |    |                          |
|----|----|--------------------------|
| 38 | GR | VEHICLE SPEED (8-PUL SE) |
| 40 | W  | CONNECTION RECOGNITION   |
| 41 | B  | CONTROL SIGNAL 1         |
| 44 | SE | MODE CHANGE SIGNAL       |
| 46 | G  | AV COMM (R)              |
| 49 | R  | AV COMM (L)              |
| 50 | V  | AV COMM (R)              |
| 51 | LG | AV COMM (L)              |
| 52 | L  | CAN-H                    |
| 53 | P  | CAN-L                    |

|                |              |
|----------------|--------------|
| Connector No.  | M106         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10AMP-NS8  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | - [With rear view camera]   |
| 2            | G             | - [With rear view camera]   |
| 3            | SHIELD        | - [With rear view camera]   |

A B C D E F G H I J K L M N O P

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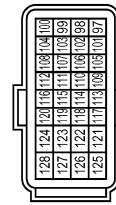
# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

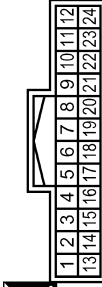
## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                    |
|----------------|--------------------|
| Connector No.  | M107               |
| Connector Name | ECM                |
| Connector Type | RH24FGY-R26-R-LH-Z |



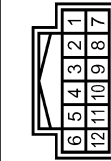
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 113          | P             | VEHCAN-L1                   |
| 114          | L             | VEHCAN-H1                   |

|                |              |
|----------------|--------------|
| Connector No.  | M111         |
| Connector Name | IPOD ADAPTER |
| Connector Type | TH24FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | IPOD SOUND SIGNAL LH (-)    |
| 2            | B             | IPOD SOUND SIGNAL RH (-)    |
| 3            | V             | ACC                         |
| 4            | R             | AV COMM (L)                 |
| 5            | Y             | BATTERY                     |
| 8            | W             | CHARGE POWER                |
| 9            | P             | COMM (IPOD ADAPTER->IPOD)   |
| 10           | L             | COMM (IPOD->IPOD ADAPTER)   |
| 11           | O             | ACCESSORY IDENTIFY          |
| 12           | W             | IPOD SOUND SIGNAL RH (+)    |
| 13           | W             | IPOD SOUND SIGNAL LH (-)    |

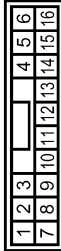
|                |              |
|----------------|--------------|
| Connector No.  | M114         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12PW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | G             | -                           |
| 3            | O             | -                           |
| 4            | SHIELD        | -                           |
| 5            | W             | -                           |
| 6            | B             | -                           |
| 7            | R             | -                           |
| 8            | BR            | -                           |
| 9            | W             | -                           |
| 10           | W             | -                           |
| 11           | SHIELD        | -                           |

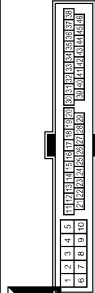
|    |        |                             |
|----|--------|-----------------------------|
| 14 | G      | IPOD SOUND SIGNAL RH (-)    |
| 15 | SHIELD | SHIELD                      |
| 16 | G      | AV COMM (H)                 |
| 17 | BR     | GND                         |
| 19 | SHIELD | SHIELD                      |
| 21 | W      | IPOD CONNECTION RECOGNITION |
| 22 | G      | ACCESSORY DETECT            |
| 23 | R      | IPOD SOUND SIGNAL GND       |
| 24 | B      | IPOD SOUND SIGNAL LH (+)    |

|                |                      |
|----------------|----------------------|
| Connector No.  | M112                 |
| Connector Name | IPOD SIDE (WITH A/T) |
| Connector Type | PI16FGY              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | IPOD SOUND SIGNAL LH (+)    |
| 2            | R             | IPOD SOUND SIGNAL GND       |
| 5            | L             | COMM (IPOD->IPOD ADAPTER)   |
| 6            | P             | COMM (IPOD ADAPTER->IPOD)   |
| 7            | W             | IPOD SOUND SIGNAL RH (+)    |
| 9            | W             | IPOD CONNECTION RECOGNITION |
| 10           | BR            | GND                         |
| 12           | W             | CHARGE POWER                |
| 14           | SHIELD        | SHIELD                      |
| 15           | G             | ACCESSORY DETECT            |
| 16           | O             | ACCESSORY IDENTIFY          |

|                |              |
|----------------|--------------|
| Connector No.  | M116         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK38MF-NS10  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 30           | LG            | -                           |
| 31           | W             | -                           |
| 41           | O             | -                           |

# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                 |  |  |
|----------------|-----------------|--|--|
| Connector No.  | M117            |  |  |
| Connector Name | WIRE TO WIRE    |  |  |
| Connector Type | TH30MW-CS16-TM4 |  |  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 51           | P             | -                           |
| 52           | V             | -                           |
| 53           | LG            | -                           |
| 54           | B             | -                           |
| 60           | Y             | -                           |
| 61           | SB            | -                           |
| 62           | W             | -                           |
| 63           | G             | -                           |
| 64           | R             | -                           |
| 65           | L             | -                           |
| 66           | BR            | -                           |

|     |   |   |
|-----|---|---|
| 67  | O | - |
| 99  | P | - |
| 100 | L | - |

|                |                           |  |
|----------------|---------------------------|--|
| Connector No.  | M122                      |  |
| Connector Name | BCM (BODY CONTROL MODULE) |  |
| Connector Type | TH40FB-NH                 |  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 90           | P             | CAN-L                       |
| 91           | L             | CAN-H                       |

|                |              |  |
|----------------|--------------|--|
| Connector No.  | M124         |  |
| Connector Name | WIRE TO WIRE |  |
| Connector Type | TH40MH-CS15  |  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 36           | R             | -                           |
| 37           | BR            | -                           |

|                |              |  |
|----------------|--------------|--|
| Connector No.  | M145         |  |
| Connector Name | WIRE TO WIRE |  |
| Connector Type | TH30MW-NH    |  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | B             | -                           |
| 4            | W             | -                           |

|                |                                  |  |
|----------------|----------------------------------|--|
| Connector No.  | M154                             |  |
| Connector Name | AUXILIARY INPUT JACKS (WITH A/T) |  |
| Connector Type | A0BFV                            |  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | SOUND SIGNAL RH (+)         |
| 2            | B             | SOUND SIGNAL LH (+)         |
| 3            | W             | AUX IMAGE SIGNAL            |
| 8            | R             | AUX IMAGE GND               |

|                |              |  |
|----------------|--------------|--|
| Connector No.  | M155         |  |
| Connector Name | WIRE TO WIRE |  |
| Connector Type | TH08FW-NH    |  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | R             | -                           |
| 4            | W             | -                           |
| 5            | B             | -                           |
| 6            | B             | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

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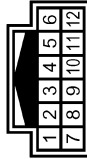
# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

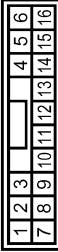
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|----------------|--------------|
| Connector No.  | M181         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             |                             |
| 2            | G             |                             |
| 3            | O             |                             |
| 4            | SHIELD        |                             |
| 5            | GR            |                             |
| 6            | BR            |                             |
| 7            | W             |                             |
| 8            | BR            |                             |
| 9            | L             |                             |
| 10           | W             |                             |
| 11           | SHIELD        |                             |

|    |   |
|----|---|
| 12 | P |
|----|---|

|                |                      |
|----------------|----------------------|
| Connector No.  | M182                 |
| Connector Name | iPod SIDE (WITH M/T) |
| Connector Type | IP16FGY              |



| Terminal No. | Color of Wire | Signal Name [Specification]     |
|--------------|---------------|---------------------------------|
| 1            | BR            | iPod SOUND SIGNAL LH (+)        |
| 2            | W             | iPod SOUND SIGNAL GND           |
| 5            | L             | COMM (iPod->iPod ADAPTER)       |
| 6            | P             | COMM (iPod ADAPTER->iPod)       |
| 7            | GR            | iPod SOUND SIGNAL RH (+)        |
| 9            | W             | iPod CONNECTION RECOGNITION GND |
| 10           | BR            |                                 |
| 12           | L             | CHARGE POWER                    |
| 14           | SHIELD        | SHIELD                          |
| 15           | G             | ACCESSORY DETECT                |
| 16           | O             | ACCESSORY IDENTIFY              |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M303                              |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY                           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 14           | W             |                             |
| 15           | L             |                             |
| 17           | BR            |                             |

|                |              |
|----------------|--------------|
| Connector No.  | M381         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        |                             |
| 2            | B             |                             |
| 3            | R             | [With NAVI]                 |
| 4            | W             | [With NAVI]                 |
| 5            | SHIELD        |                             |
| 6            | SHIELD        |                             |
| 7            | G             |                             |
| 8            | R             |                             |

|                |                                  |
|----------------|----------------------------------|
| Connector No.  | M382                             |
| Connector Name | AUXILIARY INPUT JACKS (WITH M/T) |
| Connector Type | A08FW                            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             |                             |
| 2            | B             |                             |
| 3            | W             | [With NAVI]                 |
| 7            | G             |                             |
| 8            | R             |                             |

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M371                        |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | GT33SF-2/1S-HU              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 105          | -             | FM SUB                      |
| 106          | -             | AM-FM MAIN                  |
| 107          | -             | ANTENNA AMP. ON SIGNAL      |

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M372                        |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | FAKRA-JACK                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 108          | -             | SATELLITE ANTENNA           |
| 109          | SHIELD        | SHIELD                      |



# IPOD ADAPTER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M373                        |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | GT15-IS-HU                  |



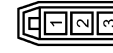
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 110          | -             | GPS ANTENNA                 |
| 111          | SHIELD        | SHIELD                      |

|                |              |
|----------------|--------------|
| Connector No.  | M374         |
| Connector Name | WIRE TO WIRE |
| Connector Type | GT16C-IPP-HU |



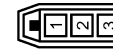
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

|                |                |
|----------------|----------------|
| Connector No.  | M375           |
| Connector Name | WIRE TO WIRE   |
| Connector Type | GT13SC-2/IS-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | M376             |
| Connector Name | WIRE TO WIRE     |
| Connector Type | GT13SON-2/IPP-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | -             | -                           |
| 3            | -             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M377         |
| Connector Name | WIRE TO WIRE |
| Connector Type | GT16C-IS-HU  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

|                |                |
|----------------|----------------|
| Connector No.  | M378           |
| Connector Name | ANTENNA AMP.   |
| Connector Type | GT13SC-1/IS-HU |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | ANTENNA AMP. ON SIGNAL      |
| 2            | -             | AM-FM MAIN                  |

|                |                     |
|----------------|---------------------|
| Connector No.  | M379                |
| Connector Name | GLASS ANTENNA (SUB) |
| Connector Type | P01FB-A             |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M380         |
| Connector Name | WIRE TO WIRE |
| Connector Type | GT16-IPP-HU  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

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**BOSE AUDIO WITH NAVIGATION SYSTEM**

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|----------------|----------------------|
| Connector No.  | M381                 |
| Connector Name | GLASS ANTENNA (MAIN) |
| Connector Type | P01FB-A              |



|                |              |
|----------------|--------------|
| Connector No.  | M382         |
| Connector Name | WIRE TO WIRE |
| Connector Type | GT16C-IS-HU  |

|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

|                |                         |
|----------------|-------------------------|
| Connector No.  | M383                    |
| Connector Name | SATELLITE RADIO ANTENNA |
| Connector Type | GT16C-IIP-HU            |



|                |              |
|----------------|--------------|
| Connector No.  | R1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NS    |

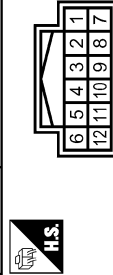


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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | -             | -                           |

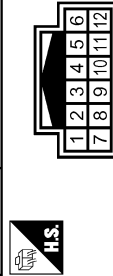
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|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | R             | - [With rear view camera]   |
| 2            | G             | - [With rear view camera]   |
| 3            | SHIELD        | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | R2           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12FW-NH    |



|                |              |
|----------------|--------------|
| Connector No.  | R11          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MW-NH    |



|                |            |
|----------------|------------|
| Connector No.  | R17        |
| Connector Name | MICROPHONE |
| Connector Type | TK04FW     |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 3            | SHIELD        | -                           |
| 4            | R             | - [With rear view camera]   |
| 5            | G             | - [With rear view camera]   |

|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 3            | SHIELD        | -                           |
| 4            | R             | -                           |
| 5            | G             | -                           |

|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1            | R             | MICROPHONE SIGNAL           |
| 2            | SHIELD        | SHIELD                      |
| 4            | G             | MICROPHONE VCC              |

# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

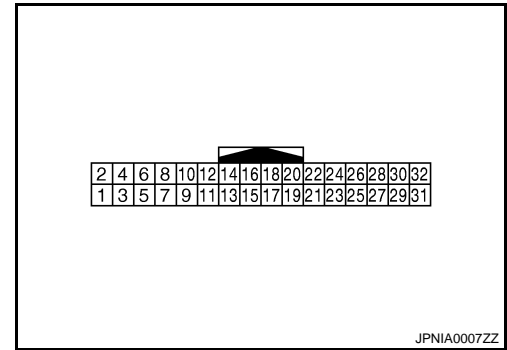
[BOSE AUDIO WITH NAVIGATION]

## CAMERA CONTROL UNIT

Reference Value

INFOID:000000004238833

TERMINAL LAYOUT



PHYSICAL VALUES

| Terminal<br>(Wire color) |        | Description                               |                  | Condition                |  | Reference value<br>(Approx.) |
|--------------------------|--------|---|------------------|--------------------------|--|------------------------------|
| +                        | -      | Signal name                               | Input/<br>Output |                          |  |                              |
| 5                        | —      | Shield                                    | —                | —                        | —  | —                            |
| 6<br>(B)                 | Ground | Camera image signal                       | Input            | Ignition<br>switch<br>ON | At rear view camera image<br>is displayed  |                              |
| 7<br>(W)                 | Ground | GND                                       | —                | Ignition<br>switch<br>ON | —  | 0 V                          |
| 8<br>(R)                 | Ground | Camera ON signal                          | Output           | Ignition<br>switch<br>ON | R position<br>Other than R position  | 6 V<br>0 V                   |
| 11                       | —      | Shield                                    | —                | —                        | —  | —                            |
| 12<br>(W)                | Ground | Camera image signal                       | Output           | Ignition<br>switch<br>ON | At rear view camera image<br>is displayed  |                              |
| 13*<br>(B)               | Ground | Control signal                            | —                | Ignition<br>switch<br>ON | —  | 0 V                          |
| 14<br>(P)                | Ground | Camera-connection recog-<br>nition signal | Output           | Ignition<br>switch<br>ON | Connected to camera con-<br>trol unit connector<br>Not connected to camera<br>control unit connector | 0 V<br>5 V                   |
| 17<br>(BR)               | —      | AV communication signal<br>(L)            | Input/<br>Output | —                        | —  | —                            |

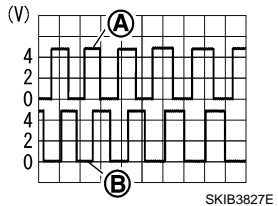
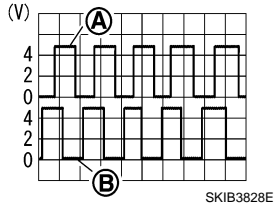
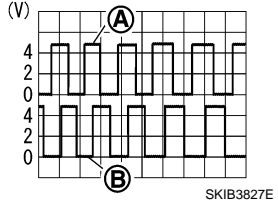
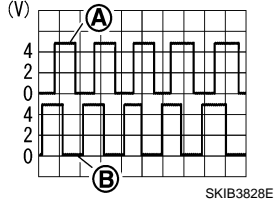
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# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

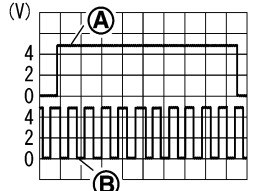
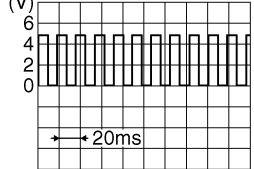
[BOSE AUDIO WITH NAVIGATION]

| Terminal<br>(Wire color) |        | Description                    |                  | Condition                |                                   | Reference value<br>(Approx.)   |
|--------------------------|--------|--------------------------------|------------------|--------------------------|-----------------------------------|--|
| +                        | -      | Signal name                    | Input/<br>Output |                          |                                   |  |
| 18<br>(Y)                | —      | AV communication signal<br>(H) | Input/<br>Output | —                        | —                                 | —  |
| 19<br>(R)                | —      | AV communication signal<br>(L) | Input/<br>Output | —                        | —                                 | —  |
| 20<br>(G)                | —      | AV communication signal<br>(H) | Input/<br>Output | —                        | —                                 | —  |
| 22<br>(GR)               | Ground | Reverse signal                 | Input            | Ignition<br>switch<br>ON | R position                        | 12 V   |
|                          |        |                                |                  | Other than R position    | 0 V                               |  |
| 23<br>(W)                | Ground | Sensor signal 1                | Input            | Ignition<br>switch<br>ON | Turn the steering to the<br>right |  <p style="text-align: right; font-size: small;">SKIB3827E</p> <p style="text-align: center;">A: Sensor signal 1<br/>B: Sensor signal 2</p>   |
|                          |        |                                |                  |                          | Turn the steering to the<br>left  |  <p style="text-align: right; font-size: small;">SKIB3828E</p> <p style="text-align: center;">A: Sensor signal 1<br/>B: Sensor signal 2</p>  |
| 24<br>(R)                | Ground | Sensor signal 2                | Input            | Ignition<br>switch<br>ON | Turn the steering to the<br>right |  <p style="text-align: right; font-size: small;">SKIB3827E</p> <p style="text-align: center;">A: Sensor signal 1<br/>B: Sensor signal 2</p> |
|                          |        |                                |                  |                          | Turn the steering to the<br>left  |  <p style="text-align: right; font-size: small;">SKIB3828E</p> <p style="text-align: center;">A: Sensor signal 1<br/>B: Sensor signal 2</p> |

# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

| Terminal<br>(Wire color) |        | Description                       |                  | Condition                 |   | Reference value<br>(Approx.)   |
|--------------------------|--------|-----------------------------------|------------------|---------------------------|---|--|
| +                        | -      | Signal name                       | Input/<br>Output |                           |   |  |
| 25<br>(O)                | Ground | Sensor signal 3                   | Input            | Ignition<br>switch<br>ON  | Turn the steering around<br>the neutral position    |  <p>A: Sensor signal 3<br/>B: Sensor signal 1</p>   |
| 26<br>(V)                | Ground | Vehicle speed signal<br>(8-pulse) | Input            | Ignition<br>switch<br>ON  | When vehicle speed is ap-<br>prox. 40 km/h (25 MPH) | <p><b>NOTE:</b><br/>Maximum voltage may be 12 V<br/>due to specifications (connected<br/>units).</p>  |
| 30<br>(LG)               | Ground | ACC power supply                  | Input            | Ignition<br>switch<br>ACC | —   | Battery voltage  |
| 31<br>(B)                | Ground | GND                               | —                | Ignition<br>switch<br>ON  | —   | 0 V  |
| 32<br>(L)                | Ground | Battery power supply              | Input            | Ignition<br>switch<br>OFF | —   | Battery voltage  |

\*: With 4WAS

## Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM -

INFOID:000000004501732

**NOTE:**

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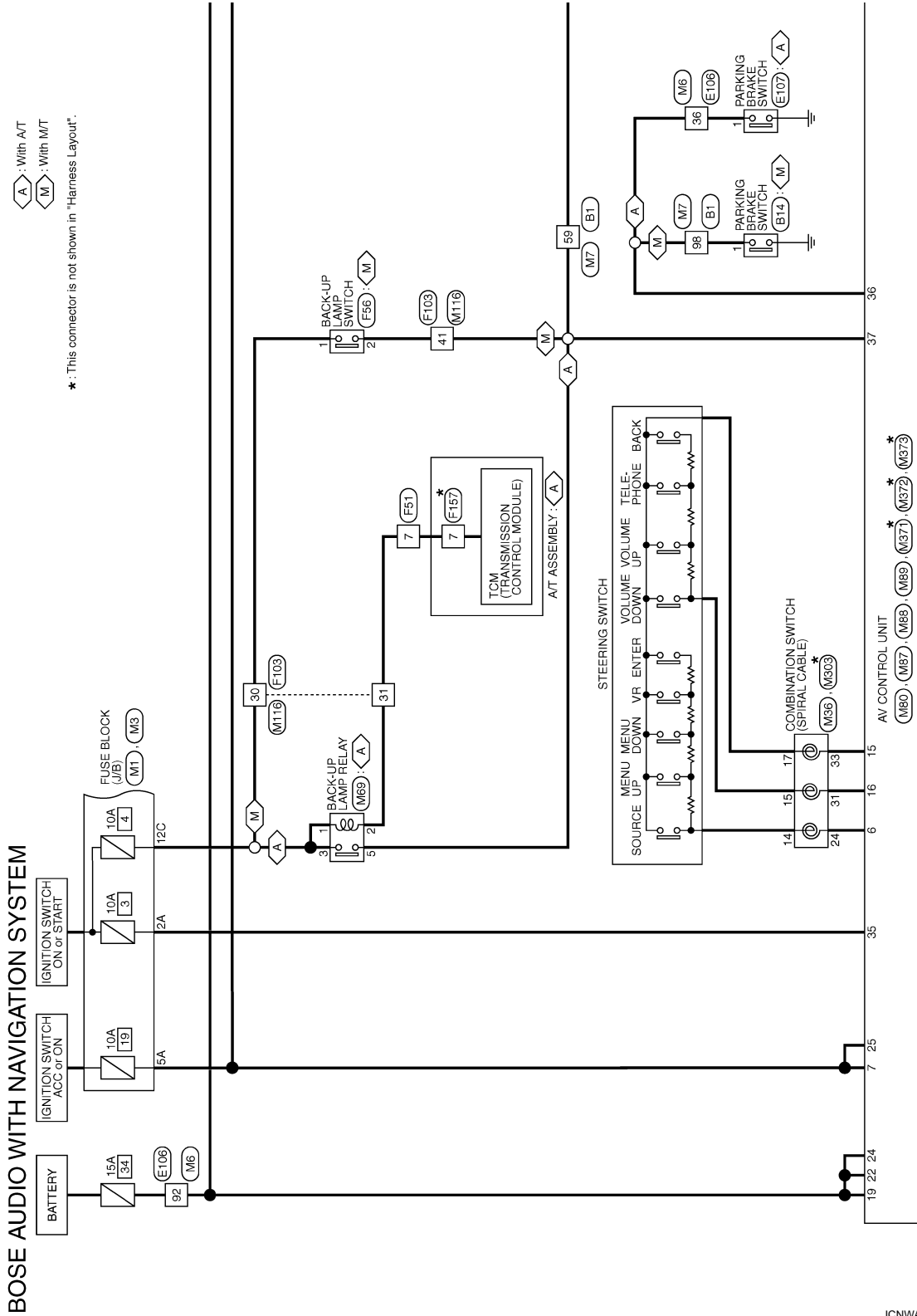
AV

# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.



2008/08/07

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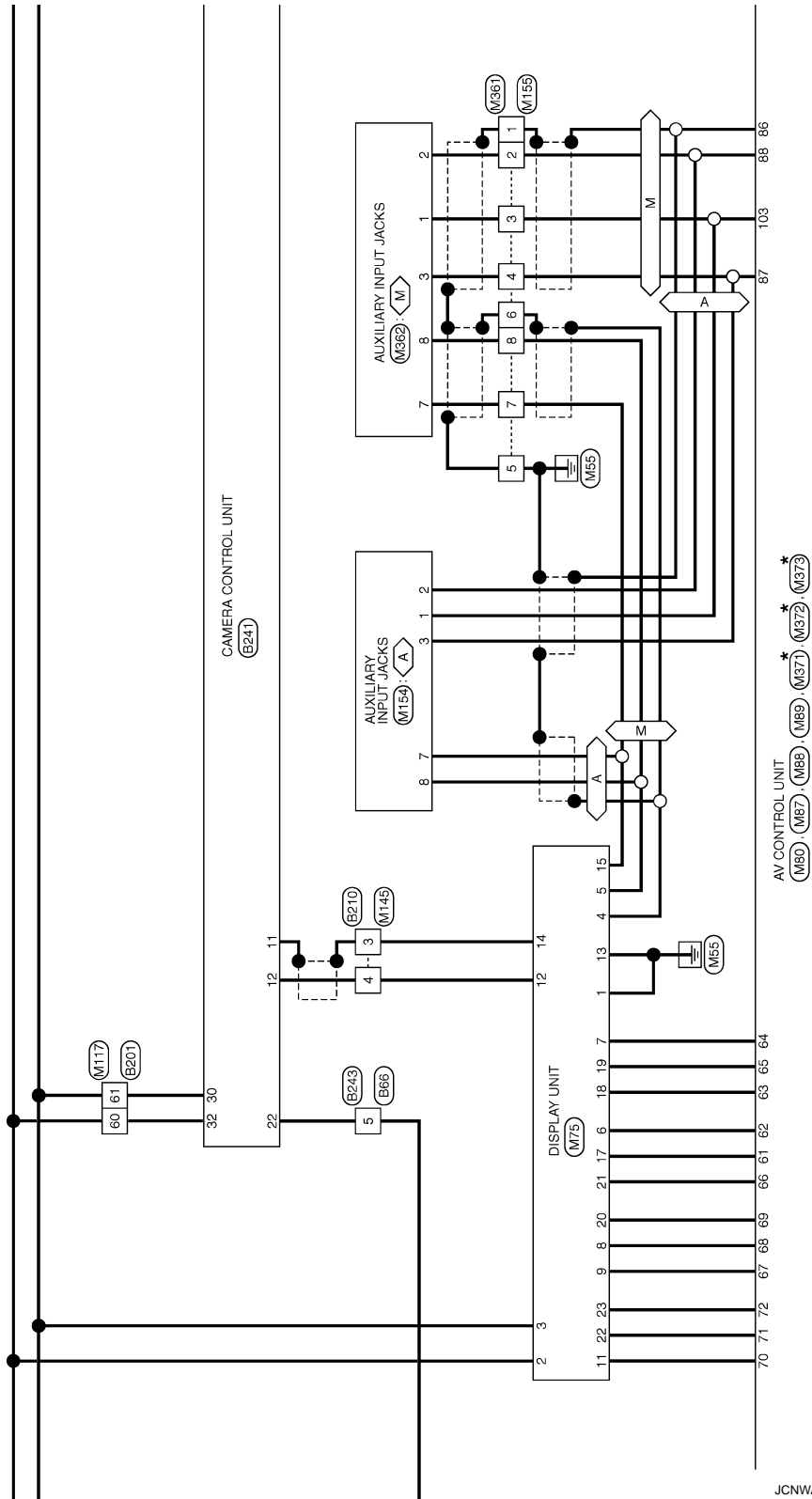
# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

A : With A/T  
M : With M/T

★ : This connector is not shown in "Harness Layout".



JCNWA1769GE

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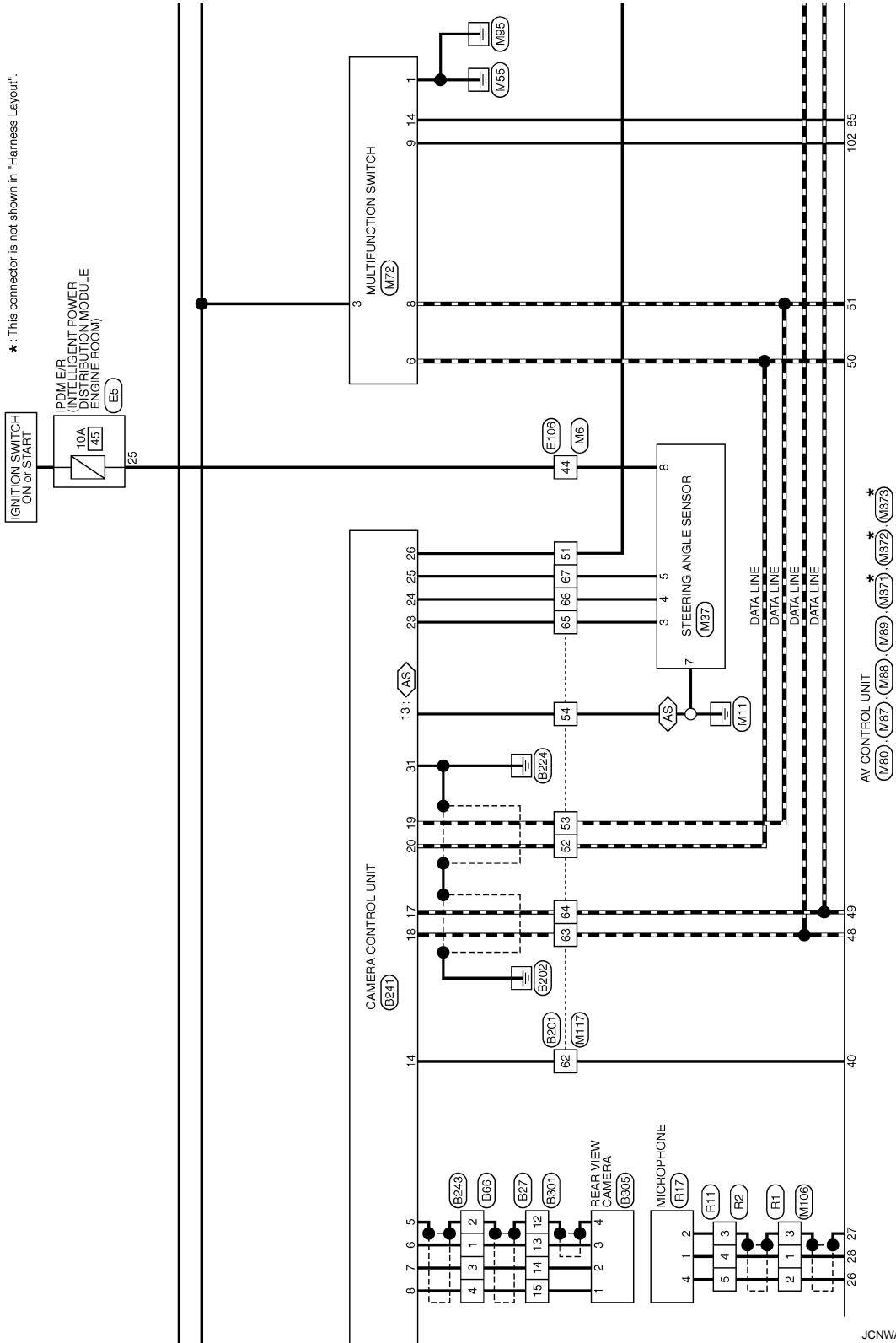
# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

AS : With 4MAS

\*: This connector is not shown in "Harness Layout".



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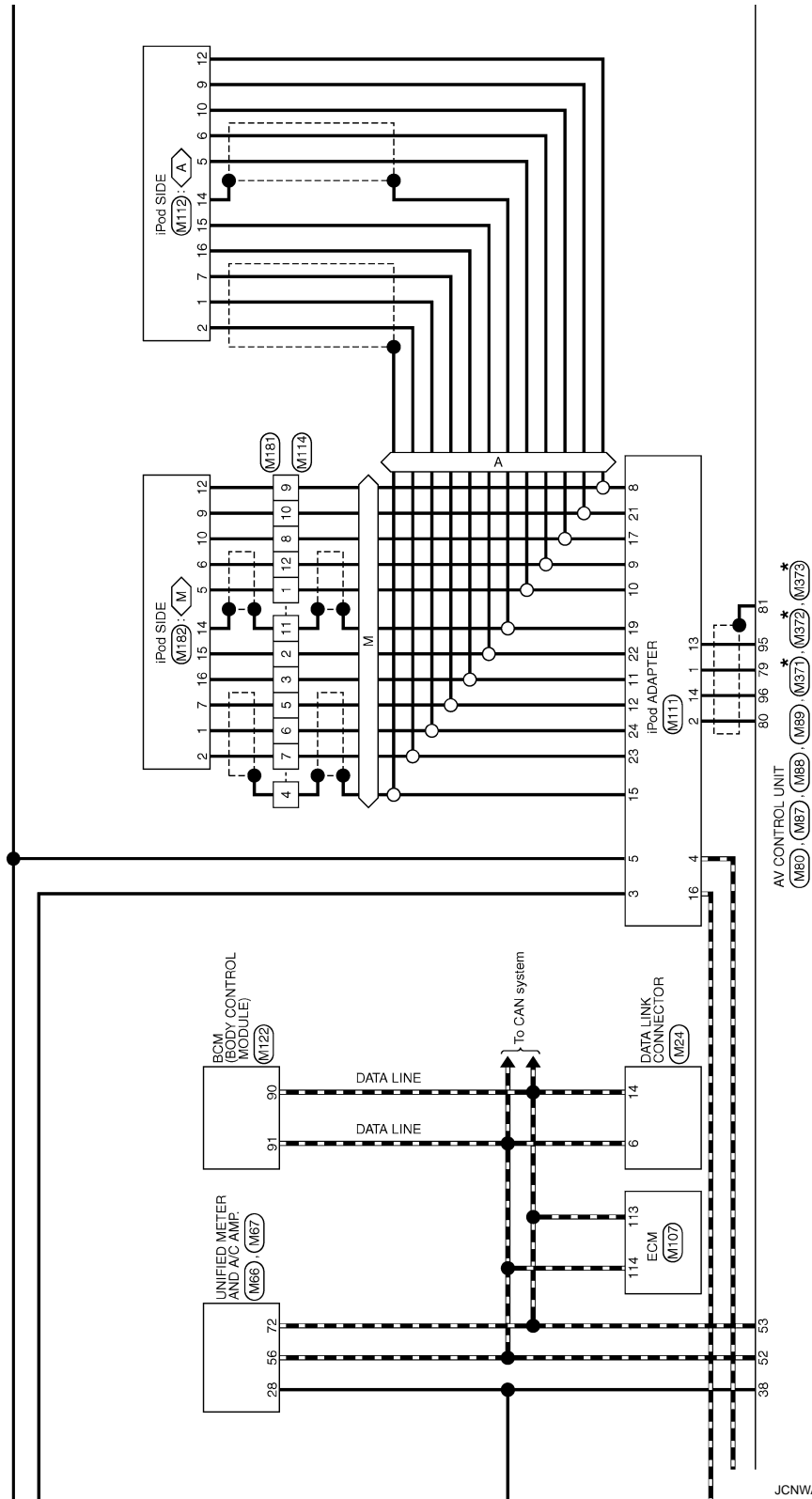
# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

◊ : With A/T  
 ◊ : With M/T

\*: This connector is not shown in "Harness Layout".



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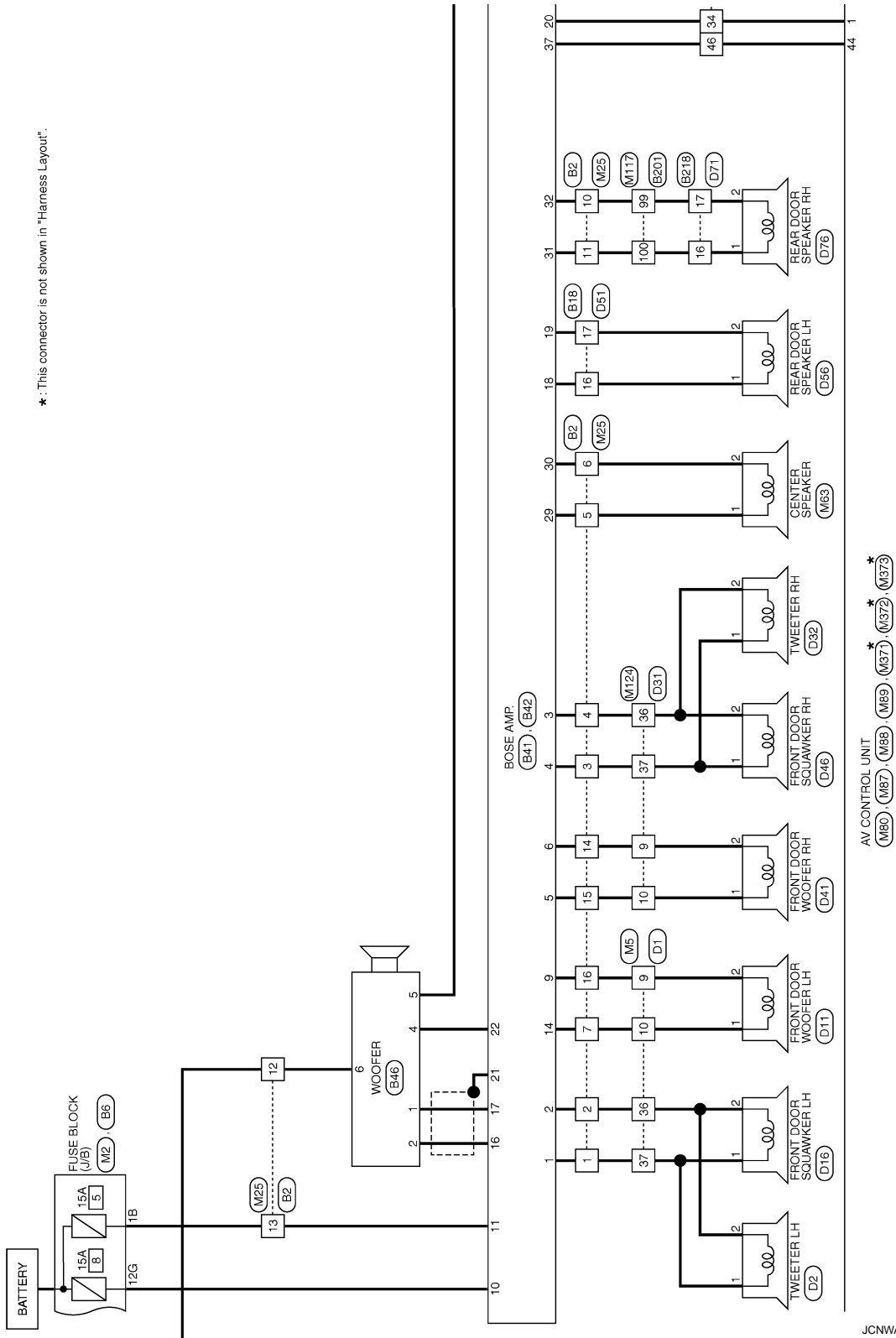
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# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

\*: This connector is not shown in "Harness Layout".



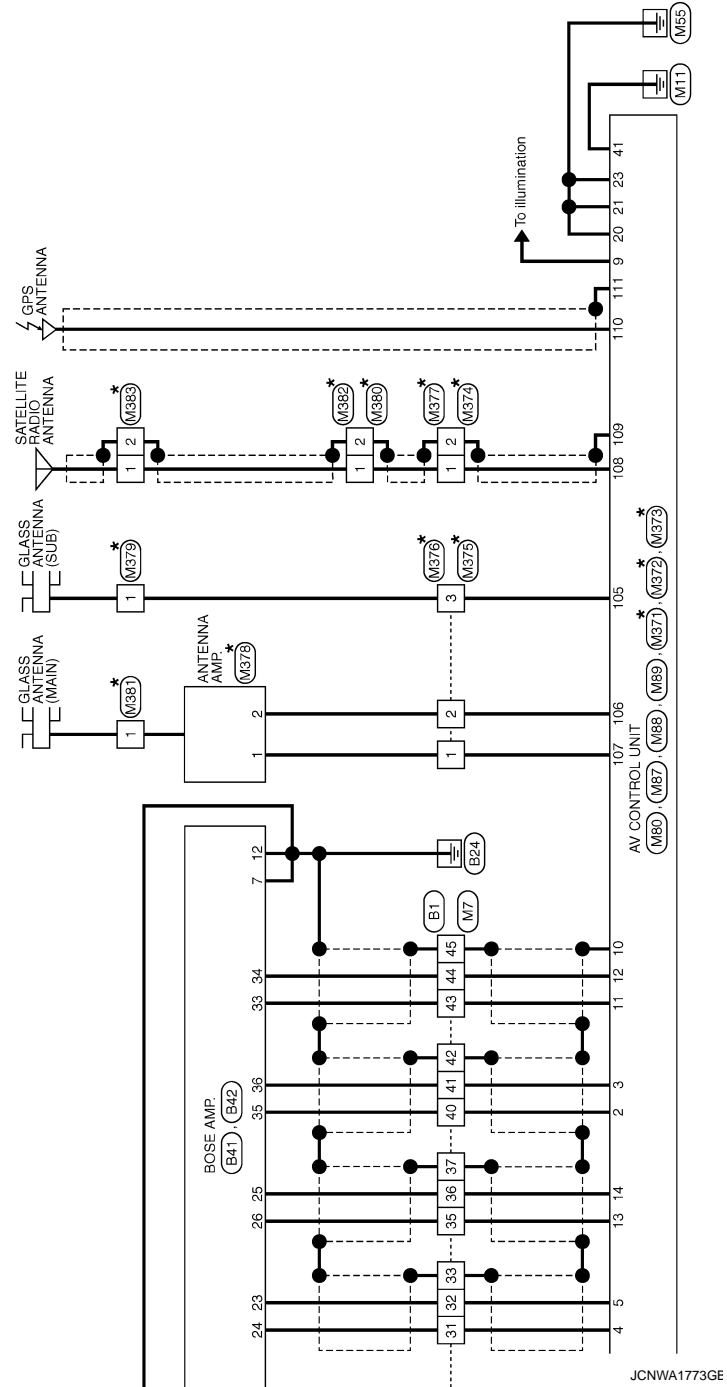
JCNWA1772GE

# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

\*: This connector is not shown in "Harness Layout".



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# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

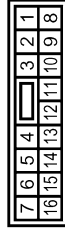
## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                 |
|----------------|-----------------|
| Connector No.  | B1              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH8DFW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | V             | -                           |
| 32           | SB            | -                           |
| 33           | SHIELD        | -                           |
| 34           | W             | -                           |
| 35           | BR            | -                           |
| 36           | Y             | -                           |
| 37           | SHIELD        | -                           |
| 40           | P             | -                           |
| 41           | L             | -                           |
| 42           | SHIELD        | -                           |
| 43           | R             | -                           |

|    |        |   |
|----|--------|---|
| 44 | G      | - |
| 45 | SHIELD | - |
| 46 | SE     | - |
| 50 | O      | - |
| 58 | V      | - |



|                |              |
|----------------|--------------|
| Connector No.  | B2           |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16FW-CS    |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | V             | -                           |
| 4            | LG            | -                           |
| 5            | L             | -                           |
| 6            | O             | -                           |
| 7            | B             | -                           |
| 10           | Y             | -                           |
| 11           | LG            | -                           |
| 12           | P             | -                           |
| 13           | GR            | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | B6               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FBR-CS       |



|                |                                 |
|----------------|---------------------------------|
| Connector No.  | B14                             |
| Connector Name | PARKING BRAKE SWITCH (WITH M/T) |
| Connector Type | P01FB-A                         |



|              |     |   |   |
|--------------|-----|---|---|
| Terminal No. | 12G | Y | - |
|--------------|-----|---|---|

|              |   |   |   |
|--------------|---|---|---|
| Terminal No. | 1 | V | - |
|--------------|---|---|---|

|                |              |
|----------------|--------------|
| Connector No.  | B18          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10PW-NS8   |



|                |              |
|----------------|--------------|
| Connector No.  | B27          |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16MP-CS    |



|              |    |   |   |
|--------------|----|---|---|
| Terminal No. | 16 | L | - |
| 17           | P  | - | - |

|              |    |        |   |
|--------------|----|--------|---|
| Terminal No. | 12 | SHIELD | - |
| 13           | B  | -      | - |
| 14           | W  | -      | - |
| 15           | R  | -      | - |

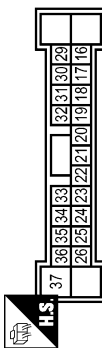
# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |              |
|----------------|--------------|
| Connector No.  | B41          |
| Connector Name | BOSE AMP.    |
| Connector Type | SCA18FB-SG44 |



| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|-------------------------------|
| 16           | SB            | SOUND SIGNAL CENTER (-)       |
| 17           | V             | SOUND SIGNAL REAR DOOR RH (+) |
| 18           | L             | SOUND SIGNAL REAR DOOR LH (+) |
| 19           | P             | SOUND SIGNAL FRONT RH (+)     |
| 20           | W             | SOUND SIGNAL FRONT LH (+)     |
| 21           | SHIELD        | AMP. ON SIGNAL                |
| 22           | GR            | SHIELD                        |
| 23           | SB            | WOOFER AMP. ON SIGNAL         |
| 24           | V             | SOUND SIGNAL REAR LH (-)      |
| 25           | Y             | SOUND SIGNAL REAR RH (-)      |
| 26           | BR            | SOUND SIGNAL REAR LH (+)      |

|                |           |
|----------------|-----------|
| Connector No.  | B46       |
| Connector Name | WOOFER    |
| Connector Type | MS08FB-CS |

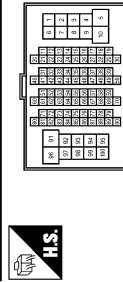


| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | V             | SOUND SIGNAL WOOFER (-)     |
| 2            | SB            | SOUND SIGNAL WOOFER (+)     |
| 4            | GR            | WOOFER AMP. ON SIGNAL       |
| 5            | B             | GND                         |
| 6            | P             | BATTERY                     |

|    |    |                               |
|----|----|-------------------------------|
| 29 | L  | SOUND SIGNAL CENTER (+)       |
| 30 | O  | SOUND SIGNAL CENTER (-)       |
| 31 | LG | SOUND SIGNAL REAR DOOR RH (+) |
| 32 | Y  | SOUND SIGNAL REAR DOOR LH (-) |
| 33 | R  | SOUND SIGNAL FRONT RH (+)     |
| 34 | G  | SOUND SIGNAL FRONT LH (+)     |
| 35 | P  | SOUND SIGNAL FRONT LH (-)     |
| 36 | L  | SOUND SIGNAL FRONT LH (-)     |
| 37 | SB | MODE CHANGE SIGNAL            |

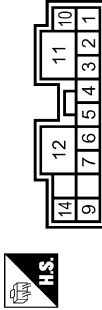
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | FRONT DOOR SQUAWKER LH (+)  |
| 2            | W             | FRONT DOOR SQUAWKER LH (-)  |
| 3            | LG            | FRONT DOOR SQUAWKER RH (-)  |
| 4            | V             | FRONT DOOR SQUAWKER RH (+)  |
| 5            | G             | FRONT DOOR WOOFER RH (+)    |
| 6            | R             | FRONT DOOR WOOFER RH (-)    |
| 7            | B             | GND                         |
| 9            | Y             | FRONT DOOR WOOFER LH (-)    |
| 10           | W             | BATTERY                     |
| 11           | GR            | BATTERY                     |
| 12           | B             | GND                         |

|                |                   |
|----------------|-------------------|
| Connector No.  | E201              |
| Connector Name | WIRE TO WIRE      |
| Connector Type | TH80FW-CS (P-TM4) |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 51           | V             | -                           |
| 52           | G             | -                           |
| 53           | R             | -                           |
| 54           | B             | -                           |
| 60           | L             | -                           |
| 61           | LG            | -                           |
| 62           | P             | -                           |
| 63           | Y             | -                           |
| 64           | BR            | -                           |
| 65           | W             | -                           |
| 66           | R             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | B42          |
| Connector Name | BOSE AMP.    |
| Connector Type | SCA12FB-SJA2 |



|     |   |
|-----|---|
| 87  | O |
| 89  | P |
| 100 | L |

|    |   |
|----|---|
| 14 | B |
|----|---|

|                          |
|--------------------------|
| FRONT DOOR WOOFER LH (+) |
|--------------------------|

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AV

# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

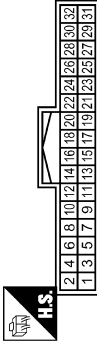
|                |              |
|----------------|--------------|
| Connector No.  | B210         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



|                |              |
|----------------|--------------|
| Connector No.  | B218         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10FW-NS    |



|                |                     |
|----------------|---------------------|
| Connector No.  | B241                |
| Connector Name | CAMERA CONTROL UNIT |
| Connector Type | TH03FW-NH           |



|    |    |                         |
|----|----|-------------------------|
| 20 | G  | AV COMM (H)             |
| 22 | GR | REVERSE                 |
| 23 | W  | SENSOR SIGNAL 1         |
| 24 | R  | SENSOR SIGNAL 2         |
| 25 | O  | SENSOR SIGNAL 3         |
| 26 | V  | VEHICLE SPEED (3-PULSE) |
| 30 | LG | ACC                     |
| 31 | B  | GND                     |
| 32 | L  | BATTERY                 |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | SHIELD        | -                           |
| 4            | W             | -                           |

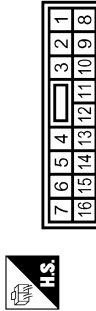
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 16           | L             | -                           |
| 17           | P             | -                           |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 5            | SHIELD        | SHIELD                      |
| 6            | B             | CAMERA IMAGE SIGNAL         |
| 7            | W             | GND                         |
| 8            | R             | CAMERA ON SIGNAL            |
| 11           | SHIELD        | SHIELD                      |
| 12           | W             | CAMERA IMAGE SIGNAL         |
| 13           | B             | CONTROL SIGNAL              |
| 14           | P             | CONNECTION RECOGNITION      |
| 17           | BR            | AV COMM (L)                 |
| 18           | Y             | AV COMM (H)                 |
| 19           | R             | AV COMM (L)                 |

|                |              |
|----------------|--------------|
| Connector No.  | B243         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH08FW-NH    |



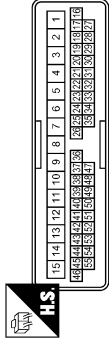
|                |              |
|----------------|--------------|
| Connector No.  | B301         |
| Connector Name | WIRE TO WIRE |
| Connector Type | NS16FW-CS    |



|                |                  |
|----------------|------------------|
| Connector No.  | B305             |
| Connector Name | REAR VIEW CAMERA |
| Connector Type | TH03MW-NH        |



|                |              |
|----------------|--------------|
| Connector No.  | D1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-CS15  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | -                           |
| 2            | SHIELD        | -                           |
| 3            | W             | -                           |
| 4            | R             | -                           |
| 5            | GR            | -                           |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 12           | SHIELD        | -                           |
| 13           | Y             | -                           |
| 14           | L             | -                           |
| 15           | R             | -                           |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | CAMERA ON SIGNAL            |
| 2            | L             | GND                         |
| 3            | Y             | CAMERA IMAGE SIGNAL         |
| 4            | SHIELD        | SHIELD                      |








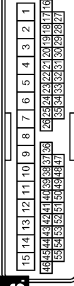








| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 35           | W             | -                           |
| 37           | L             | -                           |

# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                      |  |                               |   |   |              |               |                             |
|----------------------|--|-------------------------------|---|---|--------------|---------------|-----------------------------|
| Connector No.<br>D2  | Connector Name<br>TWEETER LH             | Connector Type<br>TK02MBF-P   | <br>H.S. |  | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 1            | L             |                             |
|                      |  |                               |   |   | 2            | W             |                             |
| Connector No.<br>D11 | Connector Name<br>FRONT DOOR WOOFER LH   | Connector Type<br>NS02FW-CS   | <br>H.S. |  | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 1            | G             |                             |
|                      |  |                               |   |   | 2            | R             |                             |
| Connector No.<br>D16 | Connector Name<br>FRONT DOOR SQUAWKER LH | Connector Type<br>TK02FBR     | <br>H.S.   |    | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 1            | L             |                             |
|                      |  |                               |   |   | 2            | W             |                             |
| Connector No.<br>D31 | Connector Name<br>WIRE TO WIRE           | Connector Type<br>TH40FY-CS/5 | <br>H.S.   |    | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 9            | R             |                             |
|                      |  |                               |   |   | 10           | G             |                             |
|                      |  |                               |   |   | 36           | W             |                             |
|                      |  |                               |   |   | 37           | L             |                             |
| Connector No.<br>D32 | Connector Name<br>TWEETER RH             | Connector Type<br>TK02MBF-P   | <br>H.S. |  | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 1            | L             |                             |
|                      |  |                               |   |   | 2            | W             |                             |
| Connector No.<br>D41 | Connector Name<br>FRONT DOOR WOOFER RH   | Connector Type<br>NS02FW-CS   | <br>H.S. |  | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 1            | G             |                             |
|                      |  |                               |   |   | 2            | R             |                             |
| Connector No.<br>D46 | Connector Name<br>FRONT DOOR SQUAWKER RH | Connector Type<br>TK02FBR     | <br>H.S.   |    | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 1            | L             |                             |
|                      |  |                               |   |   | 2            | W             |                             |
| Connector No.<br>D51 | Connector Name<br>WIRE TO WIRE           | Connector Type<br>TK10MMY-NS8 | <br>H.S.   |    | Terminal No. | Color of Wire | Signal Name [Specification] |
|                      |  |                               |   |   | 16           | LG            |                             |
|                      |  |                               |   |   | 17           | Y             |                             |

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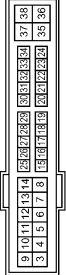

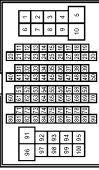



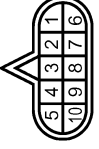


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# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|   |  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
|---|--|------|----------------|--|----------------|-------------------|--|--------------|----|---------------|---------------|-----------------------------|---|-----------------------------|----|-----------------------------|---|---|---|
| <table border="1"> <tr><td>Connector No.</td><td>D36</td></tr> <tr><td>Connector Name</td><td>REAR DOOR SPEAKER LH</td></tr> <tr><td>Connector Type</td><td>NS02FBR-CS</td></tr> </table>     | Connector No.  | D36  | Connector Name | REAR DOOR SPEAKER LH   | Connector Type | NS02FBR-CS        | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>LG</td><td>Y</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>                                  | Terminal No. | 1  | 2             | Color of Wire | LG                          | Y | Signal Name [Specification] | -  | -                           |   |   |   |
| Connector No.   | D36  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | REAR DOOR SPEAKER LH   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | NS02FBR-CS   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 1  | 2    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | LG   | Y    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  | -    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>D71</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TK10MW-NSS</td></tr> </table>    | Connector No.  | D71  | Connector Name | WIRE TO WIRE   | Connector Type | TK10MW-NSS        | <table border="1"> <tr><td>Terminal No.</td><td>16</td><td>17</td></tr> <tr><td>Color of Wire</td><td>L</td><td>P</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>                                 | Terminal No. | 16 | 17            | Color of Wire | L                           | P | Signal Name [Specification] | -  | -                           |   |   |   |
| Connector No.   | D71  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | WIRE TO WIRE   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | TK10MW-NSS   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 16   | 17   |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | L  | P    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  | -    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>D76</td></tr> <tr><td>Connector Name</td><td>REAR DOOR SPEAKER RH</td></tr> <tr><td>Connector Type</td><td>NS02FBR-CS</td></tr> </table>     | Connector No.  | D76  | Connector Name | REAR DOOR SPEAKER RH   | Connector Type | NS02FBR-CS        | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>L</td><td>P</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>                                   | Terminal No. | 1  | 2             | Color of Wire | L                           | P | Signal Name [Specification] | -  | -                           |   |   |   |
| Connector No.   | D76  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | REAR DOOR SPEAKER RH   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | NS02FBR-CS   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 1  | 2    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | L  | P    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  | -    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>E5</td></tr> <tr><td>Connector Name</td><td>IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)</td></tr> <tr><td>Connector Type</td><td>TH20FY-CS/2-M4-1V</td></tr> </table>   | Connector No.  | E5   | Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) | Connector Type | TH20FY-CS/2-M4-1V | <table border="1"> <tr><td>Terminal No.</td><td>25</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>  | Terminal No. | 25 | Color of Wire | G             | Signal Name [Specification] | - |                             |    |                             |   |   |   |
| Connector No.   | E5   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | TH20FY-CS/2-M4-1V  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 25   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | G  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>E106</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH00FW-CS16-TM4</td></tr> </table>     | Connector No.  | E106 | Connector Name | WIRE TO WIRE   | Connector Type | TH00FW-CS16-TM4   | <table border="1"> <tr><td>Terminal No.</td><td>36</td><td>44</td><td>92</td></tr> <tr><td>Color of Wire</td><td>O</td><td>G</td><td>LG</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td><td>-</td></tr> </table> | Terminal No. | 36 | 44            | 92            | Color of Wire               | O | G                           | LG | Signal Name [Specification] | - | - | - |
| Connector No.   | E106   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | WIRE TO WIRE   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | TH00FW-CS16-TM4  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 36   | 44   | 92             |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | O  | G    | LG             |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  | -    | -              |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>E107</td></tr> <tr><td>Connector Name</td><td>PARKING BRAKE SWITCH (WITH A/T)</td></tr> <tr><td>Connector Type</td><td>TB01FW</td></tr> </table>                                     | Connector No.  | E107 | Connector Name | PARKING BRAKE SWITCH (WITH A/T)                              | Connector Type | TB01FW            | <table border="1"> <tr><td>Terminal No.</td><td>1</td></tr> <tr><td>Color of Wire</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>   | Terminal No. | 1  | Color of Wire | O             | Signal Name [Specification] | - |                             |    |                             |   |   |   |
| Connector No.   | E107   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | PARKING BRAKE SWITCH (WITH A/T)                              |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | TB01FW   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 1  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | O  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>F51</td></tr> <tr><td>Connector Name</td><td>A/T ASSEMBLY</td></tr> <tr><td>Connector Type</td><td>RK10FG-DGY</td></tr> </table>     | Connector No.  | F51  | Connector Name | A/T ASSEMBLY   | Connector Type | RK10FG-DGY        | <table border="1"> <tr><td>Terminal No.</td><td>7</td></tr> <tr><td>Color of Wire</td><td>R</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>   | Terminal No. | 7  | Color of Wire | R             | Signal Name [Specification] | - |                             |    |                             |   |   |   |
| Connector No.   | F51  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | A/T ASSEMBLY   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | RK10FG-DGY   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 7  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | R  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| <table border="1"> <tr><td>Connector No.</td><td>F56</td></tr> <tr><td>Connector Name</td><td>BACK-UP LAMP SWITCH</td></tr> <tr><td>Connector Type</td><td>RK02FB</td></tr> </table>    | Connector No.  | F56  | Connector Name | BACK-UP LAMP SWITCH  | Connector Type | RK02FB            | <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>R</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td></tr> </table>                                   | Terminal No. | 1  | 2             | Color of Wire | R                           | O | Signal Name [Specification] | -  | -                           |   |   |   |
| Connector No.   | F56  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Name  | BACK-UP LAMP SWITCH  |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Connector Type  | RK02FB   |      |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Terminal No.  | 1  | 2    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Color of Wire   | R  | O    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |
| Signal Name [Specification]   | -  | -    |                |  |                |                   |  |              |    |               |               |                             |   |                             |    |                             |   |   |   |

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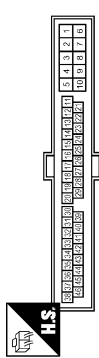
# CAMERA CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |              |
|----------------|--------------|
| Connector No.  | F103         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK36FW-NS10  |



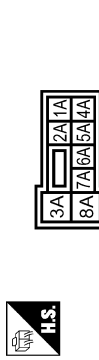
|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 30           | R             | -                           |
| 31           | R             | -                           |
| 41           | O             | -                           |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | F157                              |
| Connector Name | TOM (TRANSMISSION CONTROL MODULE) |
| Connector Type | SPT0FG                            |



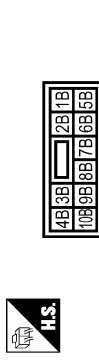
|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 7            | L             | REV LAMP RLY                |

|                |                  |
|----------------|------------------|
| Connector No.  | M1               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS36FW-M2        |



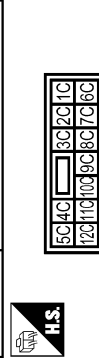
|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 2A           | G             | -                           |
| 5A           | L             | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | M2               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS10FW-CS        |



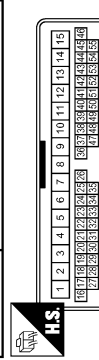
|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 1B           | SB            | -                           |

|                |                  |
|----------------|------------------|
| Connector No.  | M3               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS12FW-CS        |



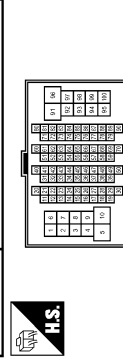
|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 12C          | R             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M5           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40MW-CS15  |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 9            | W             | -                           |
| 10           | B             | -                           |
| 36           | W             | -                           |
| 37           | L             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | M6              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH60MW-CS16-7M4 |



|              |               |                             |
|--------------|---------------|-----------------------------|
| Terminal No. | Color of Wire | Signal Name [Specification] |
| 36           | O             | -                           |
| 44           | G             | -                           |
| 92           | Y             | -                           |

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
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AV  
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P

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[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                 |
|----------------|-----------------|
| Connector No.  | M7              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH80MW-CS16-TM4 |



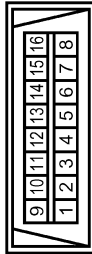
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 31           | V             | -                           |
| 32           | LG            | -                           |
| 33           | SHIELD        | -                           |
| 34           | SB            | -                           |
| 35           | BR            | -                           |
| 36           | Y             | -                           |
| 37           | SHIELD        | -                           |
| 40           | O             | -                           |
| 41           | W             | -                           |
| 42           | SHIELD        | -                           |
| 43           | R             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M25          |
| Connector Name | WIRE TO WIRE |
| Connector Type | MS16MW-CS    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | W             | -                           |
| 3            | BR            | -                           |
| 4            | R             | -                           |
| 5            | L             | -                           |
| 6            | LG            | -                           |
| 7            | B             | -                           |
| 10           | P             | -                           |
| 11           | L             | -                           |
| 12           | Y             | -                           |
| 13           | SB            | -                           |

|                |                     |
|----------------|---------------------|
| Connector No.  | M24                 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | ED16FW-P            |



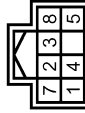
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6            | L             | -                           |
| 14           | P             | -                           |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M86                               |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY-TV                        |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 24           | P             | -                           |
| 31           | L             | -                           |
| 33           | B             | -                           |

|                |                       |
|----------------|-----------------------|
| Connector No.  | M37                   |
| Connector Name | STEERING ANGLE SENSOR |
| Connector Type | TH08FPY-NH            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | L             | SENSOR1                     |
| 4            | BR            | SENSOR2                     |
| 5            | O             | SENSOR3                     |
| 7            | B             | GND                         |
| 8            | G             | IGN                         |

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# CAMERA CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                |
|----------------|----------------|
| Connector No.  | M63            |
| Connector Name | CENTER SPEAKER |
| Connector Type | TK02EBR        |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | LG            | -                           |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M66                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH40FW-NH                  |



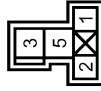
| Terminal No. | Color of Wire | Signal Name [Specification]    |
|--------------|---------------|--------------------------------|
| 28           | R             | VEHICLE SPEED SIGNAL (8-PULSE) |

|                |                            |
|----------------|----------------------------|
| Connector No.  | M67                        |
| Connector Name | UNIFIED METER AND A/C AMP. |
| Connector Type | TH02FW-NH                  |



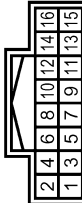
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 56           | L             | CAN-H                       |
| 72           | P             | CAN-L                       |

|                |                    |
|----------------|--------------------|
| Connector No.  | M69                |
| Connector Name | BACK-UP LAMP RELAY |
| Connector Type | MS02LE-M2-1C       |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | -                           |
| 2            | W             | -                           |
| 3            | LG            | -                           |
| 5            | O             | -                           |

|                |                      |
|----------------|----------------------|
| Connector No.  | M72                  |
| Connector Name | MULTIFUNCTION SWITCH |
| Connector Type | TH10FW-NH            |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 3            | L             | ACC                         |
| 6            | G             | AV COMM (H)                 |
| 8            | R             | AV COMM (L)                 |
| 9            | BR            | SW GND                      |
| 14           | SB            | EJECT SIGNAL                |

|                |                          |
|----------------|--------------------------|
| Connector No.  | M75                      |
| Connector Name | DISPLAY UNIT (WITH NAVI) |
| Connector Type | TH24FW-NH                |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | GND                         |
| 2            | Y             | BATTERY                     |
| 3            | LG            | ACC                         |
| 4            | SHIELD        | SHIELD                      |
| 5            | R             | AUX IMAGE GND               |
| 6            | B             | RGB (G.GREEN) SIGNAL        |
| 7            | V             | SHIELD                      |
| 8            | R             | HP                          |
| 9            | O             | RGB AREA (S) SIGNAL         |
| 11           | L             | COMM (CONT->DISP)           |
| 12           | W             | CAMERA IMAGE SIGNAL         |

|    |    |                     |
|----|----|---------------------|
| 13 | B  | GND                 |
| 14 | B  | SHIELD              |
| 15 | G  | AUX IMAGE SIGNAL    |
| 17 | W  | RGB (R.RED) SIGNAL  |
| 18 | R  | RGB (B.BLUE) SIGNAL |
| 19 | G  | RGB SYNC            |
| 20 | W  | VP                  |
| 21 | B  | SHIELD              |
| 22 | LG | COMM (DISP->CONT)   |
| 23 | B  | SHIELD              |

A B C D E F G H I J K L M O P

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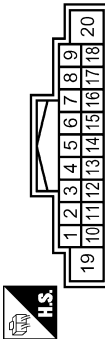
# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M80                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH18FW-GSZ                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SB            | AMP_ON SIGNAL               |
| 2            | O             | SOUND SIGNAL FRONT LH (+)   |
| 3            | W             | SOUND SIGNAL FRONT LH (-)   |
| 4            | V             | SOUND SIGNAL REAR LH (+)    |
| 5            | LG            | SOUND SIGNAL REAR LH (-)    |
| 6            | P             | STRG SW A                   |
| 7            | GR            | ACC                         |
| 9            | L             | ILLUMINATION                |
| 10           | B             | SHIELD                      |
| 11           | R             | SOUND SIGNAL FRONT RH (+)   |
| 12           | G             | SOUND SIGNAL FRONT RH (-)   |

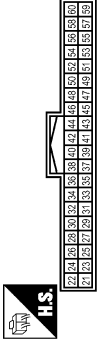
|                |                             |
|----------------|-----------------------------|
| Connector No.  | M88                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH12FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 61           | W             | RGB (RFRED) SIGNAL          |
| 62           | B             | RGB (GGREEN) SIGNAL         |
| 63           | R             | RGB (BBLUE) SIGNAL          |
| 64           | V             | SHIELD                      |
| 65           | G             | RGB SYNC                    |
| 66           | B             | SHIELD                      |
| 67           | O             | RGB AREA(YS) SIGNAL         |
| 68           | R             | HP                          |
| 69           | W             | HP                          |
| 70           | L             | COMM (CONT->DISP)           |
| 71           | LG            | COMM (DISP->CONT)           |

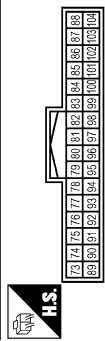
|    |    |                          |
|----|----|--------------------------|
| 13 | BR | SOUND SIGNAL REAR RH (+) |
| 14 | Y  | SOUND SIGNAL REAR RH (-) |
| 15 | B  | STRG SW GND              |
| 16 | L  | STRG SW B                |
| 18 | Y  | BATTERY                  |
| 20 | B  | GND                      |

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M87                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH40FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 21           | B             | GND                         |
| 22           | Y             | BATTERY                     |
| 23           | B             | GND                         |
| 24           | Y             | BATTERY                     |
| 25           | V             | ACC                         |
| 26           | G             | MICROPHONE YCC              |
| 27           | SHIELD        | MICROPHONE GND              |
| 28           | R             | MICROPHONE SIGNAL           |
| 35           | G             | IGNITION                    |
| 36           | SB            | PARKING BRAKE               |
| 37           | O             | REVERSE                     |

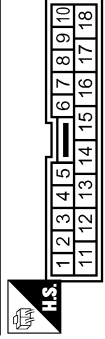
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|----------------|-----------------------------|
| Connector No.  | M89                         |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | TH32FW-NH                   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 79           | R             | Pod SOUND SIGNAL LH (+)     |
| 80           | B             | Pod SOUND SIGNAL RH (+)     |
| 81           | SHIELD        | SHIELD                      |
| 85           | SB            | EJECT SIGNAL                |
| 86           | SHIELD        | SHIELD                      |
| 87           | W             | AUX SOUND SIGNAL LH (+)     |
| 88           | B             | AUX SOUND SIGNAL GND        |
| 95           | W             | Pod SOUND SIGNAL LH (-)     |
| 96           | G             | Pod SOUND SIGNAL RH (-)     |
| 102          | BR            | SW GND                      |
| 103          | R             | AUX SOUND SIGNAL RH (+)     |

|    |    |                         |
|----|----|-------------------------|
| 38 | GR | VEHICLE SPEED (8-PULSE) |
| 40 | W  | CONNECTION RECOGNITION  |
| 41 | B  | CONTROL SIGNAL 1        |
| 44 | SB | MODE CHANGE SIGNAL      |
| 48 | G  | AV COMM (R)             |
| 49 | R  | AV COMM (L)             |
| 50 | Y  | AV COMM (R)             |
| 51 | LG | AV COMM (L)             |
| 52 | L  | CAN-H                   |
| 53 | P  | CAN-L                   |

|                |              |
|----------------|--------------|
| Connector No.  | M106         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK10MPP-HSB  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | - [With rear view camera]   |
| 2            | G             | - [With rear view camera]   |
| 3            | SHIELD        | - [With rear view camera]   |

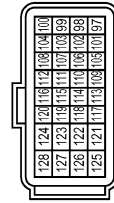
# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

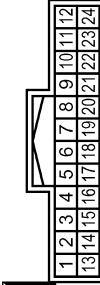
[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                    |
|----------------|--------------------|
| Connector No.  | M107               |
| Connector Name | ECM                |
| Connector Type | RHE2FGY-R28-R-LH-Z |



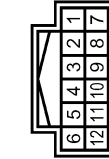
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|----------------|--------------|
| Connector No.  | M111         |
| Connector Name | iPod ADAPTER |
| Connector Type | TH24FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 113          | P             | VEHCAN-L1                   |
| 114          | L             | VEHCAN-H1                   |

| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | iPod SOUND SIGNAL LH (-)    |
| 2            | B             | iPod SOUND SIGNAL RH (-)    |
| 3            | V             | ACC                         |
| 4            | R             | AV COMM (L)                 |
| 5            | Y             | BATTERY                     |
| 8            | W             | CHARGE POWER                |
| 9            | P             | COMM (iPod ADAPTER->iPod)   |
| 10           | L             | COMM (iPod->iPod ADAPTER)   |
| 11           | O             | ACCESSORY IDENTIFY          |
| 12           | W             | iPod SOUND SIGNAL RH (+)    |
| 13           | W             | iPod SOUND SIGNAL LH (+)    |

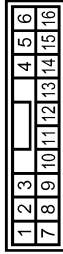
|                |              |
|----------------|--------------|
| Connector No.  | M114         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12FW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             | -                           |
| 2            | G             | -                           |
| 3            | O             | -                           |
| 4            | SHIELD        | -                           |
| 5            | W             | -                           |
| 6            | B             | -                           |
| 7            | R             | -                           |
| 8            | BR            | -                           |
| 9            | W             | -                           |
| 10           | W             | -                           |
| 11           | SHIELD        | -                           |

|    |        |                             |
|----|--------|-----------------------------|
| 14 | G      | iPod SOUND SIGNAL RH (-)    |
| 15 | SHIELD | SHIELD                      |
| 16 | G      | AV COMM (H)                 |
| 17 | BR     | GND                         |
| 19 | SHIELD | SHIELD                      |
| 21 | W      | iPod CONNECTION RECOGNITION |
| 22 | G      | ACCESSORY DETECT            |
| 23 | R      | iPod SOUND SIGNAL GND       |
| 24 | B      | iPod SOUND SIGNAL LH (+)    |

|                |                      |
|----------------|----------------------|
| Connector No.  | M112                 |
| Connector Name | iPod SIDE (WITH A/T) |
| Connector Type | IP16FGY              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | B             | iPod SOUND SIGNAL LH (+)    |
| 2            | R             | iPod SOUND SIGNAL GND       |
| 5            | L             | COMM (iPod->iPod ADAPTER)   |
| 6            | P             | COMM (iPod ADAPTER->iPod)   |
| 7            | W             | iPod SOUND SIGNAL RH (+)    |
| 9            | W             | iPod CONNECTION RECOGNITION |
| 10           | BR            | GND                         |
| 12           | W             | CHARGE POWER                |
| 14           | SHIELD        | SHIELD                      |
| 15           | G             | ACCESSORY DETECT            |
| 16           | O             | ACCESSORY IDENTIFY          |

|                |              |
|----------------|--------------|
| Connector No.  | M116         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK36MF-NS10  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 30           | LG            | -                           |
| 31           | W             | -                           |
| 41           | O             | -                           |

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# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

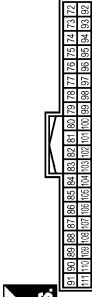
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|----------------|-----------------|---|---|
| Connector No.  | M117            |   |   |
| Connector Name | WIRE TO WIRE    | - | - |
| Connector Type | TH80MW-CS16-TM4 |   |   |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 51           | P             | -                           |
| 52           | V             | -                           |
| 53           | LG            | -                           |
| 54           | B             | -                           |
| 60           | Y             | -                           |
| 61           | SB            | -                           |
| 62           | W             | -                           |
| 63           | G             | -                           |
| 64           | R             | -                           |
| 65           | L             | -                           |
| 66           | BR            | -                           |

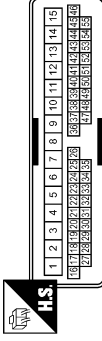
|     |   |   |
|-----|---|---|
| 67  | O | - |
| 98  | P | - |
| 100 | L | - |

|                |                           |  |
|----------------|---------------------------|--|
| Connector No.  | M122                      |  |
| Connector Name | BCM (BODY CONTROL MODULE) |  |
| Connector Type | TH40FB-NH                 |  |



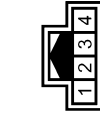
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 90           | P             | CAN-L                       |
| 91           | L             | CAN-H                       |

|                |              |  |
|----------------|--------------|--|
| Connector No.  | M124         |  |
| Connector Name | WIRE TO WIRE |  |
| Connector Type | TH40MW-GS15  |  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 9            | R             | -                           |
| 10           | G             | -                           |
| 36           | R             | -                           |
| 37           | BR            | -                           |

|                |              |  |
|----------------|--------------|--|
| Connector No.  | M145         |  |
| Connector Name | WIRE TO WIRE |  |
| Connector Type | TH8AMW-NH    |  |



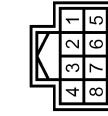
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | B             | -                           |
| 4            | W             | -                           |

|                |                                  |  |
|----------------|----------------------------------|--|
| Connector No.  | M154                             |  |
| Connector Name | AUXILIARY INPUT JACKS (WITH A/T) |  |
| Connector Type | A0BFV                            |  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | SOUND SIGNAL RH (+)         |
| 2            | B             | SOUND SIGNAL GND            |
| 3            | W             | SOUND SIGNAL LH (+)         |
| 7            | G             | AUX IMAGE SIGNAL            |
| 8            | R             | AUX IMAGE GND               |

|                |              |  |
|----------------|--------------|--|
| Connector No.  | M155         |  |
| Connector Name | WIRE TO WIRE |  |
| Connector Type | TH08FPW-NH   |  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        | -                           |
| 2            | B             | -                           |
| 3            | R             | -                           |
| 4            | W             | -                           |
| 5            | B             | -                           |
| 6            | B             | -                           |
| 7            | G             | -                           |
| 8            | R             | -                           |

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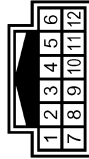
# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

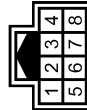
## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |              |
|----------------|--------------|
| Connector No.  | M181         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | L             |                             |
| 2            | G             |                             |
| 3            | O             |                             |
| 4            | SHIELD        |                             |
| 5            | GR            |                             |
| 6            | BR            |                             |
| 7            | W             |                             |
| 8            | BR            |                             |
| 9            | L             |                             |
| 10           | W             |                             |
| 11           | SHIELD        |                             |

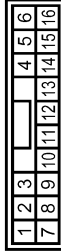
|                |              |
|----------------|--------------|
| Connector No.  | M381         |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH18MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | SHIELD        |                             |
| 2            | B             |                             |
| 3            | R             | - [With NAVI]               |
| 4            | W             | - [With NAVI]               |
| 5            | SHIELD        |                             |
| 6            | SHIELD        |                             |
| 7            | G             |                             |
| 8            | R             |                             |

|    |   |   |
|----|---|---|
| 12 | P | - |
|----|---|---|

|                |                      |
|----------------|----------------------|
| Connector No.  | M182                 |
| Connector Name | iPod SIDE (WITH M/T) |
| Connector Type | IP16FGY              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | BR            | iPod SOUND SIGNAL LH (+)    |
| 2            | W             | iPod SOUND SIGNAL GND       |
| 5            | L             | COMM (iPod->iPod ADAPTER)   |
| 6            | P             | COMM (iPod ADAPTER->iPod)   |
| 7            | GR            | iPod SOUND SIGNAL RH (+)    |
| 9            | W             | iPod CONNECTION RECOGNITION |
| 10           | BR            | GND                         |
| 12           | L             | CHARGE POWER                |
| 14           | SHIELD        | SHIELD                      |
| 15           | G             | ACCESSORY DETECT            |
| 16           | O             | ACCESSORY IDENTIFY          |

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M371                        |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | GT13SHF-2/1S-HU             |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 105          | -             | FM SUB                      |
| 106          | -             | AM-FM MAIN                  |
| 107          | -             | ANTENNA AMP. ON SIGNAL      |

|                |                                   |
|----------------|-----------------------------------|
| Connector No.  | M303                              |
| Connector Name | COMBINATION SWITCH (SPIRAL CABLE) |
| Connector Type | TK08FGY                           |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 14           | W             |                             |
| 15           | L             |                             |
| 17           | BR            |                             |

|                |                             |
|----------------|-----------------------------|
| Connector No.  | M372                        |
| Connector Name | AV CONTROL UNIT (WITH NAVI) |
| Connector Type | FAKRA JACK                  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 108          | -             | SATELLITE ANTENNA           |
| 109          | SHIELD        | SHIELD                      |

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# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|   |                             |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
|---|-----------------------------|------------|----------------|-----------------------------|----------------|-------------|--------------|-----|-----|---------------|-----|--------|-----------------------------|-------------|--------|---|---------------|------|----------------|--------------|----------------|----------------|--------------|---|---|---------------|-----|--------|-----------------------------|------------------------|------------|---|---------------|------|----------------|---------------------|----------------|----------------|--------------|---|---------------|-----|-----------------------------|-----|---|---------------|-----------------------------|----------------|--------------|----------------|---|---------------|------|----------------|---------------|----------------|------------------|-----------------------------|-----|-----|---|---------------|-----|-----|-----|-----------------------------|-----|-----|-----|
| <table border="1"> <tr><td>Connector No.</td><td>M373</td></tr> <tr><td>Connector Name</td><td>AV CONTROL UNIT (WITH NAVI)</td></tr> <tr><td>Connector Type</td><td>GTB-1S-HU</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>110</td><td>111</td></tr> <tr><td>Color of Wire</td><td>---</td><td>SHIELD</td></tr> <tr><td>Signal Name [Specification]</td><td>GPS ANTENNA</td><td>SHIELD</td></tr> </table> | Connector No.               | M373       | Connector Name | AV CONTROL UNIT (WITH NAVI) | Connector Type | GTB-1S-HU   | Terminal No. | 110 | 111 | Color of Wire | --- | SHIELD | Signal Name [Specification] | GPS ANTENNA | SHIELD | <table border="1"> <tr><td>Connector No.</td><td>M374</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>GT16C-1PP-HU</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>---</td><td>SHIELD</td></tr> <tr><td>Signal Name [Specification]</td><td>---</td><td>---</td></tr> </table>                          | Connector No. | M374 | Connector Name | WIRE TO WIRE | Connector Type | GT16C-1PP-HU   | Terminal No. | 1 | 2 | Color of Wire | --- | SHIELD | Signal Name [Specification] | ---                    | ---        | <table border="1"> <tr><td>Connector No.</td><td>M375</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>GT13SC-2/1S-HU</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td><td>3</td></tr> <tr><td>Color of Wire</td><td>---</td><td>---</td><td>---</td></tr> <tr><td>Signal Name [Specification]</td><td>---</td><td>---</td><td>---</td></tr> </table> | Connector No. | M375 | Connector Name | WIRE TO WIRE        | Connector Type | GT13SC-2/1S-HU | Terminal No. | 1 | 2             | 3   | Color of Wire               | --- | ---   | ---           | Signal Name [Specification] | ---            | ---          | ---            | <table border="1"> <tr><td>Connector No.</td><td>M376</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>GT13SCN-2/1PP-HU</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td><td>3</td></tr> <tr><td>Color of Wire</td><td>---</td><td>---</td><td>---</td></tr> <tr><td>Signal Name [Specification]</td><td>---</td><td>---</td><td>---</td></tr> </table> | Connector No. | M376 | Connector Name | WIRE TO WIRE  | Connector Type | GT13SCN-2/1PP-HU | Terminal No.                | 1   | 2   | 3 | Color of Wire | --- | --- | --- | Signal Name [Specification] | --- | --- | --- |
| Connector No.   | M373                        |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Name  | AV CONTROL UNIT (WITH NAVI) |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Type  | GTB-1S-HU                   |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Terminal No.  | 110                         | 111        |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Color of Wire   | ---                         | SHIELD     |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Signal Name [Specification]   | GPS ANTENNA                 | SHIELD     |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector No.   | M374                        |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Name  | WIRE TO WIRE                |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Type  | GT16C-1PP-HU                |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Terminal No.  | 1                           | 2          |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Color of Wire   | ---                         | SHIELD     |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Signal Name [Specification]   | ---                         | ---        |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector No.   | M375                        |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Name  | WIRE TO WIRE                |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Type  | GT13SC-2/1S-HU              |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Terminal No.  | 1                           | 2          | 3              |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Color of Wire   | ---                         | ---        | ---            |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Signal Name [Specification]   | ---                         | ---        | ---            |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector No.   | M376                        |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Name  | WIRE TO WIRE                |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Type  | GT13SCN-2/1PP-HU            |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Terminal No.  | 1                           | 2          | 3              |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Color of Wire   | ---                         | ---        | ---            |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Signal Name [Specification]   | ---                         | ---        | ---            |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| <table border="1"> <tr><td>Connector No.</td><td>M377</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>GT16C-1S-HU</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>---</td><td>SHIELD</td></tr> <tr><td>Signal Name [Specification]</td><td>---</td><td>---</td></tr> </table>                             | Connector No.               | M377       | Connector Name | WIRE TO WIRE                | Connector Type | GT16C-1S-HU | Terminal No. | 1   | 2   | Color of Wire | --- | SHIELD | Signal Name [Specification] | ---         | ---    | <table border="1"> <tr><td>Connector No.</td><td>M378</td></tr> <tr><td>Connector Name</td><td>ANTENNA AMP.</td></tr> <tr><td>Connector Type</td><td>GT13SC-1/1S-HU</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>---</td><td>---</td></tr> <tr><td>Signal Name [Specification]</td><td>ANTENNA AMP. ON SIGNAL</td><td>AM-FM MAIN</td></tr> </table> | Connector No. | M378 | Connector Name | ANTENNA AMP. | Connector Type | GT13SC-1/1S-HU | Terminal No. | 1 | 2 | Color of Wire | --- | ---    | Signal Name [Specification] | ANTENNA AMP. ON SIGNAL | AM-FM MAIN | <table border="1"> <tr><td>Connector No.</td><td>M379</td></tr> <tr><td>Connector Name</td><td>GLASS ANTENNA (SUB)</td></tr> <tr><td>Connector Type</td><td>PR1FB-A</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>1</td></tr> <tr><td>Color of Wire</td><td>---</td></tr> <tr><td>Signal Name [Specification]</td><td>---</td></tr> </table>   | Connector No. | M379 | Connector Name | GLASS ANTENNA (SUB) | Connector Type | PR1FB-A        | Terminal No. | 1 | Color of Wire | --- | Signal Name [Specification] | --- | <table border="1"> <tr><td>Connector No.</td><td>M380</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>GT16-1PP-HU</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>---</td><td>SHIELD</td></tr> <tr><td>Signal Name [Specification]</td><td>---</td><td>---</td></tr> </table> | Connector No. | M380                        | Connector Name | WIRE TO WIRE | Connector Type | GT16-1PP-HU   | Terminal No.  | 1    | 2              | Color of Wire | ---            | SHIELD           | Signal Name [Specification] | --- | --- |   |               |     |     |     |                             |     |     |     |
| Connector No.   | M377                        |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Name  | WIRE TO WIRE                |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Type  | GT16C-1S-HU                 |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Terminal No.  | 1                           | 2          |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Color of Wire   | ---                         | SHIELD     |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Signal Name [Specification]   | ---                         | ---        |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector No.   | M378                        |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Name  | ANTENNA AMP.                |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Type  | GT13SC-1/1S-HU              |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Terminal No.  | 1                           | 2          |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Color of Wire   | ---                         | ---        |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Signal Name [Specification]   | ANTENNA AMP. ON SIGNAL      | AM-FM MAIN |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector No.   | M379                        |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Name  | GLASS ANTENNA (SUB)         |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Type  | PR1FB-A                     |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Terminal No.  | 1                           |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Color of Wire   | ---                         |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Signal Name [Specification]   | ---                         |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector No.   | M380                        |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Name  | WIRE TO WIRE                |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Connector Type  | GT16-1PP-HU                 |            |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Terminal No.  | 1                           | 2          |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Color of Wire   | ---                         | SHIELD     |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |
| Signal Name [Specification]   | ---                         | ---        |                |                             |                |             |              |     |     |               |     |        |                             |             |        |   |               |      |                |              |                |                |              |   |   |               |     |        |                             |                        |            |   |               |      |                |                     |                |                |              |   |               |     |                             |     |   |               |                             |                |              |                |   |               |      |                |               |                |                  |                             |     |     |   |               |     |     |     |                             |     |     |     |

JCNWA1786GE



# CAMERA CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

|                |                      |
|----------------|----------------------|
| Connector No.  | M381                 |
| Connector Name | GLASS ANTENNA (MAIN) |
| Connector Type | F01FB-A              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | M382         |
| Connector Name | WIRE TO WIRE |
| Connector Type | GT16C-IS-HU  |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

|                |                         |
|----------------|-------------------------|
| Connector No.  | M383                    |
| Connector Name | SATELLITE RADIO ANTENNA |
| Connector Type | GT16C-IPP-HU            |



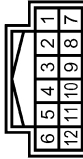
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | -             | -                           |
| 2            | SHIELD        | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | R1           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TK16FW-NSB   |



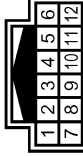
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | - [With rear view camera]   |
| 2            | G             | - [With rear view camera]   |
| 3            | SHIELD        | -                           |

|                |              |
|----------------|--------------|
| Connector No.  | R2           |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12PW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | SHIELD        | -                           |
| 4            | R             | - [With rear view camera]   |
| 5            | G             | - [With rear view camera]   |

|                |              |
|----------------|--------------|
| Connector No.  | R11          |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH12MW-NH    |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | SHIELD        | -                           |
| 4            | R             | -                           |
| 5            | G             | -                           |

|                |            |
|----------------|------------|
| Connector No.  | R17        |
| Connector Name | MICROPHONE |
| Connector Type | TK64FW     |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | R             | MICROPHONE SIGNAL           |
| 2            | SHIELD        | SHIELD                      |
| 4            | G             | MICROPHONE VCC              |

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
O  
P

AV

## SYMPTOM DIAGNOSIS

### MULTI AV SYSTEM SYMPTOMS

#### Symptom Table

INFOID:000000004238837

#### RELATED TO NAVIGATION

#### Trouble Diagnosis Chart by Symptom

| Symptoms  | Check items   | Possible malfunction location / Action to take   |
|---|---|--|
| Multifunction switch and preset switch operation does not work. | <ul style="list-style-type: none"> <li>All switches cannot be operated.</li> <li>"MULTI AV" is displayed on system selection screen when the CONSULT-III is started.</li> </ul>         | <ul style="list-style-type: none"> <li>Multifunction switch power supply and ground circuit.</li> <li>AV communication circuit between AV control unit and multifunction switch.</li> </ul> Perform CONSULT-III self-diagnosis. Refer to <a href="#">AV-383, "CONSULT - III Function (MULTI AV)"</a> . |
|   | <ul style="list-style-type: none"> <li>All switches cannot be operated.</li> <li>"MULTI AV" is not displayed on system selection screen when the CONSULT-III is initialized.</li> </ul> | AV control unit power supply and ground circuit malfunction. Refer to <a href="#">AV-413, "AV CONTROL UNIT : Diagnosis Procedure"</a> .  |
|   | Only specified switch cannot be operated.   | Multifunction switch or preset switch malfunction. Perform multifunction switch and preset switch self-diagnosis function. Refer to <a href="#">AV-369, "Diagnosis Description"</a> .  |
| Fuel economy display, vehicle setting operation is abnormal.    | There is malfunction in the CONSULT-III self-diagnosis result.  | Perform detected DTC self-diagnosis. Refer to <a href="#">AV-383, "CONSULT - III Function (MULTI AV)"</a> .  |
|   | There is no malfunction in the self-diagnosis results.  | Ignition signal circuit malfunction. Refer to <a href="#">AV-413, "AV CONTROL UNIT : Diagnosis Procedure"</a> .  |
| Guide sound is not heard.                                       | On the setting display select "system sound (guide sound volume, etc.)," and confirm that guide sound is ON.  | AV control unit malfunction. Replace AV control unit. Refer to <a href="#">AV-575, "Exploded View"</a> .   |

#### RELATED TO HANDS-FREE PHONE

- Check that the cellular phone is corresponding type (Bluetooth® correspond) when the hands-free related malfunction vehicle is in service before performing a diagnosis.
- There is a case that malfunction occurs due to the version change of the phone type, etc. even though it is a corresponding type. Therefore, confirm it by changing the cellular phone to another corresponding type phone, and check that it operates normally. It is necessary to distinguish whether the cause is the vehicle or cellular phone.

#### Simple Check for Bluetooth® Communication

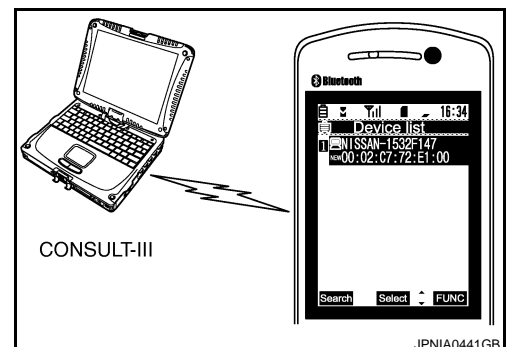
If cellular phone and AV control unit cannot be connected with Bluetooth® communication, following procedure allows the technician to judge which device has malfunction.

- Turn on a cellular phone, not connecting Bluetooth® communication.
- Start CONSULT-III, then start Windows®.
- Set CONSULT-III near a cellular phone.
- When operated Bluetooth® registration by cellular phone, check if CONSULT-III\* would be displayed on the device name.  
(If other Bluetooth® device is located near cellular phone, a name of the device would be displayed also.)

**NOTE:**

\*:Displayed device name is "NISSAN-\*\*\*\*\*".

- If no device name is displayed, cellular phone is malfunctioning. Repair the cellular phone first, then perform diagnosis.
- If CONSULT-III is displayed on device name, cellular phone is normal. Perform diagnosis as per the following table.



## MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]

< SYMPTOM DIAGNOSIS >

Trouble Diagnosis Chart by Symptom

| Symptoms  | Check items   | Probable malfunction location   |
|---|---|---|
| Does not recognize cellular phone connection. (no connection is displayed on the display at the guide.) | Repeat the registration of cellular phone.  | AV control unit malfunction.<br>Replace AV control unit. Refer to <a href="#">AV-575, "Exploded View"</a> . |
| Hands-free phone cannot be established.   | <ul style="list-style-type: none"> <li>Hands-free phone operation can be made, but the communication cannot be established.</li> <li>Hands-free phone operation can be performed, however, voice between each other cannot be heard during the conversation.</li> </ul> | AV control unit malfunction.<br>Replace AV control unit. Refer to <a href="#">AV-575, "Exploded View"</a> . |
| The party's voice cannot be heard by hands-free phone.  | Check the "microphone speaker" in Inspection & Adjustment Mode if sound is heard.   | AV control unit malfunction.<br>Replace AV control unit. Refer to <a href="#">AV-575, "Exploded View"</a> . |
|   | Check the "microphone speaker" in Inspection & Adjustment Mode if sound is not heard.   | AV control unit malfunction.<br>Replace AV control unit. Refer to <a href="#">AV-575, "Exploded View"</a> . |
| Originating sound is not heard by the other party with hands-free phone communication.                  | Sound operation function is normal.   | AV control unit malfunction.<br>Replace AV control unit. Refer to <a href="#">AV-575, "Exploded View"</a> . |
|   | Sound operation function does not work.   | Microphone signal circuit malfunction.<br>Refer to <a href="#">AV-427, "Diagnosis Procedure"</a> .          |

### RELATED TO CAMERA

Trouble Diagnosis Chart by Symptom

| Symptoms   | Check items  | Probable malfunction location  |
|--|--|--|
| Camera image is not displayed (displayed in black and nothing can be displayed)  | AUX image is not displayed.  | <ul style="list-style-type: none"> <li>Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and display unit. Refer to <a href="#">AV-422, "Diagnosis Procedure"</a>.</li> <li>Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit. Refer to <a href="#">AV-423, "Diagnosis Procedure"</a>.</li> </ul> |
| Camera image is not shown. (Vehicle width and possible route line is displayed.) | —  | <ul style="list-style-type: none"> <li>Camera image signal circuit between camera control unit and rear view camera. Refer to <a href="#">AV-429, "Diagnosis Procedure"</a>.</li> <li>Rear view camera ON signal circuit. Refer to <a href="#">AV-430, "Diagnosis Procedure"</a>.</li> </ul>   |
| Camera image is not displayed. (Only warning message under area is displayed.)   | There is malfunction in the CONSULT-III self-diagnosis result.   | Perform detected DTC self-diagnosis.<br>Refer to <a href="#">AV-383, "CONSULT - III Function (MULTI AV)"</a> .   |
|  | AUX image is normal.   | Camera image signal circuit malfunction between camera control unit and display unit.<br>Refer to <a href="#">AV-431, "Diagnosis Procedure"</a> .  |
|  | AUX image is not displayed.  | RGB area (YS) signal circuit malfunction between AV control unit and display unit.<br>Refer to <a href="#">AV-421, "Diagnosis Procedure"</a> .   |
|  | Select "Camera Cont." of confirmation/Adjustment mode, Reverse Sensor is not turned ON at "Connection Confirmation". | Reverse signal circuit malfunction (camera control unit).  |
| CAMERA image is rolling.   | AUX image is also rolling.   | Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit.<br>Refer to <a href="#">AV-423, "Diagnosis Procedure"</a> .   |

# MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]

< SYMPTOM DIAGNOSIS >

| Symptoms  | Check items  | Probable malfunction location  |
|---|--|--|
| Camera image does not switch.   | Malfunction of self-diagnosis result is indicated.   | Camera-connection recognition signal circuit malfunction between AV control unit and camera control unit. Refer to <a href="#">AV-410, "Diagnosis Procedure"</a> .   |
|   | Malfunction of self-diagnosis result is not indicated.   | Reverse signal circuit malfunction (AV control unit).  |
| Possible route line is indicated abnormally when camera image is displayed. | "Steer. Angle Sensor" turns ON at "Confirmation/Adjustment" of on board diagnosis item "Camera Cont." turns ON.          | Sensor signal 3 circuit malfunction. Refer to <a href="#">AV-434, "Diagnosis Procedure"</a> .  |
|   | "Steer. Angle Sensor" turns ON at "Confirmation/Adjustment" of on board diagnosis item "Camera Cont." does not turns ON. | <ul style="list-style-type: none"> <li>Sensor signal 1 circuit. Refer to <a href="#">AV-432, "Diagnosis Procedure"</a>.</li> <li>Sensor signal 2 circuit. Refer to <a href="#">AV-432, "Diagnosis Procedure"</a>.</li> </ul> |

## RELATED TO RGB IMAGE

Trouble Diagnosis Chart by Symptom

| Symptoms                          | Check items  | Possible malfunction location / Action to take  |
|-----------------------------------|--|---|
| RGB image is not shown.           | <ul style="list-style-type: none"> <li>All RGB images are not shown.</li> <li>"MULTI AV" is displayed on system selection screen when the CONSULT-III is started.</li> </ul>     | Perform CONSULT-III self-diagnosis. Refer to <a href="#">AV-383, "CONSULT - III Function (MULTI AV)"</a> .                                      |
|                                   | <ul style="list-style-type: none"> <li>All RGB images are not shown.</li> <li>"MULTI AV" is not displayed on system selection screen when the CONSULT-III is started.</li> </ul> | AV control unit power supply and ground circuit malfunction. Refer to <a href="#">AV-413, "AV CONTROL UNIT : Diagnosis Procedure"</a> .         |
| Color of RGB image is not proper. | Light blue (Cyan) tint.  | RGB signal (R: red) circuit malfunction between AV control unit and display unit. Refer to <a href="#">AV-417, "Diagnosis Procedure"</a> .      |
|                                   | Purple (Magenta) tint.   | RGB signal (G: green) circuit malfunction between AV control unit and display unit. Refer to <a href="#">AV-418, "Diagnosis Procedure"</a> .    |
|                                   | Screen looks yellowish.  | RGB signal (B: blue) circuit malfunction between AV control unit and display unit. Refer to <a href="#">AV-419, "Diagnosis Procedure"</a> .     |
| RGB screen is rolling.            | —  | RGB synchronizing signal circuit malfunction between AV control unit and display unit. Refer to <a href="#">AV-420, "Diagnosis Procedure"</a> . |

## RELATED TO VOICE CONTROL

Trouble Diagnosis Chart by Symptom

| Symptoms  | Check items  | Probable malfunction location  |
|---|--|--|
| The voice cannot be controlled even if the voice control screen is displayed. | Voice sounds at "Voice Microphone Test" of Confirmation/Adjustment mode.                                 | AV control unit malfunction. Replace AV control unit. Refer to <a href="#">AV-575, "Exploded View"</a> . |
|   | Voice does not sound at "Voice Microphone Test" of Confirmation/Adjustment mode.                         | Microphone circuit malfunction. Refer to <a href="#">AV-427, "Diagnosis Procedure"</a> .                 |
| The voice cannot be controlled (Voice control screen is not displayed).       | Steering switch's "SOURCE", "MENU UP", "MENU DOWN", "ENTER" switches work, but "⏏" switch does not work. | Steering switch malfunction. Replace steering switch. Refer to <a href="#">AV-588, "Exploded View"</a> . |
|   | Steering switch's "SOURCE", "MENU UP", "MENU DOWN", "⏏", "ENTER" switches do not work.                   | Steering switch signal A circuit malfunction. Refer to <a href="#">AV-436, "Diagnosis Procedure"</a> .   |
|   | All steering switches do not work.   | Steering switch signal GND circuit malfunction. Refer to <a href="#">AV-440, "Diagnosis Procedure"</a> . |

# MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]

< SYMPTOM DIAGNOSIS >

## RELATED TO AUDIO

### Trouble Diagnosis Chart by Symptom

| Symptoms   | Check items   | Possible malfunction location / Action to take  |
|--|---|---|
| The CD cannot be removed.                          | —   | CD eject signal circuit malfunction between AV control unit and preset switch.<br>Refer to <a href="#">AV-426, "Diagnosis Procedure"</a> .  |
| Audio sound is not heard.                          | No sound from all speakers.   | <ul style="list-style-type: none"> <li>Amp. ON signal circuit.</li> <li>BOSE amp. power supply and ground circuit.</li> </ul> Refer to <a href="#">AV-415, "BOSE AMP. : Diagnosis Procedure"</a> .  |
|  | Sound is not heard from rear woofer.  | <ul style="list-style-type: none"> <li>Sound signal woofer circuit between BOSE amp. and rear woofer.</li> <li>Woofer amp. ON signal circuit between BOSE amp. and woofer amp.</li> </ul>   |
|  | Sound is not heard from center speaker.   | Sound signal center speaker circuit.  |
|  | Sound is heard only from specific places (RH front, RH rear, LH front and LH rear). | Sound signal circuit of suspect system.   |
| It does not change to "Driver's Audio Stage" mode. | —   | Mode change signal circuit.<br>Refer to <a href="#">AV-425, "Diagnosis Procedure"</a> .   |
| Satellite radio is not received.                   | There is malfunction in the CONSULT-III self-diagnosis result.                      | Perform CONSULT-III self-diagnosis.<br>Refer to <a href="#">AV-383, "CONSULT - III Function (MULTI AV)"</a> .   |
|  | There is no malfunction in the CONSULT-III self-diagnosis result.                   | Perform the following inspection procedure. <ol style="list-style-type: none"> <li>Check satellite radio antenna mounting nut for looseness.</li> </ol> <b>NOTE:</b><br>Tightening torque: 6.5 N·m (0.66 kg·m, 58 in·lb) <ol style="list-style-type: none"> <li>Visually check for satellite radio antenna feeder.</li> <li>Replace the satellite radio antenna.<br/>Refer to <a href="#">AV-585, "Exploded View"</a>.</li> <li>Replace the AV control unit.<br/>Refer to <a href="#">AV-575, "Exploded View"</a>.</li> </ol> |
| AM/FM radio is not received.                       | Other audio sounds are normal.  | <ul style="list-style-type: none"> <li>Antenna amp. ON signal circuit.</li> <li>Antenna feeder.</li> </ul>  |

## RELATED TO iPod®

### Trouble Diagnosis Chart by Symptom

Connect another iPod® and check if the symptom is reproduced or not. If the symptom is reproduced, diagnose the vehicle. If no malfunction is detected, replace the iPod harness.

#### NOTE:

It is unable to check that between iPod® and iPod harness.

| Symptoms   | Check items   | Possible malfunction location / Action to take   |
|--|---|--|
| The sound of iPod® is not heard.                                 | Other audio sounds are normal.                          | <ul style="list-style-type: none"> <li>iPod sound signal circuit between AV control unit and iPod adapter.</li> <li>iPod sound signal circuit between iPod® and iPod adapter.</li> </ul> |
| It does not change to iPod mode.                                 | There is malfunction in the CONSULT-III self-diagnosis. | Perform CONSULT-III self-diagnosis.<br>Refer to <a href="#">AV-383, "CONSULT - III Function (MULTI AV)"</a> .  |
| "iPod is not connected" is displayed when it comes to iPod mode. | Connected to iPod®.                                     | iPod connection recognition signal circuit between iPod® and iPod adapter.   |
| iPod® cannot charge the battery.                                 | —   | iPod battery charge circuit between iPod® and iPod adapter.  |

## MULTI AV SYSTEM SYMPTOMS

**[BOSE AUDIO WITH NAVIGATION]**

< SYMPTOM DIAGNOSIS >

| Symptoms   | Check items | Possible malfunction location / Action to take        |
|--|-------------|---|
| The title of music file in the iPod® is not indicated. | —           | Communication circuit between iPod® and iPod adapter. |
| Accessing the iPod® is unavailable from the vehicle.   |             |   |

### RELATED TO STEERING SWITCH

Trouble Diagnosis Chart by Symptom

| Symptoms   | Probable malfunction location   |
|--|---|
| None of the steering switch operations work.   | Steering switch signal GND circuit malfunction.<br>Refer to <a href="#">AV-440, "Diagnosis Procedure"</a> . |
| Only specified switch (1) cannot be operated.  | Steering switch malfunction.<br>Refer to <a href="#">AV-588, "Exploded View"</a> .                          |
| Steering switch's "SOURCE", "MENU UP", "MENU DOWN", "⏪", "ENTER" switches do not work. | Steering switch signal A circuit malfunction.<br>Refer to <a href="#">AV-436, "Diagnosis Procedure"</a> .   |
| Steering switch's "⏩", "VOL UP", "VOL DOWN", "⏮" switches do not work.                 | Steering switch signal B circuit malfunction.<br>Refer to <a href="#">AV-438, "Diagnosis Procedure"</a> .   |

### RELATED TO AUXILIARY INPUT

Trouble Diagnosis Chart by Symptom

**NOTE:**

Check that there is no malfunction of AUX equipment main body before performing a diagnosis.

| Symptoms   | Check items   | Probable malfunction location   |
|--|---|---|
| No voice sound is heard when AUX mode is selected. | Voice sound is heard when other modes are selected. | AUX sound signal circuit (auxiliary input jacks to AV control unit).                              |
| Image is not displayed when AUX mode is selected.  | Camera image is displayed.                          | AUX image signal circuit malfunction.<br>Refer to <a href="#">AV-424, "Diagnosis Procedure"</a> . |

# NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## NORMAL OPERATING CONDITION

### Description

INFOID:000000004238838

**NOTE:**

For Navigation system operation information, refer to Navigation system Owner's Manual.

### BASIC OPERATIONS




| Symptom  | Possible cause  | Possible solution  |
|--|---|--|
| No image is displayed.   | The brightness is at the lowest setting.                                      | Adjust the brightness of the display.  |
|  | The systems in the video mode.  | Press <DISC-AUX> to change the mode.   |
|  | The display is turned off.  | Press <Day/Night> to turn on the display.                                    |
| No voice guidance is available. Or<br>The volume is too high or too low. | The volume is not set correctly, or it is turned off.                         | Adjust the volume of voice guidance.   |
|  | Voice guidance is not provided for certain streets (roads displayed in gray). | This is not a malfunction.   |
| No map is displayed on the screen.                                       | A screen other than map screen is displayed.                                  | Press <MAP>.   |
| The screen is too dim. The movement is slow.                             | The temperature in the interior of the vehicle is low.                        | Wait until the interior of the vehicle has warmed up.                        |
| Some pixels in the display are darker or brighter than others.           | This condition is an inherent characteristic of liquid crystal displays.      | This is not a malfunction.   |
| Some menu items cannot be selected.                                      | Some menu items become unavailable while the vehicle is driven.               | Park the vehicle in a safe location, and then operate the navigation system. |

**NOTE:**

Locations stored in the Address Book and other memory functions may be lost if the vehicle's battery is disconnected or becomes discharged. If this occurs, service the vehicle's battery as necessary and re-enter the information in the Address Book.

### RELATED TO VOICE RECOGNITION

#### Related to Basic Operation

| Symptom   | Possible cause   | Possible solution  |
|---|--|--|
| The system does not recognize your command.<br>or<br>The system recognizes your command incorrectly | The interior of the vehicle is too noisy.  | Close the windows or have other occupants quiet.   |
|   | The volume of your voice is too low.   | Speak louder.  |
|   | The volume if your voice is too loud.  | Speak softer.  |
|   | Your pronunciation is unclear.   | Speak clearly.   |
|   | You are speaking before the voice recognition is ready   | Press and release “  ” switch on the steering switch, and speak a command after the tone sounds.              |
|   | 8 seconds or more have passed after you pressed and released “  ” switch on the steering switch.                    | Make sure to speak a command within 8 seconds after you press and release “  ” switch on the steering switch. |
|   | Only a limited range of voice commands is usable for each screen.  | Use a correct voice command appropriate for the current screen.  |
| The fan of the air conditioner is too loud.   | If the air conditioner is set to “Auto”, the fan speed is automatically lowered and voice commands can be recognized more easily. Lower the fan speed as necessary or set the air conditioner to “Auto”. |  |

#### Related to Item Choice

The system should respond correctly to all voice commands without difficulty. If problems are encountered, follow the solutions given in this guide for the appropriate error.

## NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Where the solutions are listed by number, try each solution in turn, starting with number one, until the problem is resolved.

| Symptom/ error message  | Solution   |
|---|--|
| Displays "COMMAND NOT RECOGNIZED" or the system fails to interpret the command correctly. | 1. Ensure that the command format is valid.  |
|   | 2. Speak clearly without pausing between words and at a level appropriate to the ambient noise level.  |
|   | 3. Ensure that the ambient noise level is not excessive, for example, windows open or defrost on.<br><b>NOTE:</b><br>If it is too noisy to use the phone, it is likely that voice commands will not be recognized. |
|   | 4. If optional words of the command have been omitted, then command should be tried with these in place.   |
| The system consistently selects the wrong voicetag  | 1. Ensure that the voicetag requested matches what was originally stored. This can be confirmed by giving the "Addressbook" Directory or Phone Directory command.  |
|   | 2. Replace one of the voicetags being confused with a different voicetag.  |

Related to Telephone

The system should respond correctly to all voice commands without difficulty. If problems are encountered, try the following solutions.

Where the solutions are listed by number, try each solution in turn, starting with number 1, until the problem is resolved.

| Symptom  | Solution  |
|--|---|
| System fails to interpret the command correctly.   | 1. Ensure that the command is valid.  |
|  | 2. Ensure that the command is spoken after the tone.  |
|  | 3. Speak clearly without pausing between words and at level appropriate to the ambient noise level in the vehicle.  |
|  | 4. Ensure that the ambient noise level is not excessive (for example, windows open or defroster on).<br><b>NOTE:</b><br>If it is too noisy to use the phone, it is likely that the voice commands will not be recognized.                                 |
|  | 5. If more than one command was said at a time, try saying the commands separately.   |
|  | 6. If the system consistently fails to recognize commands, the voice training procedure should be carried out to improve the recognition response for the speaker. See "Speaker adaptation (SA) mode" earlier in this section. Refer to "OWNER'S MANUAL". |
| The system consistently selects the wrong voicetag | 1. Ensure that the phone book entry name requested matches what was originally stored. This can be confirmed by using the "List Names" command.   |
|  | 2. Replace one of the names being confused with a new name.   |

### RELATED TO AUDIO

- The majority of the audio malfunctions are the result of outside causes (bad CD/cassette, electromagnetic interference, etc.). Check the symptoms below to diagnose the malfunction.
- The vehicle itself can be a source of noise if noise prevention parts or electrical equipment is malfunctioning. Check if noise is caused and/or changed by engine speed, ignition switch turned to each position, and operation of each piece of electrical equipment, and then determine the cause.

**NOTE:**

- CD-R is not guaranteed to play because they can contain compressed audio (MP3, WMA) or could be incorrectly mastered by the customer on a computer.
- Check if the CDs carry the Compact Disc Logo. If not, the disc is not mastered to the "red book" Compact Disc Standard and may not play.



# NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

| Symptom  | Cause and Counter measure   |
|--|---|
| Cannot play  | Check if the CD/CF was inserted correctly.  |
|  | Check if the CD/CF is scratched or dirty.   |
|  | Check if there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.  |
|  | If there is a temperature increase error, the player will play correctly after it returns to the normal temperature.  |
|  | If there is a mixture of music CD files (CD-DA data) and MP3/WMA files on a CD, only the music CD files (CD-DA data) will be played.  |
|  | Files with extensions other than “.MP3”, “.WMA”, “.mp3”, or “.wma” cannot be played. In addition, the character codes and number of characters for folder names and file names should be in compliance with the specifications. |
|  | Check if the disc or the file is generated in an irregular format, This may occur depending on the variation or the setting of MP3/WMA writing applications or other text editing applications.                                 |
|  | Check if the finalization process, such as session close and disc close, is done for the disc.  |
| Poor sound quality   | Check if the CD/CF is scratched or dirty.   |
|  | Check if the CD/CF is protected by copyright.   |
| It takes a relatively long time before the music starts playing. | If there are many folder or file levels on the MP3/WMA CD/CF, or if it is a multisession disc, some time may be required before the music starts playing.   |
| Music cuts off or skips  | The writing software and hardware combination might not match, or the writing speed, writing depth, writing width might not match the specifications. Try using the slowest writing speed.                                      |
| Skipping with high bit rate files                                | Skipping may occur with large quantities if data such as for high bit rate data.  |
| Move immediately to the next song when playing                   | When a non-MP3/WMA file has been given an extension of “.MP3”, “.WMA”, “.mp3”, or “.wma”, or when play is prohibited by copyright protection, the player will skip to the next song.  |
| The songs do not play back in the desired order.                 | The playback order is the order in which the files were written by the software, so the files might not play in the desired order.  |

Noise resulting from variations in field strength, such as fading noise and multi-path noise, or external noise from trains and other sources, is not a malfunction.

**NOTE:**

- Fading noise: This noise occurs because of variations in the field strength in a narrow range due to mountains or buildings blocking the signal.
- Multi-path noise: This noise results from a time difference between the broadcast waves directly from the station arriving at the antenna and the waves reflected by mountains or buildings.

## RELATED TO VEHICLE ICON

| Symptom  | Possible cause   | Possible solution   |
|--|--|---|
| Names of roads differ between Plan View and Birdview™.   | This is because the quantity of the displayed information is reduced so that the screen does not become too crowded. There is also a chance that names of the roads may be displayed multiple times, and the names appearing on the screen may be different because of a processing procedure. | This is not a malfunction.  |
| The vehicle icon is not displayed in the correct position.                                       | The vehicle was transported after the ignition switch was pressed off, for example, by a ferry or car transporter.   | Drive the vehicle for a while on a road where GPS signals can be received.  |
|  | The position and direction of the vehicle icon may be incorrect depending on the driving environments and the levels of positioning accuracy of the navigation system.   | This is not a malfunction. Drive the vehicle for a while to automatically correct the position and direction of the vehicle icon. |
| When the vehicle is traveling on a new road, the vehicle icon is located on another road nearby. | Because the new road is not stored in the map data, the system automatically places the vehicle icon on the nearest road available.  | Updated road information will be included in the next version of the map data.  |

## NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

| Symptom  | Possible cause   | Possible solution  |
|--|--|--|
| The screen does not switch to the night screen even after turning on the headlights. | The daytime screen was set the last time the headlights were turned on.  | Set the screen to the night screen mode using <Day/Night> when you turn on the headlights.   |
| The map does not scroll even when the vehicle is moving.                             | The current location map screen is not displayed.  | Press <MAP>.   |
| The vehicle icon is not displayed.   | The current location map screen is not displayed.  | Press <MAP>.   |
| The location of the vehicle icon is misaligned from the actual position.             | When using tire chains or replacing the tires, speed calculations based on the speed sensor may be incorrect.  | Drive the vehicle for a while (at approximately 19 MPH for about 30 minutes) to automatically correct the vehicle icon position. If this does not correct the vehicle icon position, contact an INFINITI dealer. |
|  | The map data has a mistake or is incomplete (the vehicle icon position is always misaligned in the same area). | Updated road information will be included in the next version of the map data.   |

### RELATED TO ROUTE CALCULATION AND VISUAL GUIDANCE

| Symptom   | Possible cause   | Possible solution   |
|---|--|---|
| Waypoints are not included in the auto reroute calculation.   | Waypoints that you have already passed are not included in the auto reroute calculation.   | If you want to go to that waypoint again, you need to edit the route.   |
| Route information is not displayed.   | Route calculation has not yet been performed.  | Set the destination and perform route calculation.  |
|   | You are not driving on the suggested route.  | Drive on the suggested route.   |
|   | Route guidance is set to off.  | Turn on route guidance.   |
|   | Route information is not provided for certain types of roads (roads displayed in gray).  | This is not a malfunction.  |
| The auto reroute calculation (or detour calculation) suggests the same route as the one previously suggested. | Route calculations took priority conditions into consideration, but the same route was calculated.   | This is not a malfunction.  |
| A waypoint cannot be added.   | Five waypoints are already set on the route, including ones that you have already passed.  | A maximum of 5 waypoints can be set on the route. If you want to go to 6 or more waypoints, perform route calculations multiple times as necessary. |
| The suggested route is not displayed.   | Roads near the destination cannot be calculated.   | Reset the destination to a main or ordinary road, and recalculate the route.  |
|   | The starting point and destination are too close.  | Set a more distant destination.   |
|   | The starting point and destination are too far away.   | Divide your trip by selecting one or two intermediate destinations, and perform route calculations multiple times.                                  |
|   | There are time restricted roads (by the day of the week, by time) near the current vehicle location or destination.  | Set [Use Time Restricted Roads] to off.   |
| The part of the route that you have already passed is deleted.  | A route is managed by sections between waypoints. If you passed the first waypoint, the section between the starting point and the waypoint is deleted. (It may not be deleted depending on the area.) | This is not a malfunction.  |
| An indirect route is suggested.   | If there are restrictions (such as one-way streets) on roads close to the starting point or destination, the system may suggest an indirect route.   | Adjust the location of the starting of the starting point or destination.   |
|   | The system may suggest an indirect route because route calculation does not take into consideration some areas such as narrow streets (gray roads.)  | Reset the destination to a main or ordinary road, and recalculate the route.  |

## NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

| Symptom  | Possible cause  | Possible solution  |
|--|---|--|
| The landmark information does not correspond to the actual information.                        | This may be caused by insufficient or incorrect map data.         | Updated information will be included in the next version of the data.                            |
| The suggested route does not exactly connect to the starting point, waypoints, or destination. | There is no data for route calculation closes to these locations. | Set the starting point, waypoints and destination on a main road, and perform route calculation. |

### RELATED TO VOICE GUIDANCE

| Symptom   | Possible cause   | Possible solution   |
|---|--|---|
| Voice guidance is not available                                   | Voice guidance is only available at certain intersections marked with? In some case, voice guidance is not available even when the vehicle should make a turn. | This is not a malfunction.  |
|   | The vehicle has deviated from the suggested route.   | Go back to the suggested route or request route calculation again |
|   | Voice guide is set to off.   | Turn on voice guidance.   |
|   | Route guidance is set to off.  | Turn on voice guidance.   |
| The guidance contact does not correspond to the actual condition. | The contact of voice guidance may vary, depending on the types of intersections at which turn are made.  | Follow all traffic rules and regulations.                         |

### RELATED TO TRAFFIC INFORMATION

| Symptom   | Possible cause   | Possible solution  |
|---|--|--|
| The traffic information is not displayed  | The traffic information is not set to on.  | Set the traffic information to on.   |
|   | You are in an area where traffic information is not available  | Scroll to an area where traffic information is available   |
|   | You have not subscribed to XM NavTraffic or, your subscription to XM NavTraffic has expired.   | Check your subscription status of XM NavTraffic.   |
|   | The map scale is set at a level where the display of icons is impossible.  | Check that the map scale is set at a level in which the display of icons is possible.  |
| With the automatic detour route search ON, no detour route is set to avoid congested areas.                   | There is no faster route compared to the current route, based on the road network and traffic information.                                   | The automatic detour search is not intended for avoiding traffic jams. It searches for the fastest route taking into consideration such things as traffic jams.  |
| The route does not avoid road section with traffic information stating it is closed due to road construction. | The navigation system is designed not to avoid this event because the actual period of closure may differ from the declared roadwork period. | Observe the actual road condition and follow the instructions on road for detour when necessary. If the road closure is for certain, use detour function and set the detour distance to avoid the closed road section. |
| Traffic information displayed differs from information from other media (e.g. radio).                         | Other media may use different information sources.   | Observe the actual road conditions and regulations. Always observe safe driving practices and follow all traffic regulations.  |

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## PRECAUTION

### PRECAUTIONS

#### Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000004238839

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

**WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

#### PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

**WARNING:**

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

#### Precaution for Trouble Diagnosis

INFOID:000000004238840

#### AV COMMUNICATION SYSTEM

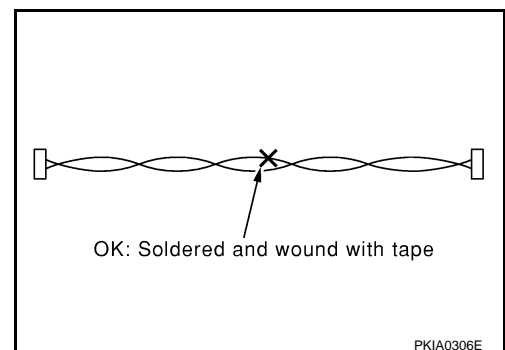
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

#### Precaution for Harness Repair

INFOID:000000004238841

#### AV COMMUNICATION SYSTEM

- Solder the repaired parts, and wrap with tape. [Frays of twisted line must be within 110 mm (4.33 in).]

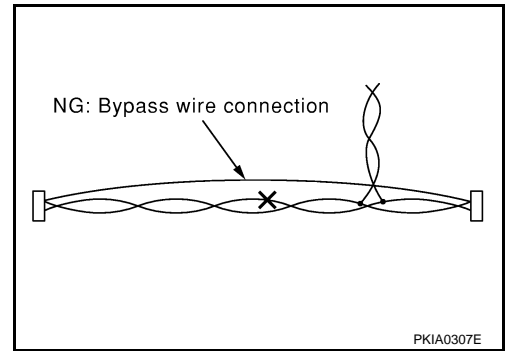


# PRECAUTIONS

## < PRECAUTION >

## [BOSE AUDIO WITH NAVIGATION]

- Do not perform bypass wire connections for the repair parts. (The spliced wire will become separated and the characteristics of twisted line will be lost.)



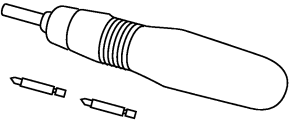
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PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000004238842

| Tool name  | Description   |
|--|---|
| <p>Power tool</p>  <p>PBIC0191E</p> | <p>Loosening bolts and nuts</p> |

# AV CONTROL UNIT

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## REMOVAL AND INSTALLATION

### AV CONTROL UNIT

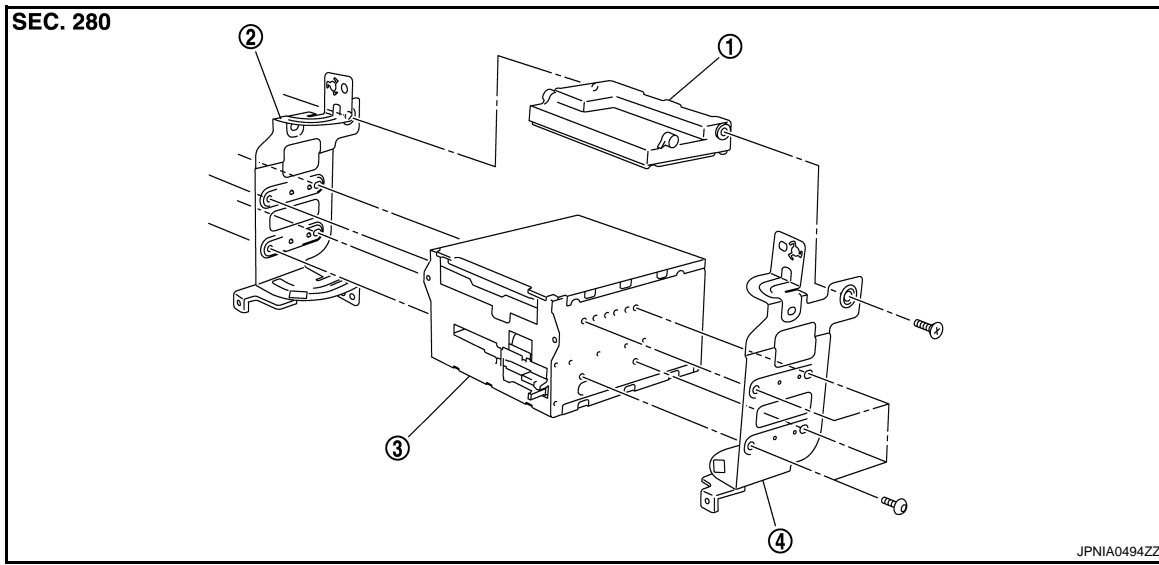
#### Exploded View

INFOID:000000004238843

#### REMOVAL

Refer to [IP-11](#), "Exploded View".

#### DISASSEMBLY



1. Unified meter and A/C amp.
2. Bracket LH
3. AV control unit
4. Bracket RH

#### Removal and Installation

INFOID:000000004238844

#### REMOVAL

1. Remove display unit.
2. Remove AV control unit with a unified meter and A/C amp. as a single unit from the body.
3. Remove bracket screws, and then remove AV control unit.

#### INSTALLATION

Installation is the reverse order of removal.

#### **CAUTION:**

**Since AV control unit connector and unified meter and A/C amp. connector have the same form, be careful not to insert them wrongly.**

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AV

## DISPLAY UNIT

### Exploded View

INFOID:000000004238845

Refer to [IP-11, "Exploded View"](#).

### Removal and Installation

INFOID:000000004238846

#### REMOVAL

1. Remove cluster lid D. Refer to [IP-11, "Exploded View"](#).
2. Remove display unit with bracket as a single unit.

#### INSTALLATION

Installation is the reverse order of removal.



# FRONT DOOR SQUAWKER

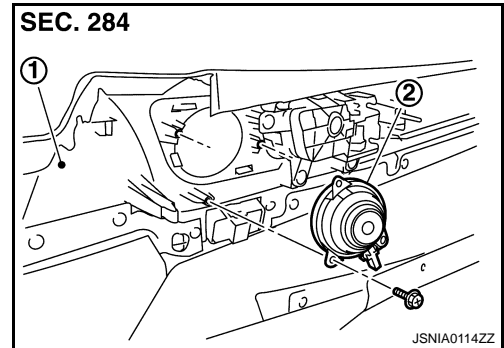
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## FRONT DOOR SQUAWKER

### Exploded View

INFOID:000000004238847



1. Door finisher
2. Front door squawker

### Removal and Installation

INFOID:000000004238848

#### REMOVAL

1. Remove front door finisher. Refer to [INT-11, "Exploded View"](#).
2. Remove front door squawker from door finisher.

#### INSTALLATION

Installation is the reverse order of removal.

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## FRONT DOOR WOOFER

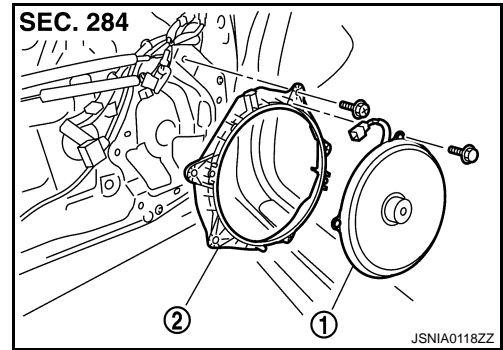
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

### FRONT DOOR WOOFER

#### Exploded View

INFOID:000000004238849



1. Front door woofer
2. Woofer bracket

#### Removal and Installation

INFOID:000000004238850

##### REMOVAL

1. Remove front door finisher. Refer to [INT-11, "Exploded View"](#).
2. Remove front door woofer from woofer bracket.

##### INSTALLATION

Installation is the reverse order of removal.

# REAR DOOR SPEAKER

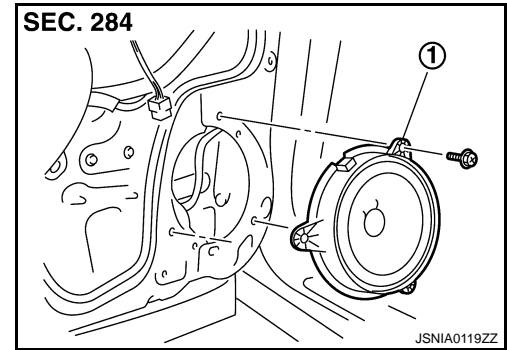
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## REAR DOOR SPEAKER

### Exploded View

INFOID:000000004238851



1. Rear door speaker

### Removal and Installation

INFOID:000000004238852

#### REMOVAL

1. Remove rear door finisher. Refer to [INT-11. "Exploded View"](#).
2. Remove rear door speaker from rear door.

#### INSTALLATION

Installation is the reverse order of removal.

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AV

# TWEETER

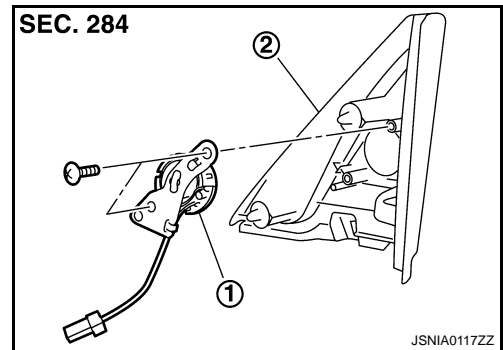
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## TWEETER

### Exploded View

INFOID:000000004238853



1. Tweeter
2. Corner cover inner

### Removal and Installation

INFOID:000000004238854

#### REMOVAL

1. Remove front door finisher, and then remove corner cover inner. Refer to [INT-11, "Exploded View"](#).
2. Remove tweeter from corner cover inner.

#### INSTALLATION

Installation is the reverse order of removal.

# CENTER SPEAKER

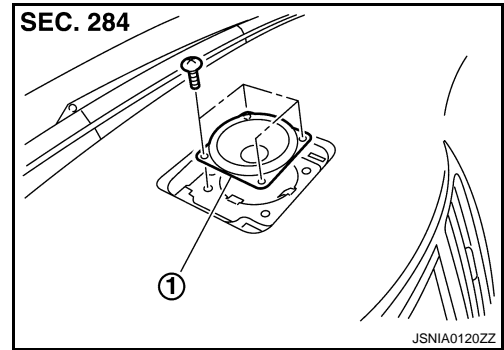
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## CENTER SPEAKER

### Exploded View

INFOID:000000004238855



1. Center speaker

### Removal and Installation

INFOID:000000004238856

#### REMOVAL

1. Remove upper grille, and then remove center speaker. Refer to [IP-11, "Exploded View"](#).

#### INSTALLATION

Installation is the reverse order of removal.

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## REAR WOOFER

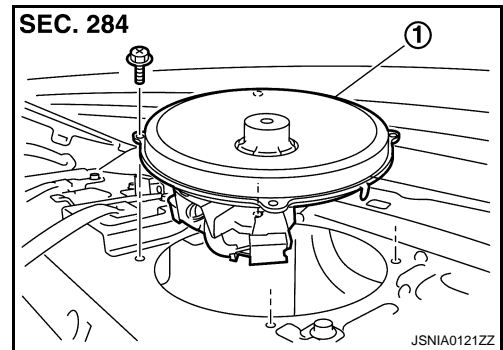
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

### REAR WOOFER

Exploded View

INFOID:000000004238857



1. Rear woofer

### Removal and Installation

INFOID:000000004238858

#### REMOVAL

1. Remove rear parcel shelf finisher. Refer to [INT-18. "Exploded View"](#).
2. Remove rear woofer from rear parcel shelf.

#### INSTALLATION

Installation is the reverse order of removal.

# BOSE AMP.

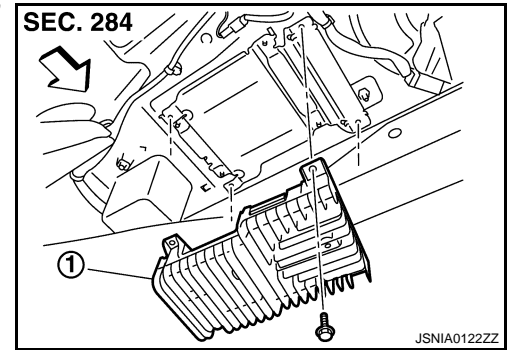
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AMP.

### Exploded View

INFOID:000000004238859



1. BOSE amp.

←: Vehicle front

### Removal and Installation

INFOID:000000004238860

#### REMOVAL

1. Remove trunk front finisher. Refer to [INT-28. "Exploded View"](#).
2. Remove BOSE amp. from rear parcel shelf.

#### INSTALLATION

Installation is the reverse order of removal.

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## ANTENNA AMP.

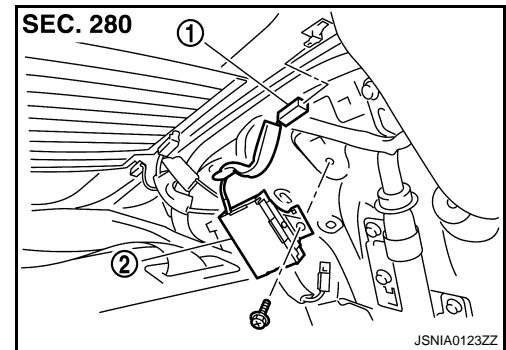
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

### ANTENNA AMP.

#### Exploded View

INFOID:000000004238861



1. AM-FM main connector
2. Antenna amp.

#### Removal and Installation

INFOID:000000004238862

##### REMOVAL

1. Remove rear pillar finisher LH. Refer to [INT-14. "Exploded View"](#).
2. Remove antenna amp. from rear pillar LH.

##### INSTALLATION

Installation is the reverse order of removal.



# SATELLITE RADIO ANTENNA

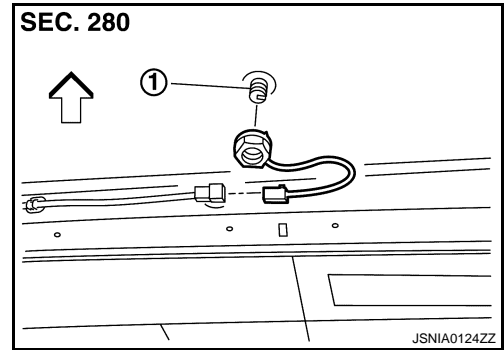
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## SATELLITE RADIO ANTENNA

### Exploded View

INFOID:000000004238863



1. Satellite radio antenna
- ←: Vehicle front

### Removal and Installation

INFOID:000000004238864

#### REMOVAL

1. Remove head lining assembly (rear) to secure work space between vehicle and headlining. Refer to [INT-22. "NORMAL ROOF : Exploded View"](#) (normal roof models) or [INT-25. "SUNROOF : Exploded View"](#) (sunroof models).
2. Remove nut, and then remove satellite radio antenna from roof panel.

#### INSTALLATION

Installation is the reverse order of removal.

**Satellite radio antenna mounting nut**  : 6.5 N-m (0.66 kg-m, 58 in-lb)

#### **CAUTION:**

**Be careful about tightening torque. Antenna sensitivity becomes poor, and when it is excessive, roof panel may be deformed, when satellite radio antenna mounting nut tightening torque is loose.**

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AV

# MULTIFUNCTION SWITCH

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## MULTIFUNCTION SWITCH

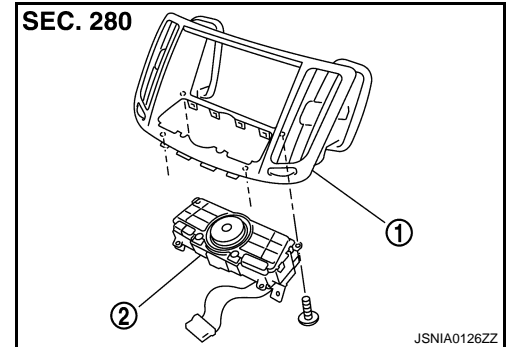
### Exploded View

INFOID:000000004238865

#### REMOVAL

Refer to [IP-11, "Exploded View"](#).

#### DISASSEMBLY



1. Center ventilator grille
2. Multifunction switch

### Removal and Installation

INFOID:000000004238866

#### REMOVAL

1. Remove cluster lid D. Refer to [IP-11, "Exploded View"](#).
2. Remove multi function switch with center ventilator grille as a single unit.
3. Remove multi function switch from center ventilator.

#### INSTALLATION

Installation is the reverse order of removal.

# PRESET SWITCH

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## PRESET SWITCH

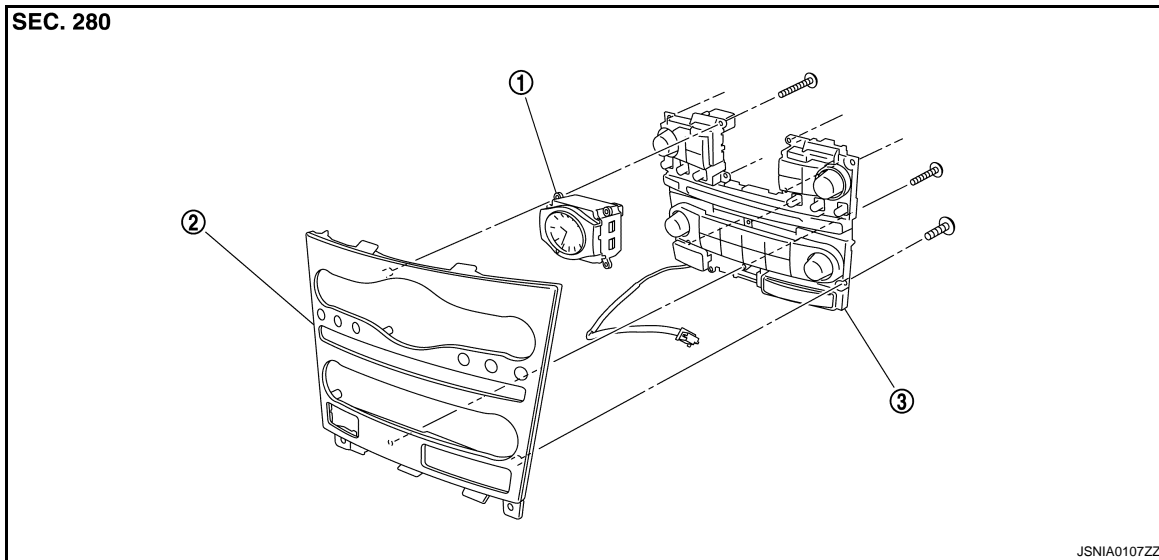
### Exploded View

INFOID:000000004238867

#### REMOVAL

Refer to [IP-11, "Exploded View"](#).

#### DISASSEMBLY



1. Clock

2. Cluster lid C

3. Preset switch

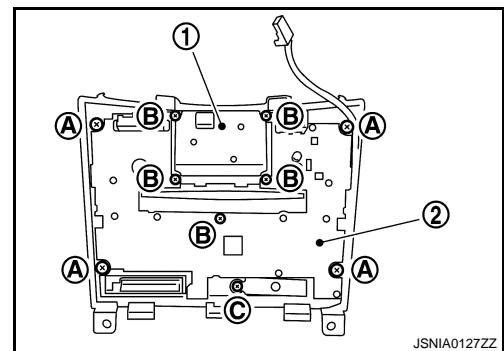
### Removal and Installation

INFOID:000000004238868

#### REMOVAL

1. Remove cluster lid C. Refer to [IP-11, "Exploded View"](#).
2. Remove preset switch screws (A), (B), and (C), and then remove preset switch (2) from cluster lid C.

1. Clock



#### INSTALLATION

Installation is the reverse order of removal.

#### NOTE:

When installing preset switch, do not allow the print wire that connects preset switch and multifunction switch to get caught in between AV control unit and preset switch.

## STEERING SWITCH

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

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### STEERING SWITCH

#### Exploded View

INFOID:000000004238869

Refer to [ST-17, "Exploded View"](#).

#### Removal and Installation

INFOID:000000004238870

#### REMOVAL

Refer to [ST-17, "Removal and Installation"](#).

#### INSTALLATION

Installation is the reverse order of removal.

# IPOD ADAPTER

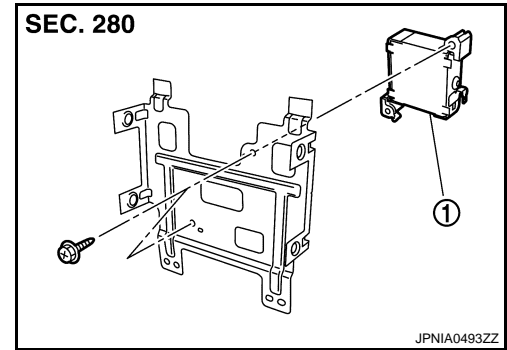
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## IPOD ADAPTER

### Exploded View

INFOID:000000004238871



1. iPod adapter

### Removal and Installation

INFOID:000000004238872

#### REMOVAL

1. Remove display assy. Refer to [AV-576, "Removal and Installation"](#).
2. Remove display from display bracket.
3. Remove iPod adapter from display bracket.

#### INSTALLATION

Install in the reverse order of removal.

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AV

# IPOD CONNECTOR

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## IPOD CONNECTOR

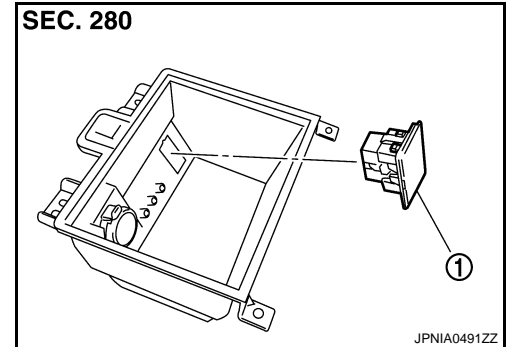
### Exploded View

INFOID:000000004238873

### REMOVAL

Refer to [IP-23, "Exploded View"](#).

### DISASSEMBLY



1. iPod connector

### Removal and Installation

INFOID:000000004238874

### REMOVAL

1. Remove center console. (M/T models) Refer to [IP-23, "Exploded View"](#).  
Remove center console. (A/T models) Refer to [IP-23, "Exploded View"](#).
2. Press the pawl from the back of center console to remove iPod connector.

### INSTALLATION

Install in the reverse order of removal.

# AUXILIARY INPUT JACKS

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## AUXILIARY INPUT JACKS

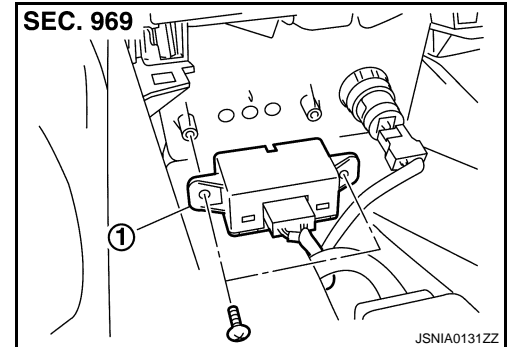
### Exploded View

INFOID:000000004238877

#### REMOVAL

Refer to [IP-23, "Exploded View"](#).

#### DISASSEMBLY



1. Auxiliary input jacks

### Removal and Installation

INFOID:000000004238878

#### REMOVAL

1. Remove center console. (M/T models) Refer to [IP-23, "Exploded View"](#).  
Remove center console cup. (A/T models) Refer to [IP-23, "Exploded View"](#).
2. Remove auxiliary input jacks from center console. (M/T models)  
Remove auxiliary input jacks from center console cup. (A/T models)

#### INSTALLATION

Installation is the reverse order of removal.

A  
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AV

## MICROPHONE

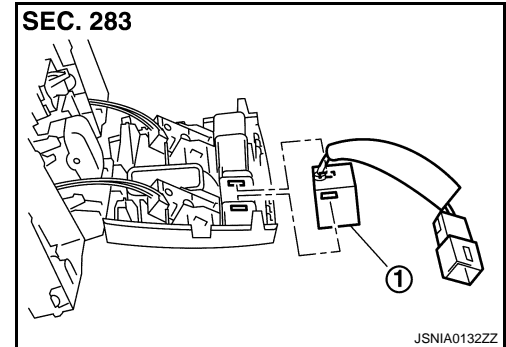
### Exploded View

INFOID:000000004238879

#### REMOVAL

Refer to [INL-100, "Exploded View"](#).

#### DISASSEMBLY



1. Microphone

### Removal and Installation

INFOID:000000004238880

#### REMOVAL

1. Remove map lamp. Refer to [INL-100, "Exploded View"](#).
2. Remove microphone from map lamp.

#### INSTALLATION

Installation is the reverse order of removal.





# GPS ANTENNA

< REMOVAL AND INSTALLATION >

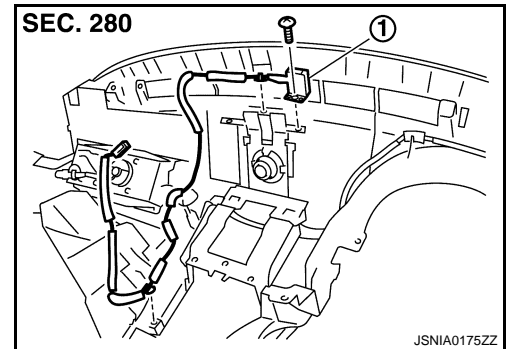
[BOSE AUDIO WITH NAVIGATION]

## Removal and Installation

INFOID:000000004238883

### REMOVAL

1. Remove instrument panel. Refer to [IP-11, "Exploded View"](#).
2. Remove GPS antenna (1) from instrument panel.



### INSTALLATION

Installation is the reverse order of removal.

# CAMERA CONTROL UNIT

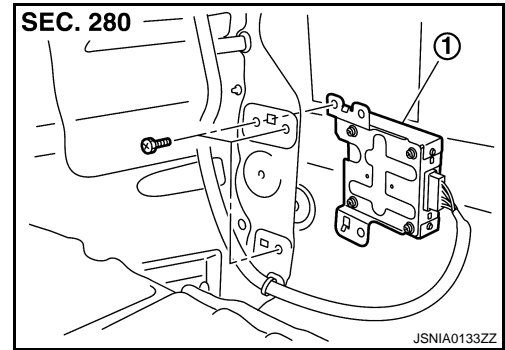
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## CAMERA CONTROL UNIT

### Exploded View

INFOID:000000004238884



1. Camera control unit

### Removal and Installation

INFOID:000000004238885

#### REMOVAL

1. Remove trunk side finisher (RH), and then remove camera control unit. Refer to [INT-28. "Exploded View"](#).

#### INSTALLATION

Installation is the reverse order of removal.

### Adjustment

INFOID:000000004238886

#### ADJUSTMENT

There may be a misalignment of possible route line center position of rear view monitor after removing camera control unit. Therefore, correct neutral position with the following procedure.

1. Steer the steering wheel to the leftmost and rightmost ends.
2. Drive vehicle at 30 km/h (18.6 MPH) min. speed at least 100 m (328.1 ft).

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AV

# REAR VIEW CAMERA

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## REAR VIEW CAMERA

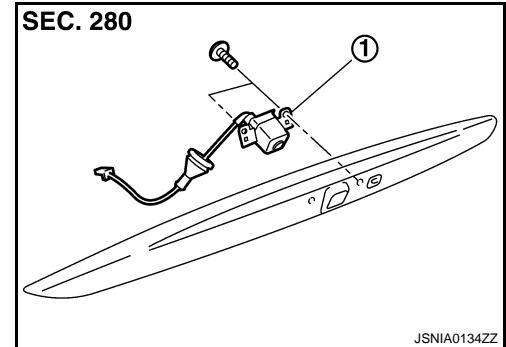
### Exploded View

INFOID:000000004238887

#### REMOVAL

Refer to [EXT-37, "Exploded View"](#).

#### DISASSEMBLY



1. Rear view camera

### Removal and Installation

INFOID:000000004238888

#### REMOVAL

1. Remove trunk lid finisher outer. Refer to [EXT-37, "Exploded View"](#).
2. Remove rear view camera from trunk lid finisher outer.

#### INSTALLATION

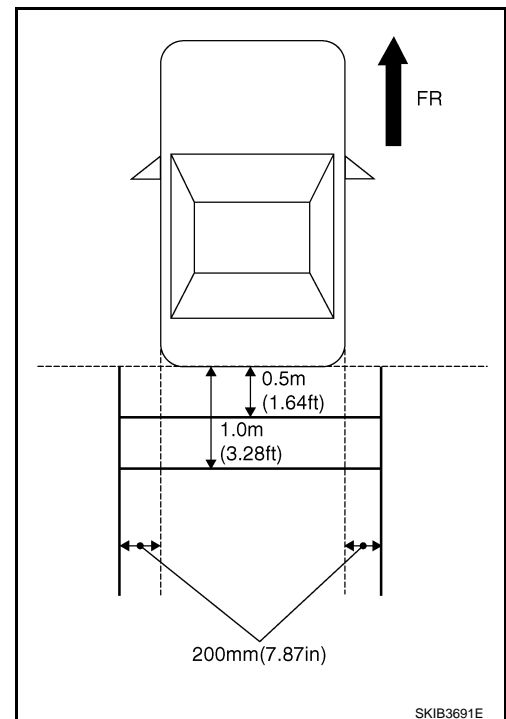
Installation is the reverse order of removal.

### Adjustment

INFOID:000000004238889

Adjust the guide line position if the guide line position is shifted after installing the rear view camera.

1. Draw lines on rearward area of the vehicle passing through the following points: 20 cm (7.87 in) from both sides of the vehicle, and 0.5 m (1.64 ft), 1.0 m (3.28 ft) from the rear end of the bumper.
2. Set into "Adjust offset of rear view camera" mode of Confirmation / Adjustment mode.



## REAR VIEW CAMERA

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

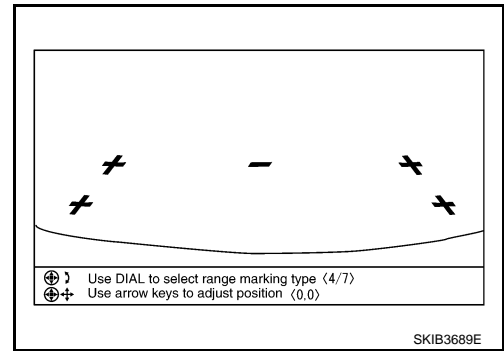
3. Rotate the center dial, and then select the guiding line pattern so that its angle is aligned with the correction line of the rear of the vehicle.

**Selected pattern : 7**

4. Make fine adjustment to the correction line of the rear of the vehicle with up/down/left/right switches so that its position is aligned with the guiding line. Press "OK" switch and record the adjusted guiding line position to the camera control unit.

**Up/Down adjustment range : -20 - 20**

**Left/Right adjustment range : -20 - 20**



### CAUTION:

Never operate other function such as pressing BACK while writing index data.

If Confirmation/Adjustment mode does not function in the above procedure, perform one of the following service to adjust the index again.

- Remove battery for five min. Then reconnect battery.
- Remove camera control unit connector for five min. Then reconnect camera control unit connector.

A  
B  
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H  
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AV

# STEERING ANGLE SENSOR

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## STEERING ANGLE SENSOR

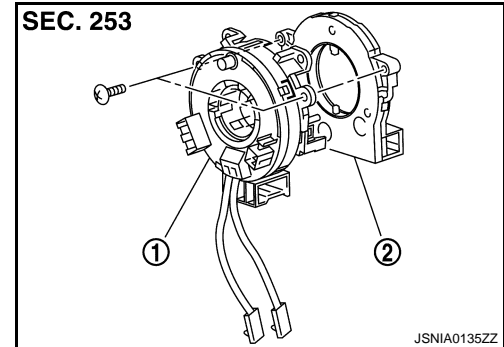
### Exploded View

INFOID:000000004238890

#### REMOVAL

Refer to [SR-15, "Exploded View"](#).

#### DISASSEMBLY



1. Spiral cable
2. Steering angle sensor

### Removal and Installation

INFOID:000000004238891

#### REMOVAL

1. Remove spiral cable.
2. Remove steering angle sensor from spiral cable.

#### INSTALLATION

Installation is the reverse order of removal.

### Adjustment

INFOID:000000004238892

Perform 4WAS front actuator adjustment. Refer to [STC-28, "4WAS FRONT ACTUATOR NEUTRAL POSITION ADJUSTMENT : Description"](#).

# ANTENNA FEEDER (RADIO)

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## ANTENNA FEEDER (RADIO)

### Harness Layout

INFOID:000000004238893

