

**SECTION AV**

**AUDIO, VISUAL & NAVIGATION SYSTEM**

**CONTENTS**

<b>BASE AUDIO</b>	Reference Value .....	21	F
	Wiring Diagram - BASE AUDIO - .....	23	
<b>BASIC INSPECTION</b> .....	<b>SYMPTOM DIAGNOSIS</b> .....	<b>28</b>	<b>G</b>
<b>DIAGNOSIS AND REPAIR WORKFLOW</b> .....	<b>AUDIO SYSTEM</b> .....	<b>28</b>	<b>H</b>
Work Flow .....	Symptom Table .....	28	
<b>SYSTEM DESCRIPTION</b> .....	<b>NORMAL OPERATING CONDITION</b> .....	<b>29</b>	<b>I</b>
<b>AUDIO SYSTEM</b> .....	Description .....	29	
System Diagram .....	<b>PRECAUTION</b> .....	<b>30</b>	<b>J</b>
System Description .....	<b>PRECAUTIONS</b> .....	<b>30</b>	<b>K</b>
Component Parts Location .....	<b>EXCEPT FOR MEXICO</b> .....	<b>30</b>	<b>L</b>
Component Description .....	EXCEPT FOR MEXICO : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" .....	30	
<b>DIAGNOSIS SYSTEM (AUDIO UNIT)</b> .....	EXCEPT FOR MEXICO : Precaution for Battery Service .....	30	<b>M</b>
Diagnosis Description .....	<b>FOR MEXICO</b> .....	<b>30</b>	<b>AV</b>
<b>DTC/CIRCUIT DIAGNOSIS</b> .....	FOR MEXICO : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" .....	30	
<b>POWER SUPPLY AND GROUND CIRCUIT</b> .....	FOR MEXICO : Precaution for Battery Service .....	31	
<b>AUDIO UNIT</b> .....	<b>PREPARATION</b> .....	<b>32</b>	<b>O</b>
AUDIO UNIT : Diagnosis Procedure .....	<b>PREPARATION</b> .....	<b>32</b>	<b>P</b>
<b>STEERING SWITCH SIGNAL A CIRCUIT</b> .....	Commercial Service Tools .....	32	
Description .....	<b>REMOVAL AND INSTALLATION</b> .....	<b>33</b>	
Diagnosis Procedure .....	<b>AUDIO UNIT</b> .....	<b>33</b>	
Component Inspection .....	Exploded View .....	33	
<b>STEERING SWITCH SIGNAL B CIRCUIT</b> .....	Removal and Installation .....	33	
Description .....	<b>FRONT DOOR SPEAKER</b> .....	<b>34</b>	
Diagnosis Procedure .....	Exploded View .....	34	
Component Inspection .....	Removal and Installation .....	34	
<b>STEERING SWITCH SIGNAL GND CIRCUIT</b> .....			
Description .....			
Diagnosis Procedure .....			
Component Inspection .....			
<b>ECU DIAGNOSIS INFORMATION</b> .....			
<b>AUDIO UNIT</b> .....			

<b>TWEETER</b> .....	<b>35</b>	<b>TEL ADAPTER UNIT</b> .....	<b>58</b>
Exploded View .....	35	TEL ADAPTER UNIT : Diagnosis Procedure .....	58
Removal and Installation .....	35	<b>STEERING SWITCH SIGNAL A CIRCUIT</b>	
<b>STEERING SWITCH</b> .....	<b>36</b>	<b>(STEERING SWITCH TO TEL ADAPTER</b>	
Exploded View .....	36	<b>UNIT)</b> .....	<b>60</b>
Removal and Installation .....	36	Description .....	60
<b>ANTENNA AMP.</b> .....	<b>37</b>	Diagnosis Procedure .....	60
Exploded View .....	37	Component Inspection .....	61
Removal and Installation .....	37	<b>STEERING SWITCH SIGNAL B CIRCUIT</b>	
<b>ANTENNA BASE</b> .....	<b>38</b>	<b>(STEERING SWITCH TO TEL ADAPTER</b>	
Exploded View .....	38	<b>UNIT)</b> .....	<b>62</b>
Removal and Installation .....	38	Description .....	62
<b>ANTENNA FEEDER</b> .....	<b>39</b>	Diagnosis Procedure .....	62
<b>COUPE</b> .....	<b>39</b>	Component Inspection .....	63
COUPE : Feeder Layout .....	39	<b>STEERING SWITCH SIGNAL GND CIRCUIT</b>	
<b>ROADSTER</b> .....	<b>39</b>	<b>(STEERING SWITCH TO TEL ADAPTER</b>	
ROADSTER : Feeder Layout .....	40	<b>UNIT)</b> .....	<b>64</b>
<b>BOSE AUDIO WITHOUT NAVIGATION</b>		Description .....	64
<b>BASIC INSPECTION</b> .....	<b>41</b>	Diagnosis Procedure .....	64
<b>DIAGNOSIS AND REPAIR WORKFLOW</b> .....	<b>41</b>	Component Inspection .....	65
Work Flow .....	41	<b>STEERING SWITCH SIGNAL A CIRCUIT</b>	
<b>SYSTEM DESCRIPTION</b> .....	<b>43</b>	<b>(TEL ADAPTER UNIT TO AUDIO UNIT)</b> .....	<b>66</b>
<b>AUDIO SYSTEM</b> .....	<b>43</b>	Description .....	66
System Diagram .....	43	Diagnosis Procedure .....	66
System Description .....	44	Component Inspection .....	67
Component Parts Location .....	45	<b>STEERING SWITCH SIGNAL B CIRCUIT</b>	
Component Description .....	46	<b>(TEL ADAPTER UNIT TO AUDIO UNIT)</b> .....	<b>68</b>
<b>HANDS-FREE PHONE SYSTEM</b> .....	<b>48</b>	Description .....	68
System Diagram .....	48	Diagnosis Procedure .....	68
System Description .....	49	Component Inspection .....	69
Component Parts Location .....	50	<b>STEERING SWITCH SIGNAL GND CIRCUIT</b>	
Component Description .....	51	<b>(TEL ADAPTER UNIT TO AUDIO UNIT)</b> .....	<b>70</b>
<b>DIAGNOSIS SYSTEM (AUDIO UNIT)</b> .....	<b>53</b>	Description .....	70
Diagnosis Description .....	53	Diagnosis Procedure .....	70
<b>DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)</b> ..	<b>55</b>	Component Inspection .....	70
Diagnosis Description .....	55	<b>STEERING SWITCH SIGNAL A CIRCUIT</b> .....	<b>72</b>
<b>DTC/CIRCUIT DIAGNOSIS</b> .....	<b>57</b>	Description .....	72
<b>POWER SUPPLY AND GROUND CIRCUIT</b> ....	<b>57</b>	Diagnosis Procedure .....	72
<b>AUDIO UNIT</b> .....	<b>57</b>	Component Inspection .....	73
AUDIO UNIT : Diagnosis Procedure .....	57	<b>STEERING SWITCH SIGNAL B CIRCUIT</b> .....	<b>74</b>
<b>BOSE AMP.</b> .....	<b>57</b>	Description .....	74
BOSE AMP. : Diagnosis Procedure .....	57	Diagnosis Procedure .....	74
<b>SATELLITE RADIO TUNER</b> .....	<b>58</b>	Component Inspection .....	75
SATELLITE RADIO TUNER : Diagnosis Proce-		<b>STEERING SWITCH SIGNAL GND CIRCUIT</b> ...	<b>76</b>
dure .....	58	Description .....	76
		Diagnosis Procedure .....	76
		Component Inspection .....	77
		<b>COMMUNICATION SIGNAL CIRCUIT</b> .....	<b>78</b>
		Description .....	78
		Diagnosis Procedure .....	78

<b>REQUEST SIGNAL CIRCUIT (SAT TO AUDIO)</b> .....	<b>80</b>	<b>NORMAL OPERATING CONDITION</b> .....	<b>182</b>	A
Description .....	80	Description .....	182	
Diagnosis Procedure .....	80	<b>PRECAUTION</b> .....	<b>183</b>	B
<b>BOSE AMP. ON SIGNAL CIRCUIT</b> .....	<b>82</b>	<b>PRECAUTIONS</b> .....	<b>183</b>	B
Description .....	82	<b>EXCEPT FOR MEXICO</b> .....	<b>183</b>	C
Diagnosis Procedure .....	82	EXCEPT FOR MEXICO : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" .....	183	
<b>WOOFER AMP. ON SIGNAL CIRCUIT</b> .....	<b>83</b>	EXCEPT FOR MEXICO : Precaution for Battery Service .....	183	D
Description .....	83	EXCEPT FOR MEXICO : Precaution for Harness Repair .....	183	E
Diagnosis Procedure .....	83	<b>FOR MEXICO</b> .....	<b>184</b>	
<b>MICROPHONE SIGNAL CIRCUIT</b> .....	<b>84</b>	FOR MEXICO : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" .....	184	F
Description .....	84	FOR MEXICO : Precaution for Battery Service .....	184	
Diagnosis Procedure .....	84	FOR MEXICO : Precaution for Harness Repair .....	184	G
<b>TELEPHONE ON SIGNAL CIRCUIT</b> .....	<b>86</b>	<b>PREPARATION</b> .....	<b>186</b>	
Description .....	86	<b>PREPARATION</b> .....	<b>186</b>	H
Diagnosis Procedure .....	86	Commercial Service Tools .....	186	
<b>ECU DIAGNOSIS INFORMATION</b> .....	<b>87</b>	<b>REMOVAL AND INSTALLATION</b> .....	<b>187</b>	I
<b>AUDIO UNIT</b> .....	<b>87</b>	<b>AUDIO UNIT</b> .....	<b>187</b>	J
<b>EXCEPT FOR MEXICO</b> .....	<b>87</b>	Exploded View .....	187	
EXCEPT FOR MEXICO : Reference Value .....	87	Removal and Installation .....	187	K
<b>FOR MEXICO</b> .....	<b>90</b>	<b>FRONT DOOR SPEAKER</b> .....	<b>188</b>	
FOR MEXICO : Reference Value .....	90	Exploded View .....	188	L
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM - .....	93	Removal and Installation .....	188	
<b>BOSE AMP.</b> .....	<b>108</b>	<b>TWEETER</b> .....	<b>189</b>	M
<b>COUPE</b> .....	<b>108</b>	Exploded View .....	189	
COUPE : Reference Value .....	108	Removal and Installation .....	189	
COUPE : Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM - .....	111	<b>REAR SPEAKER</b> .....	<b>190</b>	
<b>ROADSTER</b> .....	<b>125</b>	Exploded View .....	190	
ROADSTER : Reference Value .....	126	Removal and Installation .....	190	
ROADSTER : Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM - .....	129	<b>WOOFER</b> .....	<b>191</b>	AV
<b>SATELLITE RADIO TUNER</b> .....	<b>144</b>	Exploded View .....	191	
Reference Value .....	144	Removal and Installation .....	191	
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM - .....	146	<b>REAR WOOFER</b> .....	<b>192</b>	O
<b>TEL ADAPTER UNIT</b> .....	<b>161</b>	Removal and Installation .....	192	
Reference Value .....	161	<b>BOSE AMP.</b> .....	<b>193</b>	P
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM - .....	164	<b>COUPE</b> .....	<b>193</b>	
<b>SYMPTOM DIAGNOSIS</b> .....	<b>179</b>	COUPE : Exploded View .....	193	
<b>AUDIO SYSTEM SYMPTOMS</b> .....	<b>179</b>	COUPE : Removal and Installation .....	193	
Symptom Table .....	179	<b>ROADSTER</b> .....	<b>193</b>	
<b>HANS-FREE PHONE SYMPTOMS</b> .....	<b>180</b>	ROADSTER : Removal and Installation .....	193	
Symptom Table .....	180	<b>ANTENNA AMP.</b> .....	<b>194</b>	

Exploded View .....	194	Commercial Service Tools .....	207
Removal and Installation .....	194	<b>SYSTEM DESCRIPTION .....</b>	<b>208</b>
<b>ANTENNA BASE .....</b>	<b>195</b>	<b>COMPONENT PARTS .....</b>	<b>208</b>
Exploded View .....	195	Component Parts Location .....	208
Removal and Installation .....	195	Component Description .....	210
<b>SATELLITE RADIO TUNER .....</b>	<b>196</b>	<b>SYSTEM .....</b>	<b>212</b>
Exploded View .....	196	<b>MULTI AV SYSTEM .....</b>	<b>212</b>
Removal and Installation .....	196	MULTI AV SYSTEM : System Diagram .....	212
<b>SATELLITE RADIO ANTENNA .....</b>	<b>197</b>	MULTI AV SYSTEM : System Description .....	213
Exploded View .....	197	MULTI AV SYSTEM : Fail-Safe .....	218
Removal and Installation .....	197	<b>DIAGNOSIS SYSTEM (AV CONTROL UNIT)..</b>	<b>220</b>
<b>STEERING SWITCH .....</b>	<b>198</b>	Description .....	220
Exploded View .....	198	On Board Diagnosis Function .....	220
Removal and Installation .....	198	CONSULT - III Function (MULTI AV) .....	231
<b>TEL ADAPTER UNIT .....</b>	<b>199</b>	<b>ECU DIAGNOSIS INFORMATION .....</b>	<b>235</b>
Exploded View .....	199	<b>AV CONTROL UNIT .....</b>	<b>235</b>
Removal and Installation .....	199	Reference Value .....	235
<b>MICROPHONE .....</b>	<b>200</b>	Fail-Safe .....	240
Exploded View .....	200	DTC Index .....	241
Removal and Installation .....	200	<b>FRONT DISPLAY UNIT .....</b>	<b>242</b>
<b>ANTENNA FEEDER .....</b>	<b>201</b>	Reference Value .....	242
<b>COUPE .....</b>	<b>201</b>	<b>BOSE AMP. ....</b>	<b>244</b>
COUPE : Feeder Layout .....	201	<b>COUPE .....</b>	<b>244</b>
<b>ROADSTER .....</b>	<b>202</b>	COUPE : Reference Value .....	244
ROADSTER : Feeder Layout .....	203	<b>ROADSTER .....</b>	<b>246</b>
<b>BOSE AUDIO WITH NAVIGATION</b>		ROADSTER : Reference Value .....	246
<b>PRECAUTION .....</b>	<b>204</b>	<b>WIRING DIAGRAM .....</b>	<b>249</b>
<b>PRECAUTIONS .....</b>	<b>204</b>	<b>BOSE AUDIO WITH NAVIGATION SYSTEM..</b>	<b>249</b>
<b>EXCEPT FOR MEXICO .....</b>	<b>204</b>	Wiring Diagram .....	249
EXCEPT FOR MEXICO : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" .....	204	<b>BASIC INSPECTION .....</b>	<b>268</b>
EXCEPT FOR MEXICO : Precaution for Battery Service .....	204	<b>DIAGNOSIS AND REPAIR WORK FLOW .....</b>	<b>268</b>
EXCEPT FOR MEXICO : Precaution for Trouble Diagnosis .....	204	Work Flow .....	268
EXCEPT FOR MEXICO : Precaution for Harness Repair .....	204	<b>INSPECTION AND ADJUSTMENT .....</b>	<b>270</b>
<b>FOR MEXICO .....</b>	<b>205</b>	<b>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT .....</b>	<b>270</b>
FOR MEXICO : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" .....	205	ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description .....	270
FOR MEXICO : Precaution for Battery Service .....	205	ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement ..	270
FOR MEXICO : Precaution for Trouble Diagnosis .....	206	<b>CONFIGURATION (AV CONTROL UNIT) .....</b>	<b>270</b>
FOR MEXICO : Precaution for Harness Repair .....	206	CONFIGURATION (AV CONTROL UNIT) : Description .....	270
<b>PREPARATION .....</b>	<b>207</b>	CONFIGURATION (AV CONTROL UNIT) : Special Repair Requirement .....	271
<b>PREPARATION .....</b>	<b>207</b>		

CONFIGURATION (AV CONTROL UNIT) : Configuration List .....	271	<b>U121D AV CONTROL UNIT .....</b>	<b>288</b>	
		DTC Logic .....	288	A
		Diagnosis Procedure .....	288	
<b>DTC/CIRCUIT DIAGNOSIS .....</b>	<b>272</b>	<b>U121E AV CONTROL UNIT .....</b>	<b>289</b>	B
<b>U1000 CAN COMM CIRCUIT .....</b>	<b>272</b>	DTC Logic .....	289	
Description .....	272	Diagnosis Procedure .....	289	
DTC Logic .....	272	<b>U1225 AV CONTROL UNIT .....</b>	<b>290</b>	C
Diagnosis Procedure .....	272	DTC Logic .....	290	
<b>U1010 CONTROL UNIT (CAN) .....</b>	<b>273</b>	<b>U1227 AV CONTROL UNIT .....</b>	<b>291</b>	D
DTC Logic .....	273	DTC Logic .....	291	
<b>U1200 AV CONTROL UNIT .....</b>	<b>274</b>	Diagnosis Procedure .....	291	
DTC Logic .....	274	<b>U1228 AV CONTROL UNIT .....</b>	<b>292</b>	E
<b>U1201 AV CONTROL UNIT .....</b>	<b>275</b>	DTC Logic .....	292	
DTC Logic .....	275	<b>U1229 AV CONTROL UNIT .....</b>	<b>293</b>	F
<b>U1202 AV CONTROL UNIT .....</b>	<b>276</b>	DTC Logic .....	293	
DTC Logic .....	276	<b>U122A AV CONTROL UNIT .....</b>	<b>294</b>	G
<b>U1204 AV CONTROL UNIT .....</b>	<b>277</b>	DTC Logic .....	294	
DTC Logic .....	277	Diagnosis Procedure .....	294	
Diagnosis Procedure .....	277	<b>U122E AV CONTROL UNIT .....</b>	<b>295</b>	H
<b>U1205 AV CONTROL UNIT .....</b>	<b>278</b>	DTC Logic .....	295	
DTC Logic .....	278	<b>U1232 STEERING ANGLE SENSOR .....</b>	<b>296</b>	I
Diagnosis Procedure .....	278	DTC Logic .....	296	
<b>U1206 AV CONTROL UNIT .....</b>	<b>279</b>	Diagnosis Procedure .....	296	
DTC Logic .....	279	<b>U1243 DISPLAY UNIT .....</b>	<b>297</b>	J
Diagnosis Procedure .....	279	DTC Logic .....	297	
<b>U1207 AV CONTROL UNIT .....</b>	<b>280</b>	Diagnosis Procedure .....	297	
DTC Logic .....	280	<b>U1244 GPS ANTENNA .....</b>	<b>299</b>	K
Diagnosis Procedure .....	280	DTC Logic .....	299	
<b>U1216 AV CONTROL UNIT .....</b>	<b>281</b>	Diagnosis Procedure .....	299	
DTC Logic .....	281	<b>U1258 SATELLITE RADIO ANTENNA .....</b>	<b>300</b>	L
<b>U1217 AV CONTROL UNIT .....</b>	<b>282</b>	DTC Logic .....	300	
DTC Logic .....	282	Diagnosis Procedure .....	300	
<b>U1218 AV CONTROL UNIT .....</b>	<b>283</b>	<b>U1263 USB .....</b>	<b>301</b>	M
DTC Logic .....	283	DTC Logic .....	301	
Diagnosis Procedure .....	283	Diagnosis Procedure .....	301	
<b>U1219 AV CONTROL UNIT .....</b>	<b>284</b>	<b>U1264 ANTENNA AMP. ....</b>	<b>302</b>	AV
DTC Logic .....	284	DTC Logic .....	302	
Diagnosis Procedure .....	284	<b>COUPE .....</b>	<b>302</b>	O
<b>U121A AV CONTROL UNIT .....</b>	<b>285</b>	COUPE : Diagnosis Procedure .....	302	
DTC Logic .....	285	<b>ROADSTER .....</b>	<b>302</b>	P
Diagnosis Procedure .....	285	ROADSTER : Diagnosis Procedure .....	302	
<b>U121B AV CONTROL UNIT .....</b>	<b>286</b>	<b>U1265 BOSE AMP. ....</b>	<b>304</b>	
DTC Logic .....	286	DTC Logic .....	304	
Diagnosis Procedure .....	286	Diagnosis Procedure .....	304	
<b>U121C AV CONTROL UNIT .....</b>	<b>287</b>	<b>U1300 AV COMM CIRCUIT .....</b>	<b>305</b>	
DTC Logic .....	287	Description .....	305	
Diagnosis Procedure .....	287			

<b>U1310 AV CONTROL UNIT .....</b>	<b>306</b>	<b>FRONT DISPLAY UNIT .....</b>	<b>334</b>
DTC Logic .....	306	Exploded View .....	334
<b>POWER SUPPLY AND GROUND CIRCUIT ..</b>	<b>307</b>	Removal and Installation .....	334
<b>AV CONTROL UNIT .....</b>	<b>307</b>	<b>FRONT DOOR SPEAKER .....</b>	<b>335</b>
AV CONTROL UNIT : Diagnosis Procedure .....	307	Exploded View .....	335
<b>FRONT DISPLAY UNIT .....</b>	<b>307</b>	Removal and Installation .....	335
FRONT DISPLAY UNIT : Diagnosis Procedure .....	307	<b>TWEETER .....</b>	<b>336</b>
<b>BOSE AMP. ....</b>	<b>308</b>	Exploded View .....	336
BOSE AMP. : Diagnosis Procedure .....	308	Removal and Installation .....	336
<b>RGB DIGITAL IMAGE SIGNAL CIRCUIT .....</b>	<b>309</b>	<b>REAR SPEAKER .....</b>	<b>337</b>
Description .....	309	Exploded View .....	337
Diagnosis Procedure .....	309	Removal and Installation .....	337
<b>COMPOSITE IMAGE SIGNAL CIRCUIT .....</b>	<b>310</b>	<b>WOOFER .....</b>	<b>338</b>
Description .....	310	Exploded View .....	338
Diagnosis Procedure .....	310	Removal and Installation .....	338
<b>AUX IMAGE SIGNAL CIRCUIT .....</b>	<b>311</b>	<b>REAR WOOFER .....</b>	<b>339</b>
Description .....	311	Removal and Installation .....	339
Diagnosis Procedure .....	311	<b>BOSE AMP. ....</b>	<b>340</b>
<b>DISK EJECT SIGNAL CIRCUIT .....</b>	<b>312</b>	<b>COUPE .....</b>	<b>340</b>
Description .....	312	COUPE : Exploded View .....	340
Diagnosis Procedure .....	312	COUPE : Removal and Installation .....	340
<b>MICROPHONE SIGNAL CIRCUIT .....</b>	<b>313</b>	<b>ROADSTER .....</b>	<b>340</b>
Description .....	313	ROADSTER : Removal and Installation .....	340
Diagnosis Procedure .....	313	<b>ANTENNA AMP. ....</b>	<b>342</b>
<b>STEERING SWITCH SIGNAL A CIRCUIT .....</b>	<b>315</b>	Exploded View .....	342
Description .....	315	Removal and Installation .....	342
Diagnosis Procedure .....	315	<b>ANTENNA BASE .....</b>	<b>343</b>
Component Inspection .....	315	Exploded View .....	343
<b>STEERING SWITCH SIGNAL B CIRCUIT .....</b>	<b>317</b>	Removal and Installation .....	343
Description .....	317	<b>MULTIFUNCTION SWITCH .....</b>	<b>344</b>
Diagnosis Procedure .....	317	Exploded View .....	344
Component Inspection .....	317	Removal and Installation .....	344
<b>STEERING SWITCH GROUND CIRCUIT .....</b>	<b>319</b>	<b>PRESET SWITCH .....</b>	<b>345</b>
Description .....	319	Exploded View .....	345
Diagnosis Procedure .....	319	Removal and Installation .....	345
Component Inspection .....	319	<b>STEERING SWITCH .....</b>	<b>346</b>
<b>SYMPTOM DIAGNOSIS .....</b>	<b>321</b>	Exploded View .....	346
<b>MULTI AV SYSTEM SYMPTOMS .....</b>	<b>321</b>	Removal and Installation .....	346
Symptom Table .....	321	<b>USB CONNECTOR .....</b>	<b>347</b>
<b>NORMAL OPERATING CONDITION .....</b>	<b>326</b>	Removal and Installation .....	347
Description .....	326	<b>AUXILIARY INPUT JACKS .....</b>	<b>348</b>
<b>REMOVAL AND INSTALLATION .....</b>	<b>333</b>	Exploded View .....	348
<b>AV CONTROL UNIT .....</b>	<b>333</b>	Removal and Installation .....	348
Exploded View .....	333	<b>MICROPHONE .....</b>	<b>349</b>
Removal and Installation .....	333	Exploded View .....	349
		Removal and Installation .....	349

<b>GPS ANTENNA</b> .....	<b>350</b>	<b>ANTENNA FEEDER</b> .....	<b>354</b>	
Feeder Layout .....	350	<b>COUPE</b> .....	<b>354</b>	A
Removal and Installation .....	351	COUPE : Feeder Layout .....	354	
<b>SATELLITE RADIO ANTENNA</b> .....	<b>353</b>	<b>ROADSTER</b> .....	<b>354</b>	B
Exploded View .....	353	ROADSTER : Feeder Layout .....	355	
Removal and Installation .....	353			C
				D
				E
				F
				G
				H
				I
				J
				K
				L
				M
				<b>AV</b>
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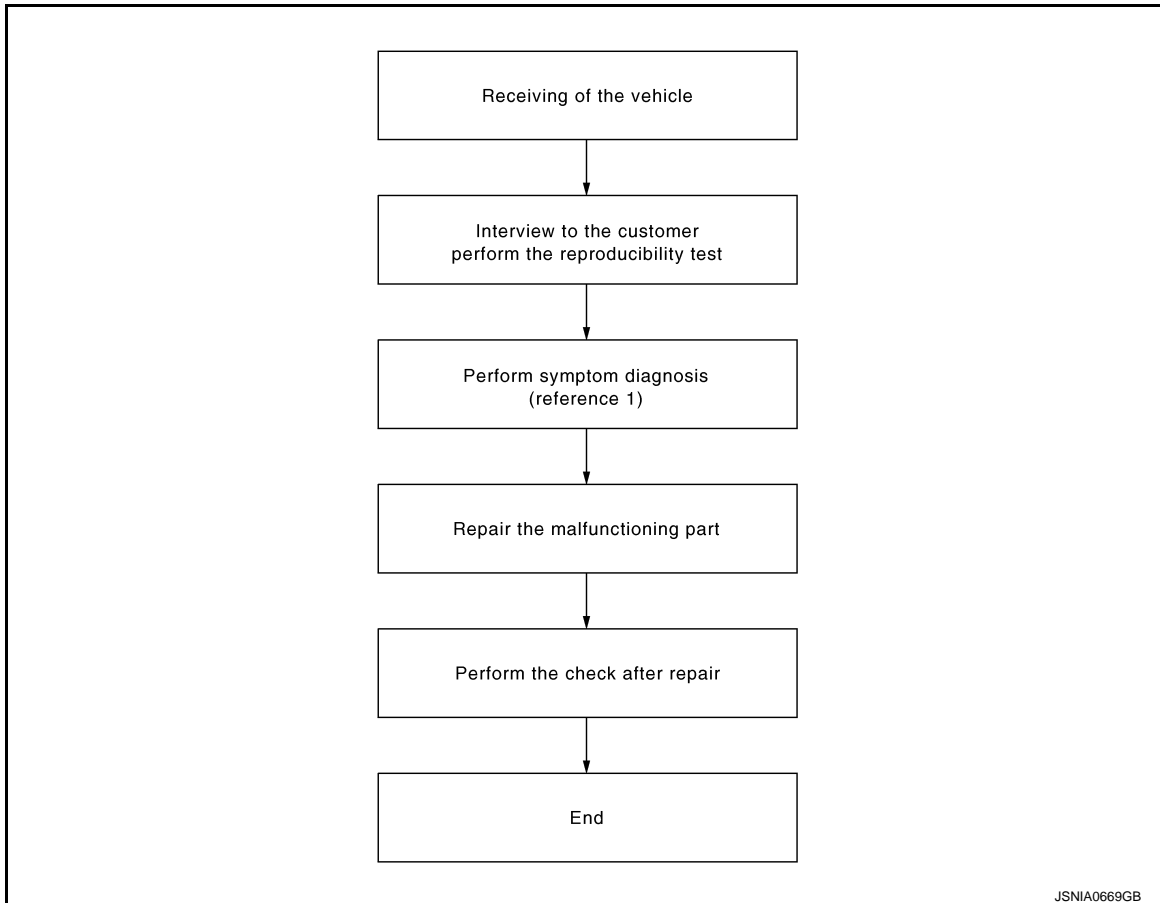
## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORKFLOW

#### Work Flow

INFOID:000000005511674

#### OVERALL SEQUENCE



Reference 1 ... Refer to [AV-28, "Symptom Table"](#).

#### DETAILED FLOW

##### 1. CHECK SYMPTOM

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.

>> GO TO 2.

##### 2. PERFORM DIAGNOSIS BY SYMPTOM

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to [AV-28, "Symptom Table"](#).

>> GO TO 3.

##### 3. REPAIR OR REPLACE MALFUNCTIONING PARTS

Repair or replace the malfunctioning parts.

>> GO TO 4.



# DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[BASE AUDIO]

## 4.FINAL CHECK

Perform the operation to check that the malfunction symptom is solved or any other symptoms are present.

Is there any symptom?

YES >> GO TO 2.

NO >> INSPECTION END

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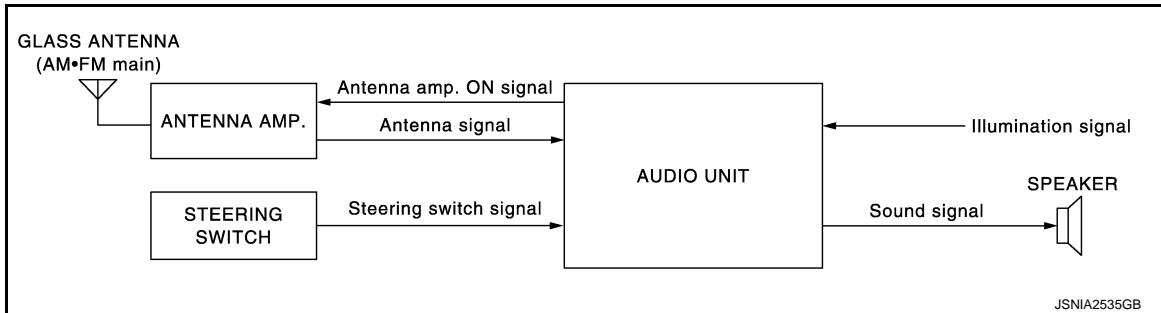
## SYSTEM DESCRIPTION

### AUDIO SYSTEM

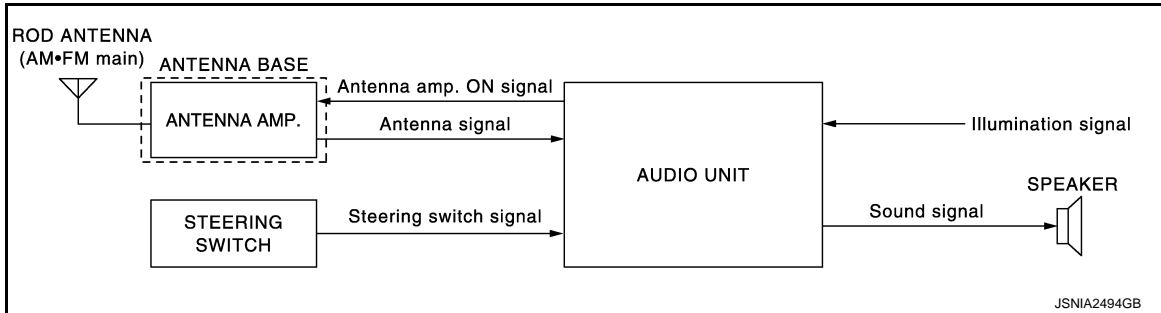
#### System Diagram

INFOID:000000005511675

#### COUPE MODELS



#### ROADSTER MODELS



#### System Description

INFOID:000000005511676

### AUDIO SYSTEM

Audio functions

AM/FM radio
CD

- Radio signal are received by glass antenna, next it is amplified by antenna amp., and finally it is input to audio unit. (coupe models)
- Radio signal are received by rod antenna, next it is amplified by antenna amp., and finally it is input to audio unit. (roadster models)
- Audio unit outputs the audio signal to each speaker.

# AUDIO SYSTEM

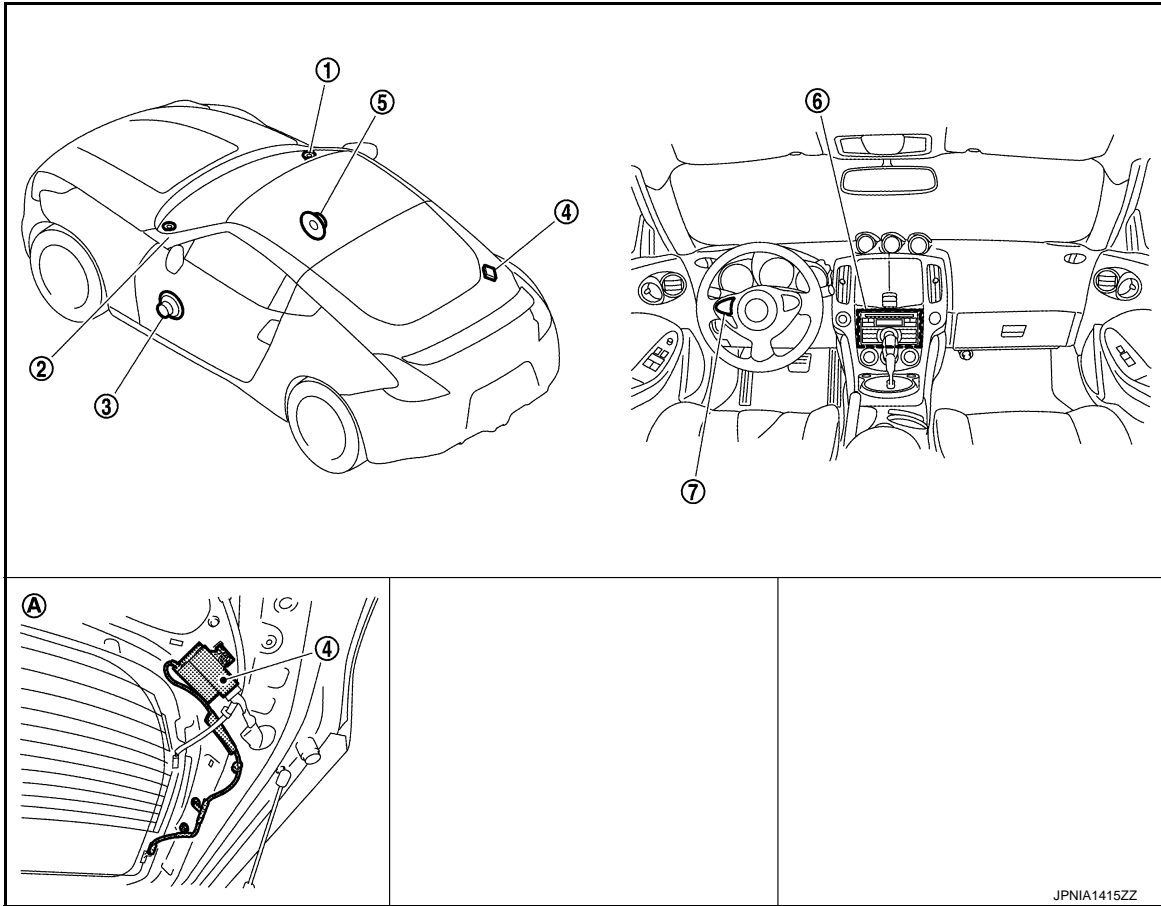
< SYSTEM DESCRIPTION >

[BASE AUDIO]

## Component Parts Location

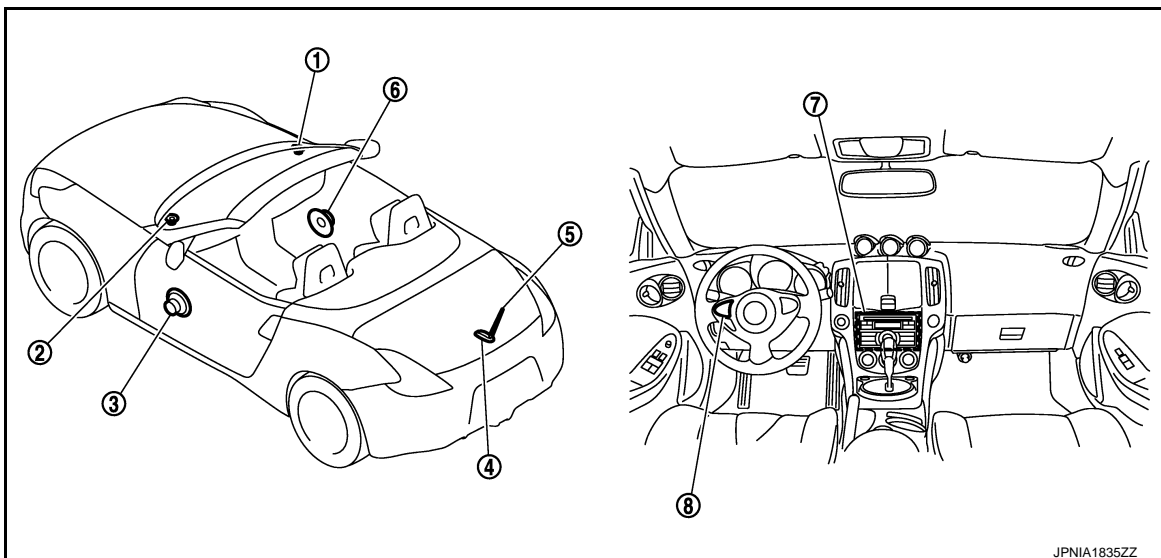
INFOID:000000005511677

### COUPE MODELS



- |                      |                          |                          |
|----------------------|--------------------------|--------------------------|
| 1. Tweeter RH        | 2. Tweeter LH            | 3. Front door speaker LH |
| 4. Antenna amp.      | 5. Front door speaker RH | 6. Audio unit            |
| 7. Steering switch   |                          |                          |
| A. Back door side RH |                          |                          |

### ROADSTER MODELS



- |               |               |                          |
|---------------|---------------|--------------------------|
| 1. Tweeter RH | 2. Tweeter LH | 3. Front door speaker LH |
|---------------|---------------|--------------------------|

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# AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[BASE AUDIO]

- |                 |                    |                          |
|-----------------|--------------------|--------------------------|
| 4. Antenna base | 5. Rod antenna     | 6. Front door speaker RH |
| 7. Audio unit   | 8. Steering switch |                          |

## Component Description

INFOID:000000005511678

Part name	Description
Audio unit	Controls audio system functions.
Front door speaker	<ul style="list-style-type: none"><li>• Outputs sound signal from audio unit.</li><li>• Outputs high, mid and low range sounds.</li></ul>
Tweeter	<ul style="list-style-type: none"><li>• Outputs sound signal from audio unit.</li><li>• Outputs high range sounds.</li></ul>
Antenna amp. (coupe models)	<ul style="list-style-type: none"><li>• Radio signal received by glass antenna is amplified and transmitted to audio unit.</li><li>• Power (antenna amp. ON signal) is supplied from audio unit.</li></ul>
Antenna base (roadster models)	<ul style="list-style-type: none"><li>• An antenna base integrated with radio antenna amp. is adopted.</li><li>• Radio signal received by rod antenna is amplified and transmitted to audio unit.</li><li>• Power (antenna amp. ON signal) is supplied from audio unit.</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 audio unit.</li></ul>

## DIAGNOSIS SYSTEM (AUDIO UNIT)

### Diagnosis Description

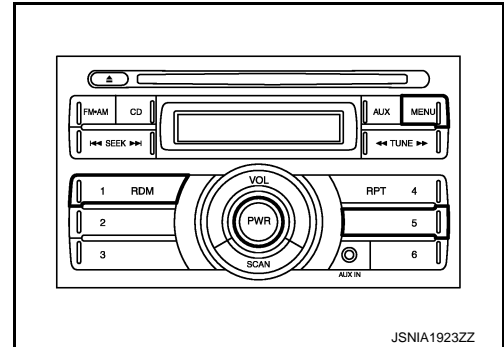
INFOID:000000005511679

Self-diagnosis mode can check the following items.

- Audio unit software versions

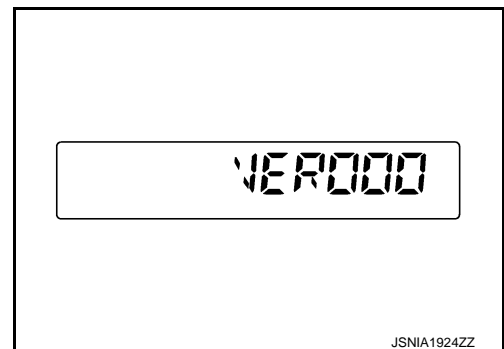
### OPERATION PROCEDURE

1. Turn ignition switch to the ON position.
2. Turn the audio unit off.
3. While pressing the "MENU", "1", "5", "PWR" button, the self-diagnosis mode is started. When the self-diagnosis mode is started, a short beep will be heard.



### Software Version Check

1. Press the "PWR" switch to enter version diagnostics. "Audio software version is displayed.
2. Press the "PWR" switch again to display the CD changer version is displayed. When not connect it, "FF"



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AV

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

## DTC/CIRCUIT DIAGNOSIS

### POWER SUPPLY AND GROUND CIRCUIT AUDIO UNIT

#### AUDIO UNIT : Diagnosis Procedure

INFOID:000000005511680

#### 1.CHECK FUSE

Check that the following fuses of the audio unit are not blown.

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

#### Is inspection result OK?

YES >> GO TO 2.

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

#### 2.CHECK AUDIO UNIT POWER SUPPLY CIRCUIT

Check voltage between the audio unit and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Voltage
Battery power supply	M80	19	OFF	Battery voltage
ACC power supply		7	ACC	

#### Is inspection result OK?

YES >> INSPECTION END

NO >> Check harness between audio unit and fuse.

# STEERING SWITCH SIGNAL A CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

## STEERING SWITCH SIGNAL A CIRCUIT

### Description

INFOID:000000005511681

Transmits the steering switch signal to audio unit.

### Diagnosis Procedure

INFOID:000000005511682

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

1. Turn ignition switch OFF.
2. Disconnect audio unit connector and spiral cable connector.
3. Check continuity between audio unit harness connector and spiral cable harness connector.

Audio unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
M80	6	M36	24	Existed

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

Audio 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. Refer to [SR-17. "Removal and Installation"](#).

#### 3.CHECK AUDIO UNIT VOLTAGE

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

(+)		(-)		Voltage (Approx.)
Audio unit		Audio unit		
Connector	Terminal	Connector	Terminal	
M80	6	M80	15	5.0 V

Is the inspection result normal?

- YES >> GO TO 4.  
 NO >> Replace audio unit. Refer to [AV-33. "Removal and Installation"](#).

#### 4.CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-16. "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
 NO >> Replace steering switch. Refer to [AV-36. "Removal and Installation"](#).

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# STEERING SWITCH SIGNAL A CIRCUIT

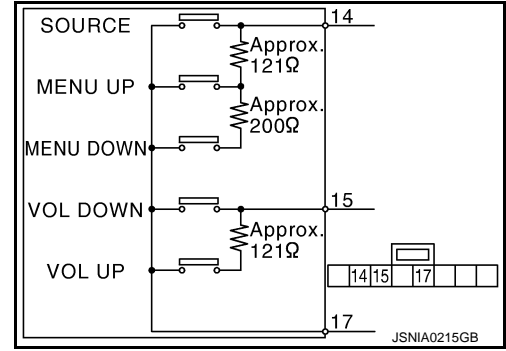
< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

INFOID:000000005511683

## Component Inspection

Measure the resistance between the steering switch connector.



Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
14	17	MENU DOWN switch ON	315 – 327
		MENU UP switch ON	119 – 123
		SOURCE switch ON	0
15	17	VOL UP switch ON	119 – 123
		VOL DOWN switch ON	0



# STEERING SWITCH SIGNAL B CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

## STEERING SWITCH SIGNAL B CIRCUIT

### Description

INFOID:000000005511684

Transmits the steering switch signal to audio unit.

### Diagnosis Procedure

INFOID:000000005511685

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

1. Turn ignition switch OFF.
2. Disconnect audio unit connector and spiral cable connector.
3. Check continuity between audio unit harness connector and spiral cable harness connector.

Audio unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
M80	16	M36	31	Existed

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

Audio 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. Refer to [SR-17. "Removal and Installation"](#).

#### 3.CHECK AUDIO UNIT VOLTAGE

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

(+)		(-)		Voltage (Approx.)
Audio unit		Audio unit		
Connector	Terminal	Connector	Terminal	
M80	16	M80	15	5.0 V

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Replace audio unit. Refer to [AV-33. "Removal and Installation"](#).

#### 4.CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-18. "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace steering switch. Refer to [AV-36. "Removal and Installation"](#).

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# STEERING SWITCH SIGNAL B CIRCUIT

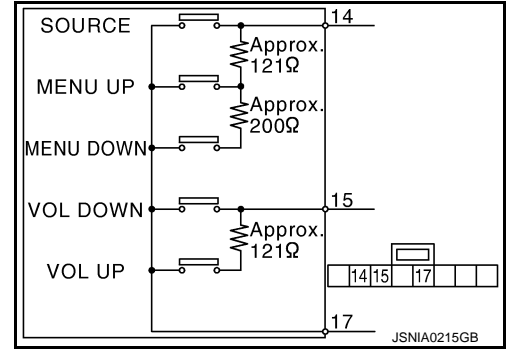
< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

INFOID:000000005511686

## Component Inspection

Measure the resistance between the steering switch connector.



Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
14	17	MENU DOWN switch ON	315 – 327
		MENU UP switch ON	119 – 123
		SOURCE switch ON	0
15	17	VOL UP switch ON	119 – 123
		VOL DOWN switch ON	0

# STEERING SWITCH SIGNAL GND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

## STEERING SWITCH SIGNAL GND CIRCUIT

### Description

INFOID:000000005511687

Transmits the steering switch signal to audio unit.

### Diagnosis Procedure

INFOID:000000005511688

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

1. Turn ignition switch OFF.
2. Disconnect audio unit connector and spiral cable connector.
3. Check continuity between audio unit harness connector and spiral cable harness connector.

Audio unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
M80	15	M36	33	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. Refer to [SR-17, "Removal and Installation"](#).

#### 3.CHECK GROUND CIRCUIT

1. Connect audio unit connector and spiral cable connector.
2. Turn ignition switch ON.
3. Check continuity between audio unit harness connector.

Audio unit		Ground	Continuity
Connector	Terminal		
M80	15		Existed

Is the inspection result normal?

- YES >> GO TO 4.  
 NO >> Replace audio unit. Refer to [AV-33, "Removal and Installation"](#).

#### 4.CHECK STEERING SWITCH

Check steering switch. Refer to [AV-20, "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
 NO >> Replace steering switch. Reer to [AV-36, "Removal and Installation"](#).

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# STEERING SWITCH SIGNAL GND CIRCUIT

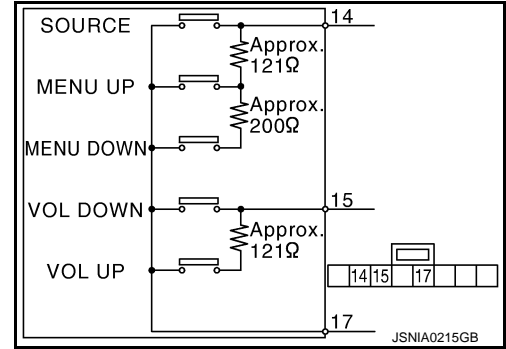
< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

INFOID:000000005511689

## Component Inspection

Measure the resistance between the steering switch connector.



Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
14	17	MENU DOWN switch ON	315 – 327
		MENU UP switch ON	119 – 123
		SOURCE switch ON	0
15	17	VOL UP switch ON	119 – 123
		VOL DOWN switch ON	0

# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO]

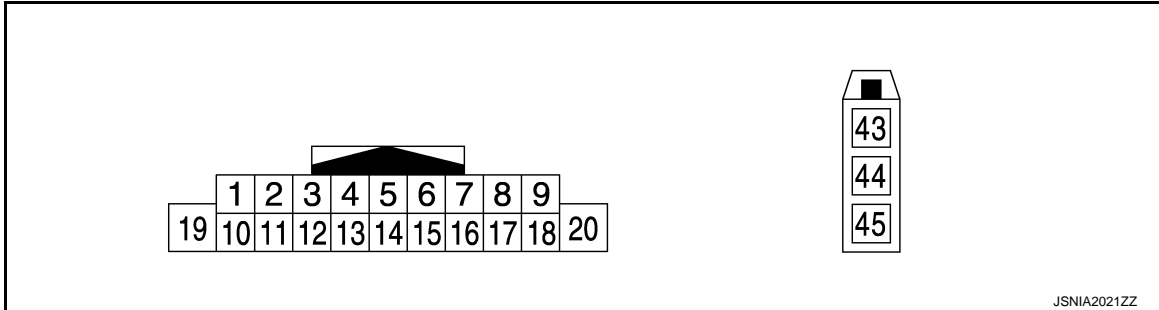
## ECU DIAGNOSIS INFORMATION

### AUDIO UNIT

Reference Value

INFOID:000000005511690

### TERMINAL LAYOUT



### PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/Output			
2 (L)	3 (V)	Sound signal front speaker LH	Output	Ignition switch ON	Audio signal output	<p>SKIB3609E</p>
6 (P)	15 (B)	Steering switch signal A	Input	Ignition switch ON	Keep pressing SOURCE switch	0 V
					Keep pressing MENU UP switch	1.0 V
					Keep pressing MENU DOWN switch	2.0 V
					Except for above	5.0 V
7 (L)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
9 (R)	8 (W)	Illumination signal	Input	Ignition switch OFF	Lighting switch is OFF.	0 V
					Lighting switch is 1ST or 2ND.	12.0 V
11 (V)	12 (LG)	Sound signal front speaker RH	Output	Ignition switch ON	Audio signal output	<p>SKIB3609E</p>

# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
16 (L)	15 (B)	Steering switch signal B	Input	Ignition switch ON	Keep pressing VOL DOWN switch	0 V
					Keep pressing VOL UP switch	1.0 V
					Except for above	5.0 V
19 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
43	Ground	Antenna amp. ON signal	Output	Ignition switch ON	—	12.0 V
44	—	Antenna signal	Input	—	—	—

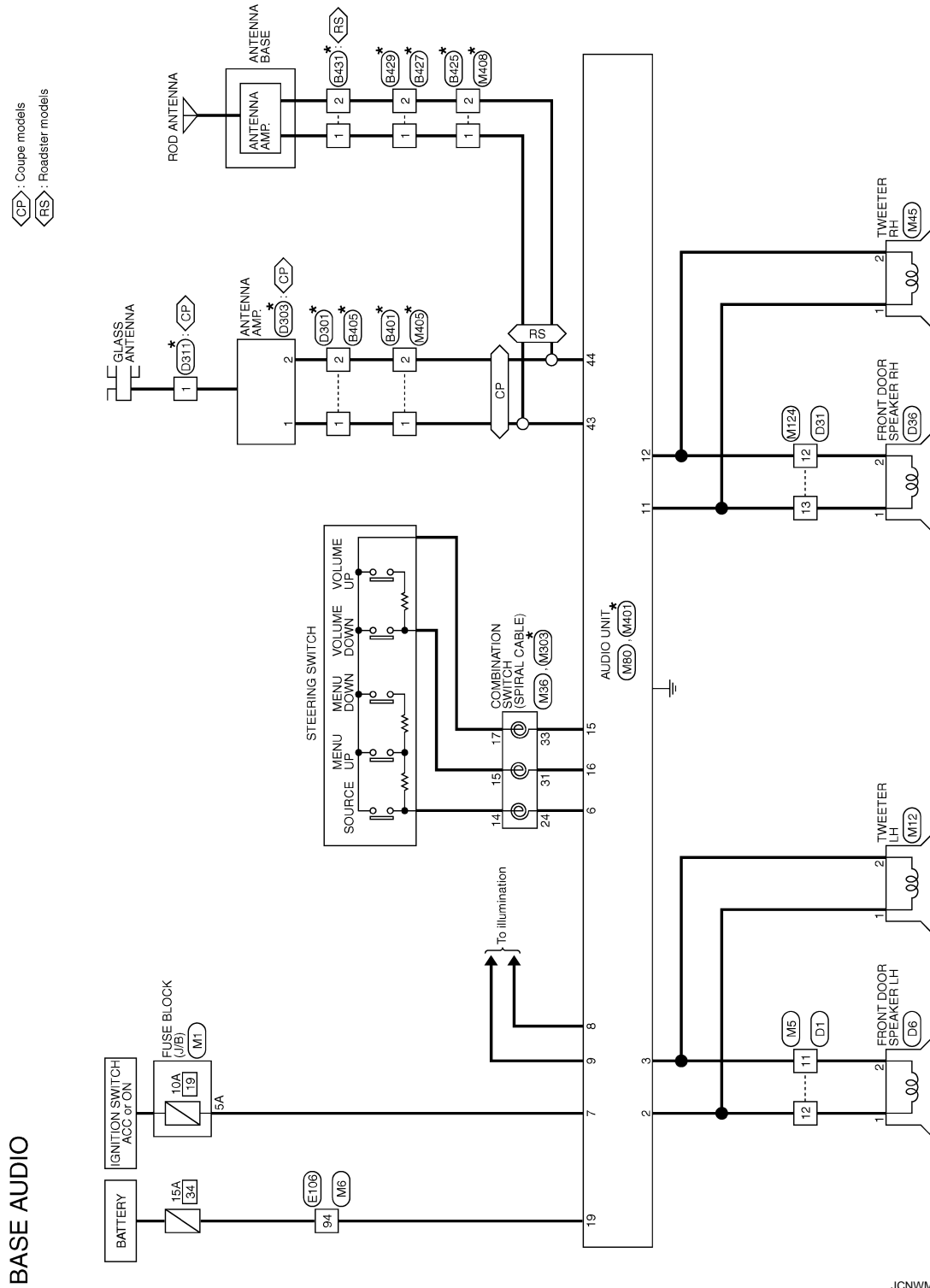
# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO]

## Wiring Diagram - BASE AUDIO -

INFOID:000000005511691



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JCNWM3096GB

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# AUDIO UNIT

**BASE AUDIO**

Connector No.	B401
Connector Name	WIRE TO WIRE
Connector Type	GT13SCH-1/PP-HU



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

Connector No.	B405
Connector Name	WIRE TO WIRE
Connector Type	GT13SCH-1/PP-HU(Z1)



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

Connector No.	B425
Connector Name	WIRE TO WIRE
Connector Type	GT13SCH-1/PP-HU



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

Connector No.	B427
Connector Name	WIRE TO WIRE
Connector Type	GT13SCH-1/PP-HU(Z1)



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

Connector No.	B429
Connector Name	WIRE TO WIRE
Connector Type	GT13SCH-1/S-HU(Z1)



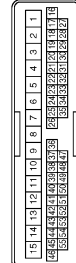
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	B431
Connector Name	ANTENNA BASE
Connector Type	GT13SCH-1/PP-HU



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

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



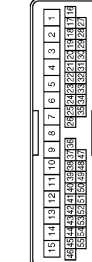
Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	Y	-
9	G	-
10	BG	- [Coupe models]
10	O	- [Roadster models]
11	P	- [With BOSE system]
11	V	- [Without BOSE system]
12	L	-
13	B	-
14	SB	- [Coupe models]
14	Y	- [Roadster models]
15	W	-
19	G	-
23	R	-
44	L	-
47	B	-
48	SB	-
49	W	-
50	LG	-
51	R	-
52	V	-
53	BG	- [Coupe models]
53	O	- [Roadster models]
54	GR	-
55	G	-

Connector No.	D6
Connector Name	FRONT DOOR SPEAKER LH
Connector Type	NS20FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	- [With BOSE system]
2	V	- [Without BOSE system]

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



Terminal No.	Color of Wire	Signal Name [Specification]
10	V	-
11	LG	-
12	P	- [With BOSE system]
12	LG	- [Without BOSE system]
13	V	- [Coupe models without BOSE system]
13	L	- [Except for coupe models without BOSE system]
14	B	-
15	W	-
19	P	-
23	L	-
44	L	-
50	Y	-
51	Y	-
52	G	-
53	BG	- [Coupe models]
53	O	- [Roadster models]
54	GR	-
55	L	-



# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO]

## BASE AUDIO

Connector No.	D38
Connector Name	FRONT DOOR SPEAKER RH
Connector Type	NS22PW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [Coupe models without BOSE system]
1	L	- [Except for coupe models without BOSE system]
2	P	- [With BOSE system]
2	LG	- [Without BOSE system]

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Type	GT13SS-1/IS-HU(21)



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

Connector No.	D303
Connector Name	ANTENNA AMP.
Connector Type	GT13SC-1/IS-HU



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

1	-	ANTENNA AMP ON SIGNAL
2	-	AM-FM MAIN

Connector No.	D311
Connector Name	GLASS ANTENNA
Connector Type	PRO1FB-A



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

Connector No.	E108
Connector Name	WIRE TO WIRE
Connector Type	TH86PW-OS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	L	-
4	L	-
7	B	-
8	P	-
9	L	- [Coupe models]
9	B	- [Roadster models]
11	V	-
12	R	-
13	L	-
14	GR	-
15	P	-
16	W	-
17	SB	-
20	LG	-
21	BR	- [Coupe models]
21	G	- [Roadster models]

31	L	-
32	Y	-
33	P	-
34	L	-
35	BR	-
36	V	-
37	Y	-
38	R	-
39	B	-
40	W	-
41	LG	-
42	SB	-
43	G	-
44	GR	- [Roadster models with M/T]
44	GR	- [Except for roadster models with M/T]
45	BG	- [Coupe models]
45	O	- [Roadster models]
46	W	-
47	P	-
48	SHIELD	-
59	L	-
70	P	-
80	W	-
81	P	-
82	G	-
83	V	-
84	L	-
85	BG	- [Coupe models]
85	O	- [Roadster models]
86	LG	-
87	R	-
89	P	-
91	W	-
92	L	-
93	G	-
94	Y	-
96	Y	-
97	BR	-
99	GR	-
99	LG	-
100	BG	- [Coupe models]
100	O	- [Roadster models]

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS30PW-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1A	V	-
2A	G	-
3A	L	-
4A	P	-
5A	L	-
6A	Y	-
7A	BR	-
8A	L	-

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JCNWM3098GB

# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO]

## BASE AUDIO

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS15



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	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	46	47	48	49	50	51	52	53	54	55
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	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	46	47	48	49	50	51	52	53	54	55

Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	Y	-
9	G	-
10	V	-
11	V	-
12	L	-
13	B	-
14	Y	-
15	W	-
18	Y	-
23	Y/B	-
44	L	-
47	B	-
48	SB	-
49	SB	- [Roadster models with M/T] - [Except for roadster models with M/T]
50	W	-
51	R	-
52	L	-
53	W	-
54	G	-
55	R	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS18-TM4



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	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	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	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	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

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

1	Y	-
3	L	-
4	L	-
7	B	-
8	P	-
9	L	- [Coupe models] - [Roadster models]
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-
17	BR	-
20	GR	-
21	BR	- [Coupe models] - [Roadster models]
31	L	- [Roadster models with M/T] - [Except for roadster models with M/T]
32	Y	- [Roadster models with M/T] - [Except for roadster models with M/T]
33	P	-
34	L	-
35	BR	-
36	SB	-
37	Y	-
38	LG	-
39	SB	-
40	W	-
41	LG	-
42	R	-
43	G	-
44	G	- [With A/T] - [With M/T]
44	R	-
45	O	-
46	G	-
47	BR	-
56	SHIELD	-
70	R	-
80	LG	-
81	GR	-
82	V	-
83	V	-
84	L	-
85	BR	-
86	Y	-
87	V	- [Roadster models with M/T] - [Except for roadster models with M/T]
89	P	-
91	W	-
92	P	-

93	P	-
94	Y	-
96	P	-
97	GR	-
98	O	-
99	W	-
100	R	-

Connector No.	M12
Connector Name	TWEETER LH
Connector Type	TK02FBR



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	M36
Connector Name	COMBINATION SWITCH (SIGNAL CABLE)
Connector Type	TK08FGY-IV



24	25	26	27	28	29	30	31	32	33	34
24	25	26	27	28	29	30	31	32	33	34

Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
25	SB	-
26	W	- [Coupe models] - [Roadster models]
28	BR	-
31	L	-
32	Y	-
33	B	-
34	LG	-

Connector No.	M45
Connector Name	TWEETER RH
Connector Type	TK02FBR



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	M63
Connector Name	COMBINATION METER
Connector Type	TH24FW-NH



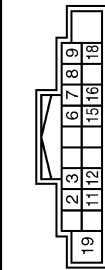
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	O	IGNITION POWER SUPPLY
3	L	VEHICLE SPEED SIGNAL (2-PULSE)
4	Y	VEHICLE SPEED SIGNAL (8-PULSE)
5	B	ILLUMINATION CONTROL SIGNAL
6	R	ROOF STATUS SIGNAL
9	BR	COMMUNICATION SIGNAL (METER-TRIPLE METER)
10	L	COMMUNICATION SIGNAL (TRIPLE METER-METER)
12	G	S-MODE SWITCH SIGNAL
15	L	ACC POWER SUPPLY
16	R	AIR BAG SIGNAL
17	B	GROUND
18	V	AMBIENT SENSOR SIGNAL
19	G	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
20	GR	AMBIENT SENSOR GROUND
21	L	CAN-H
22	P	CAN-L
23	B	GROUND
24	Y	FUEL LEVEL SENSOR GROUND

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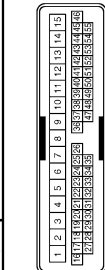
### BASE AUDIO

Connector No.	M189
Connector Name	AUDIO UNIT
Connector Type	TH18PW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	SOUND SIGNAL FRONT SPEAKER LH (+)
2	V	SOUND SIGNAL FRONT SPEAKER LH (-)
3	P	STRG SW A
4	L	ACC
5	W	ILL (-)
6	R	ILL (+)
7	V	SOUND SIGNAL FRONT SPEAKER RH (+)
8	LG	SOUND SIGNAL FRONT SPEAKER RH (-)
9	B	STRG SW GND
10	L	STRG SW B
11	Y	BATTERY

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



Terminal No.	Color of Wire	Signal Name [Specification]
10	G	- [Coupe models]
11	V	- [Roadster models]
12	V	- [Coupe models]
13	LG	- [Roadster models]
14	B	-
15	W	-
16	Y/B	-
17	R	- [Coupe models]

44	O	- [Roadster models]
50	Y	-
51	Y	-
52	G	- [Roadster models with M/T]
52	GR	- [Except for roadster models with M/T]
53	W	-
54	G	-
55	R	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-

Connector No.	M401
Connector Name	AUDIO UNIT
Connector Type	GT13SP-2/IS-HU



Terminal No.	Color of Wire	Signal Name [Specification]
43	-	ANTENNA AMP. ON SIGNAL
44	-	ANTENNA SIGNAL

Connector No.	M405
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/IS-HU



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

Connector No.	M408
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/IS-HU



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

## SYMPTOM DIAGNOSIS

### AUDIO SYSTEM

#### Symptom Table

INFOID:000000005511692

#### AUDIO SYSTEM

Symptoms	Check items	Possible malfunction location / Action to take
Audio sound is not heard.	No sound from all speakers.	Audio unit power supply and ground circuit. Refer to <a href="#">AV-14, "AUDIO UNIT : Diagnosis Procedure"</a> .
	Sound is not heard only from the specific places.	Sound signal circuit of malfunctioning system.

#### RELATED TO STEERING SWITCH

Symptoms	Possible malfunction location / Action to take
All steering switches are not operated.	Steering switch signal ground circuit. Refer to <a href="#">AV-19, "Diagnosis Procedure"</a> .
Only specified switch cannot be operated.	Replace steering switch.
"MENU UP", "MENU DOWN" and "SOURCE" switches are not operated.	Steering switch signal A circuit. Refer to <a href="#">AV-15, "Diagnosis Procedure"</a> .
"VOL UP" and "VOL DOWN" switches are not operated.	Steering switch signal B circuit. Refer to <a href="#">AV-17, "Diagnosis Procedure"</a> .

# NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BASE AUDIO]

## NORMAL OPERATING CONDITION

### Description

INFOID:000000005511693

#### RELATED TO AUDIO

- The majority of the audio malfunctions are the result of outside causes (bad CD, 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 that noise is caused and/or changed by engine speed, ignition switch turned to each position, and operation of each piece of electrical equipment. Then determine the cause.

#### NOTE:

Check that 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.

Symptoms	Cause and Counter measure
Cannot play	Check that the CD was inserted correctly.
	Check that the CD is scratched or dirty.
	Check that there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.
	The player will play correctly after it returns to the normal temperature if there is a temperature increase error.
	Check that the finalization process, such as session close and disc close, is done for the disc.
Check that the CD is protected by copyright.	
Poor sound quality	Check that the CD is scratched or dirty.
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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## PRECAUTION

### PRECAUTIONS

#### EXCEPT FOR MEXICO

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

INFOID:000000005548479

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.

#### EXCEPT FOR MEXICO : Precaution for Battery Service

INFOID:000000005511695

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

#### FOR MEXICO

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

INFOID:000000005669067

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. 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".

# PRECAUTIONS

< PRECAUTION >

[BASE AUDIO]

- 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.

## FOR MEXICO : Precaution for Battery Service

INFOID:000000005669068

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

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# PREPARATION

< PREPARATION >

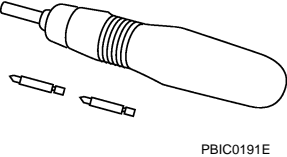
[BASE AUDIO]

## PREPARATION

### PREPARATION

#### Commercial Service Tools

INFOID:000000005511696

Tool name	Description
<p data-bbox="164 520 272 541">Power tool</p>  <p data-bbox="829 632 899 646">PBIC0191E</p>	<p data-bbox="1010 520 1192 541">Loosening screws</p>



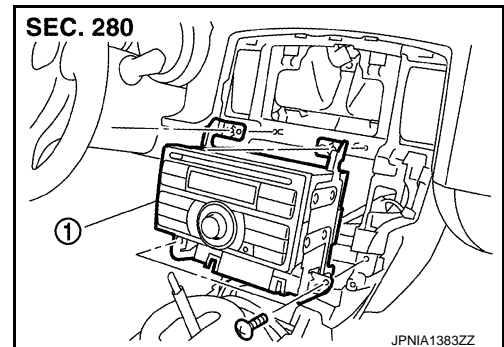
## REMOVAL AND INSTALLATION

### AUDIO UNIT

#### Exploded View

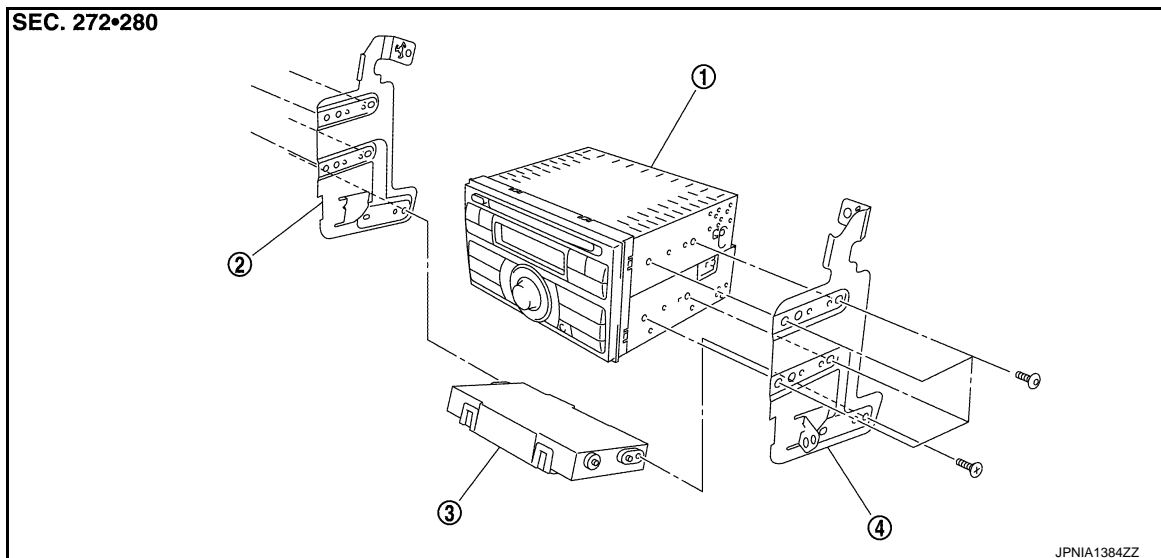
#### REMOVAL

INFOID:000000005511697



1. Audio unit

#### DISASSEMBLY



1. Audio unit
2. Bracket LH
3. A/C auto amp.
4. Bracket RH

#### Removal and Installation

INFOID:000000005511698

#### REMOVAL

1. Remove cluster lid C. Refer to [IP-12, "Exploded View"](#).
2. Remove audio unit with A/C auto amp. as a single unit from the body.
3. Remove bracket screws to remove audio unit.

#### INSTALLATION

Install in the reverse order of removal.

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# FRONT DOOR SPEAKER

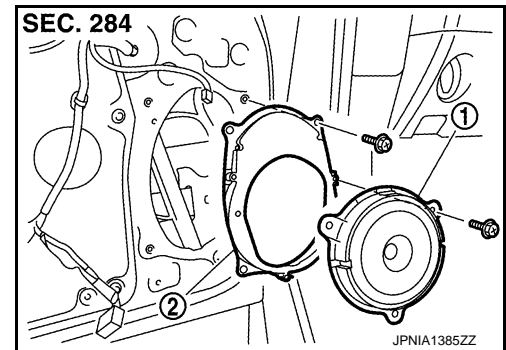
< REMOVAL AND INSTALLATION >

[BASE AUDIO]

## FRONT DOOR SPEAKER

Exploded View

INFOID:000000005511699



1. Front door speaker
2. Bracket

## Removal and Installation

INFOID:000000005511700

### REMOVAL

1. Remove door finisher. Refer to [INT-14. "Removal and Installation"](#) (coupe models) or [INT-43. "Removal and Installation"](#) (roadster models).
2. Remove front door speaker from bracket.

### INSTALLATION

Install in the reverse order of removal.

# TWEETER

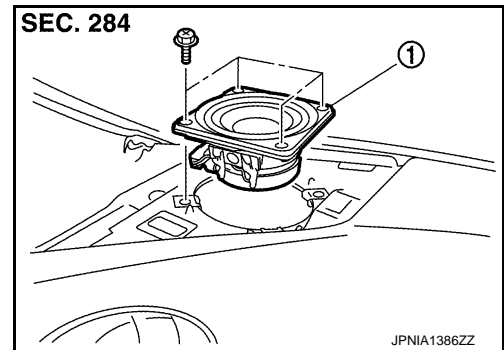
< REMOVAL AND INSTALLATION >

[BASE AUDIO]

## TWEETER

### Exploded View

INFOID:000000005511701



1. Tweeter

### Removal and Installation

INFOID:000000005511702

#### REMOVAL

1. Remove speaker grille. Refer to [JP-12. "Exploded View"](#).
2. Remove tweeter screws, then lift up tweeter, disconnect connector and remove tweeter.

#### INSTALLATION

Install in the reverse order of removal.

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# STEERING SWITCH

< REMOVAL AND INSTALLATION >

[BASE AUDIO]

---

## STEERING SWITCH

### Exploded View

INFOID:000000005511703

Refer to [ST-14, "Exploded View"](#).

### Removal and Installation

INFOID:000000005511704

#### REMOVAL

Refer to [ST-14, "Removal and Installation"](#).

#### INSTALLATION

Installation is the reverse order of removal.

# ANTENNA AMP.

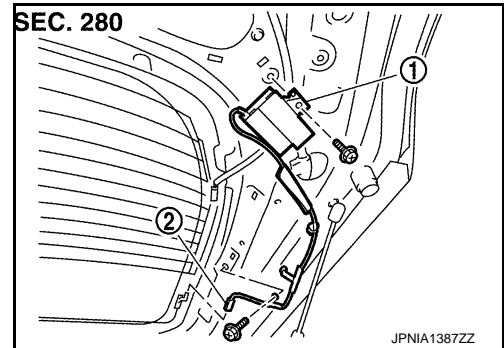
< REMOVAL AND INSTALLATION >

[BASE AUDIO]

## ANTENNA AMP.

### Exploded View

INFOID:000000005511705



1. Antenna amp.
2. Connector

### Removal and Installation

INFOID:000000005511706

#### REMOVAL

1. Remove back door finisher side. Refer to [INT-30, "Exploded View"](#).
2. Disconnect connector and remove screw, then remove antenna amp.

#### INSTALLATION

Install in the reverse order of removal.

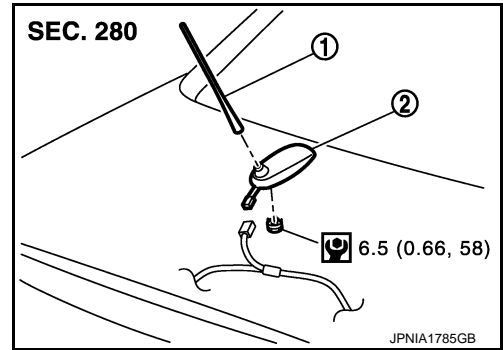
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## ANTENNA BASE

### Exploded View

INFOID:000000005513178



1. Antenna rod
2. Antenna base

Refer to [GI-4, "Components"](#) for symbols in the figure.

### Removal and Installation

INFOID:000000005513179

#### REMOVAL

1. Remove trunk lid finisher inner. Refer to [INT-99, "Exploded View"](#).
2. Remove antenna base mounting nut, disconnect the antenna base connector.
3. Remove antenna base.

#### INSTALLATION

Installation is the reverse order of removal.

#### **CAUTION:**

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

# ANTENNA FEEDER

< REMOVAL AND INSTALLATION >

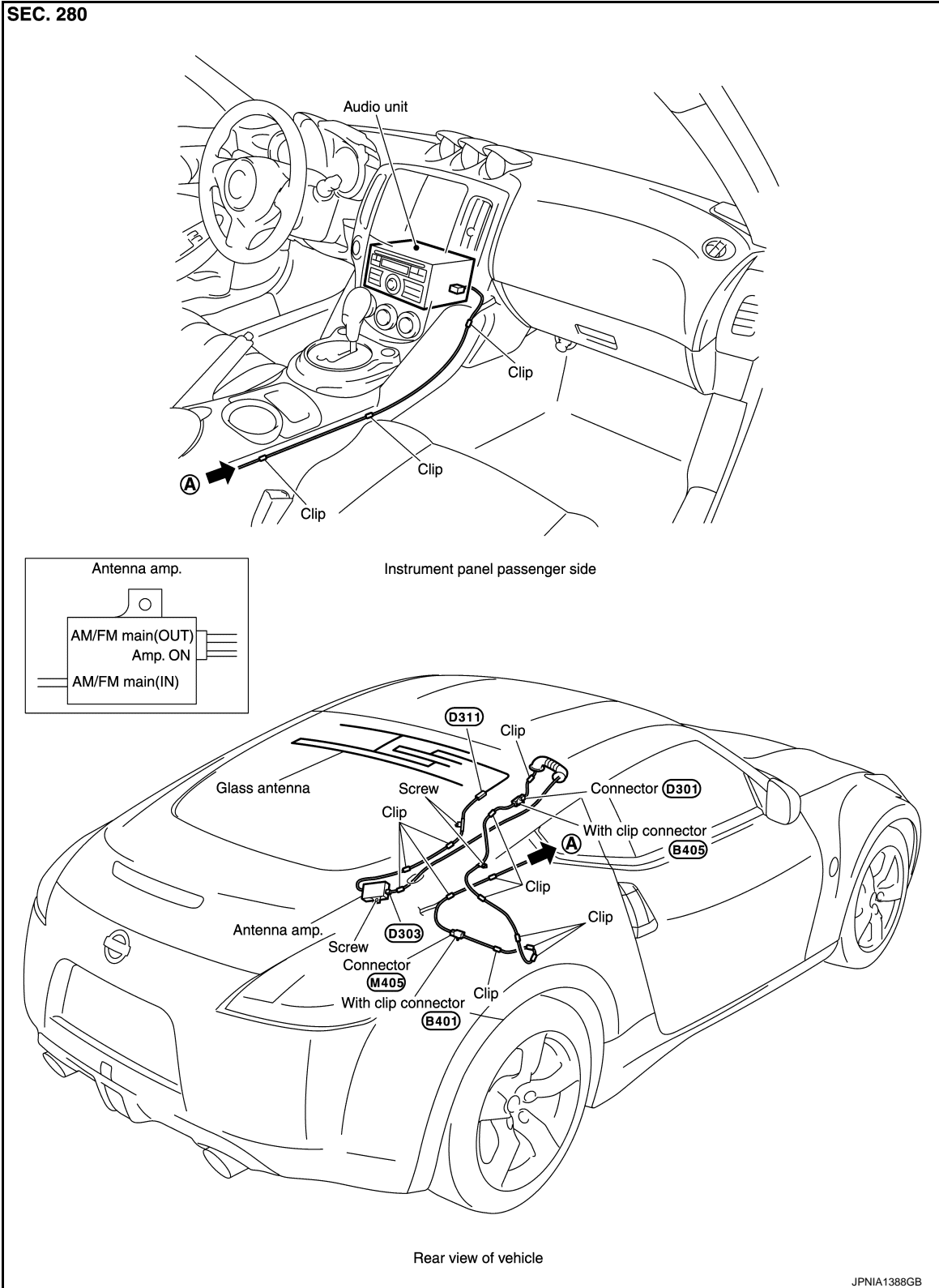
[BASE AUDIO]

## ANTENNA FEEDER

### COUPE

### COUPE : Feeder Layout

INFOID:000000005518076



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### ROADSTER

# ANTENNA FEEDER

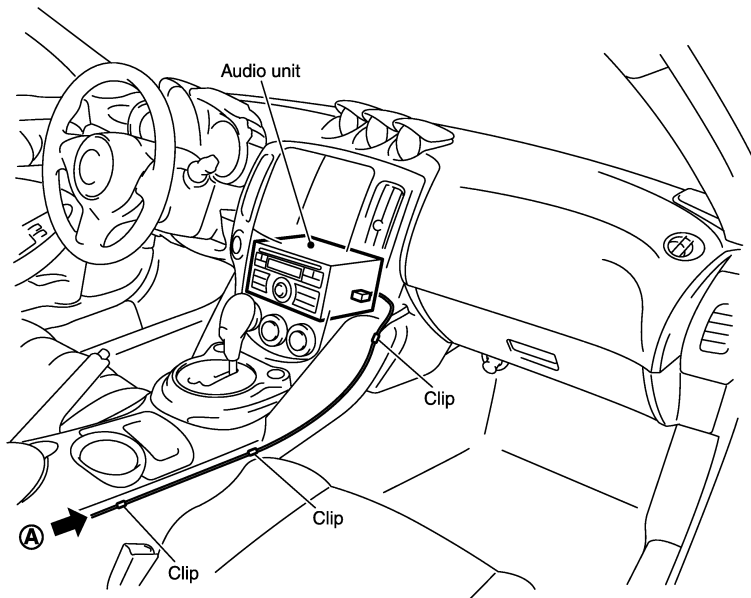
< REMOVAL AND INSTALLATION >

[BASE AUDIO]

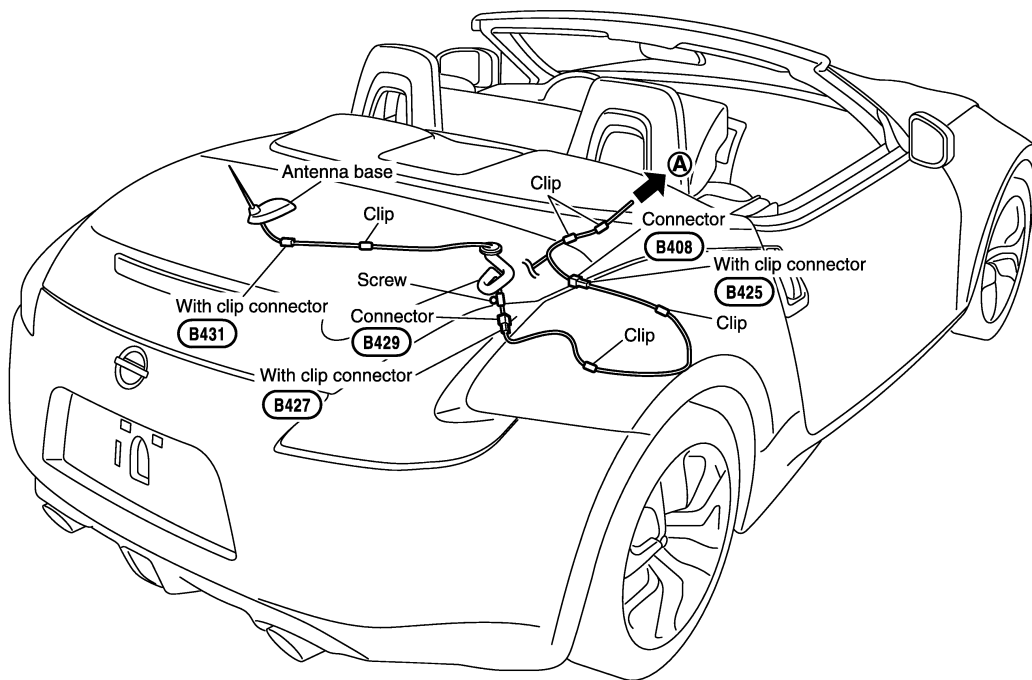
## ROADSTER : Feeder Layout

INFOID:000000005511707

### SEC. 280



Instrument panel passenger side



Rear view of vehicle

JPNIA1837GB



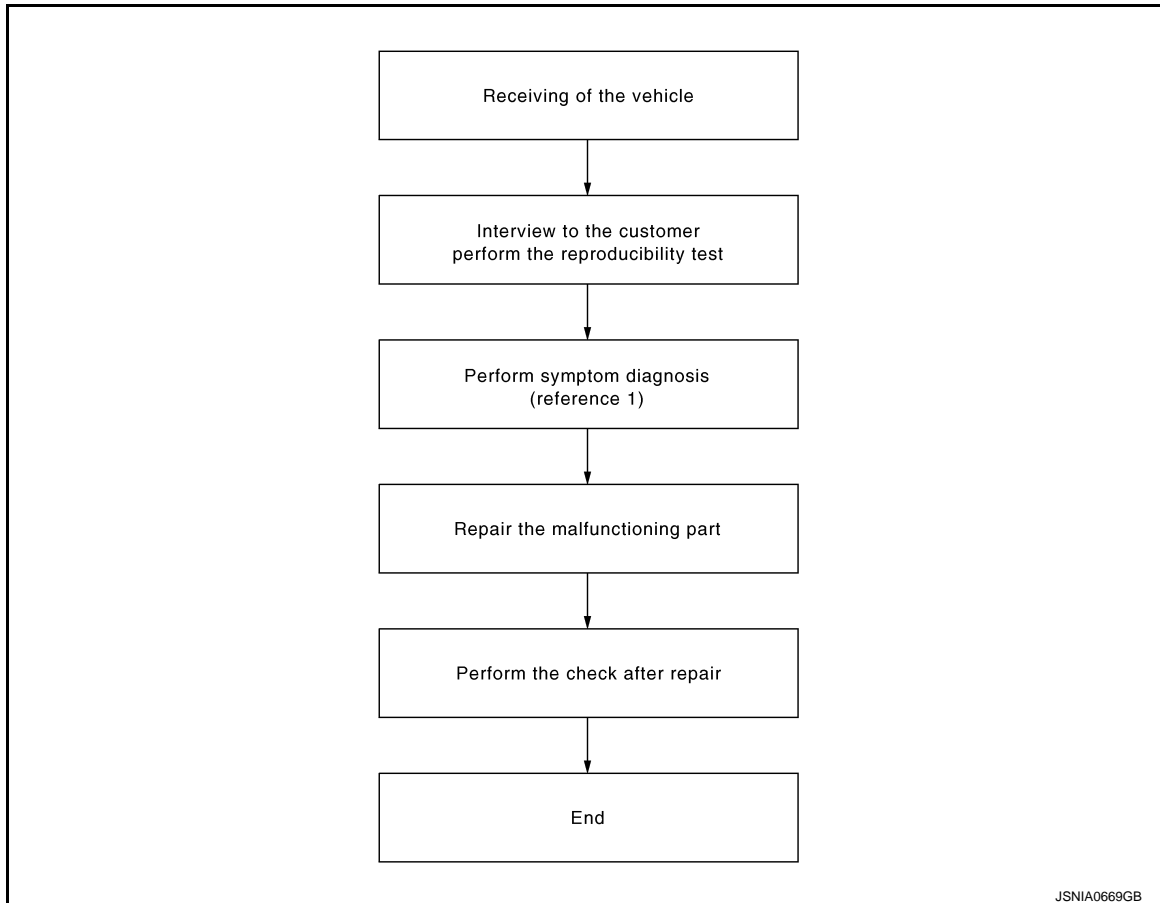
**BASIC INSPECTION**

## DIAGNOSIS AND REPAIR WORKFLOW

## Work Flow

INFOID:000000005511708

## OVERALL SEQUENCE

Reference 1 ... Refer to [AV-179. "Symptom Table"](#).

## DETAILED FLOW

**1.CHECK SYMPTOM**

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.

&gt;&gt; GO TO 2.

**2.PERFORM DIAGNOSIS BY SYMPTOM**Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to [AV-179. "Symptom Table"](#).

&gt;&gt; GO TO 3.

**3.REPAIR OR REPLACE MALFUNCTIONING PARTS**

Repair or replace the malfunctioning parts.

&gt;&gt; GO TO 4.

## DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[BOSE AUDIO WITHOUT NAVIGATION]

---

### 4. FINAL CHECK

---

Perform the operation to check that the malfunction symptom is solved or any other symptoms are present.

Is there any symptom?

YES >> GO TO 2.

NO >> INSPECTION END

# AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITHOUT NAVIGATION]

## SYSTEM DESCRIPTION

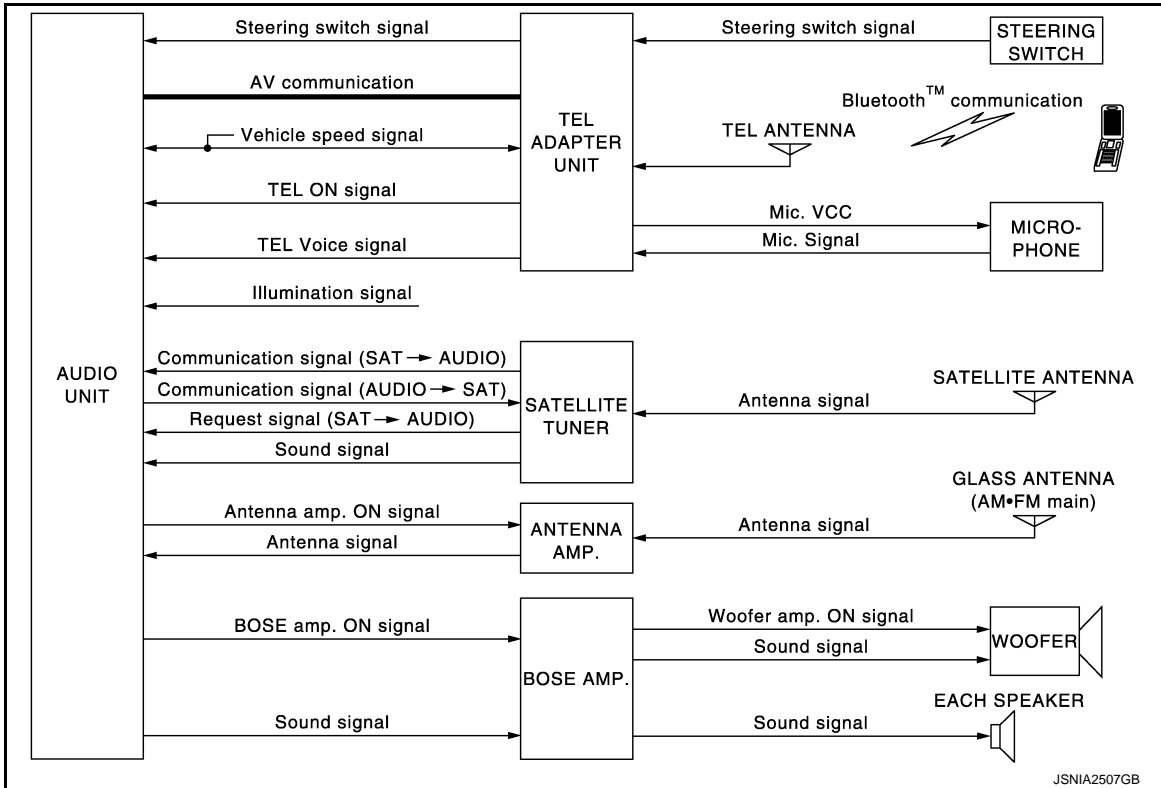
### AUDIO SYSTEM

#### System Diagram

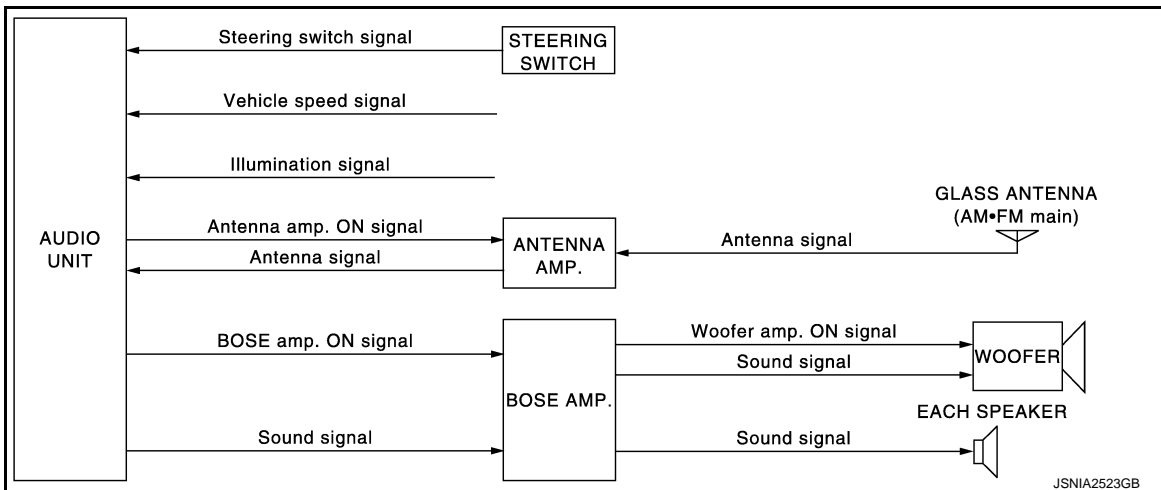
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#### COUPE MODELS

Except For MEXICO Models



For MEXICO Models



**NOTE:**

Woofer, illustrated in the above figure, integrates two woofers and a woofer amp.

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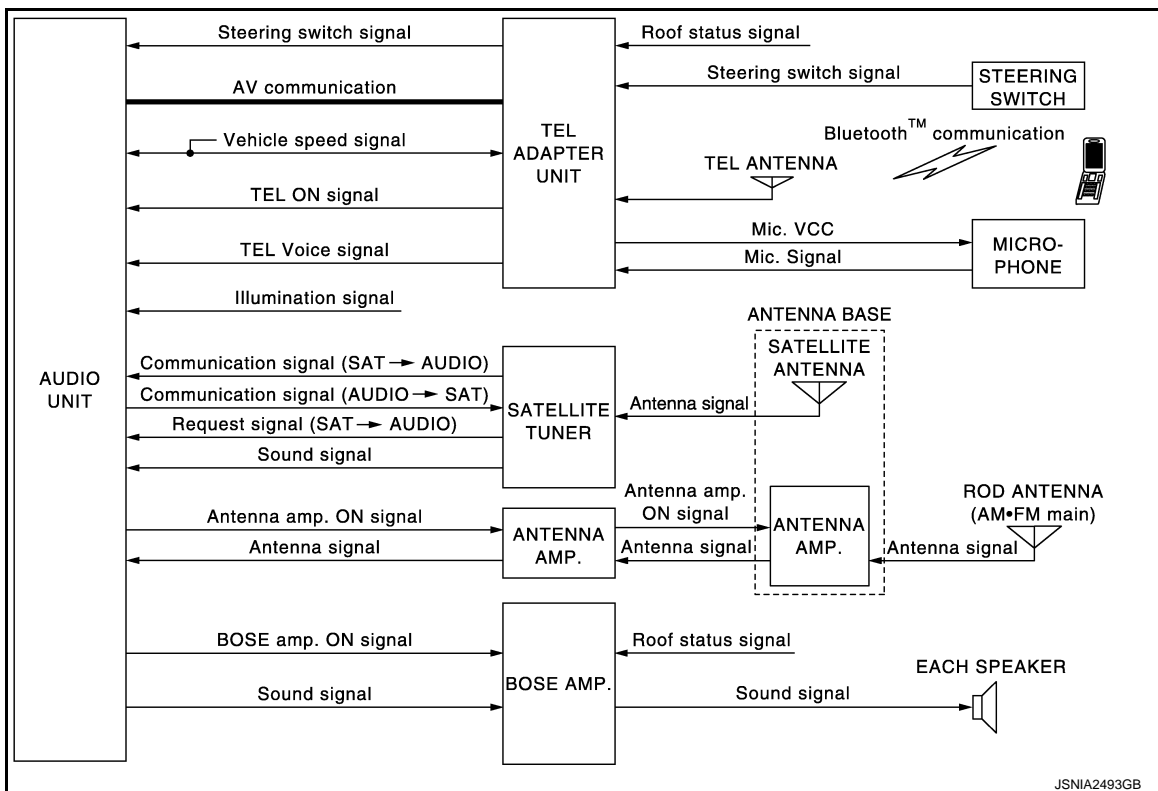
AV

# AUDIO SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< SYSTEM DESCRIPTION >

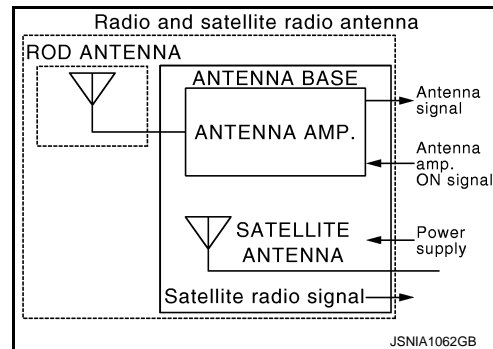
ROADSTER MODELS



JSNIA2493GB

**NOTE:**

An antenna base integrated with antenna amp. and satellite antenna are adopted.



JSNIA1062GB

## System Description

INFOID:000000005511710

### AUDIO SYSTEM

Audio functions

AM/FM radio
Satellite radio (except for mexico models)
6CD
Speed sensitive volume
Sound equalizer automatic switching (roadster models)

- Radio signals are received by glass antenna, next it is amplified by antenna amp., and finally it is input to audio unit. (coupe models)
- Radio signals are received by rod antenna, next it is amplified by antenna amp., and finally it is input to audio unit. (roadster models)
- Audio unit outputs sound signal to BOSE amp. and BOSE amp. outputs to woofer and each speaker. (coupe models)
- Audio unit outputs sound signal to BOSE amp. and BOSE amp. outputs to each speaker. (roadster models)

#### Satellite Radio System

- Radio signals are supplied to satellite radio tuner from the satellite radio antenna.

# AUDIO SYSTEM

## [BOSE AUDIO WITHOUT NAVIGATION]

### < SYSTEM DESCRIPTION >

- The satellite radio tuner sends sound signal to the audio unit.
- Audio unit outputs sound signal to BOSE amp. and BOSE amp. outputs to woofer and each speaker. (coupe models)
- Audio unit outputs sound signal to BOSE amp. and BOSE amp. outputs to each speaker. (roadster models)

#### Speed Sensitive Volume

- Volume level of this system goes up and down automatically in proportion to the vehicle speed.
- The control level can be selected by the customer.

#### Sound Equalizer Automatic Switching Function

Sound quality in a fully-open retractable soft top condition is improved by the correction for bringing the frequency characteristics in a fully-open retractable soft top condition closer to the characteristics in a fully-closed retractable soft top condition. When the retractable soft top is in a fully-open condition, sound pressure is reduced due to the absence of sound echo generated by sound reflection from the retractable soft top. BOSE amp. detects an open-close condition of the retractable soft top by receiving a roof status signal from the retractable soft top control unit and switches the equalizer to correct the frequency characteristics in a fully-open retractable soft top condition. During the switching of the equalizer, audio stops temporarily due to the temporary mute.

#### AM Frequency Step Change Mode (Models For MEXICO Only)

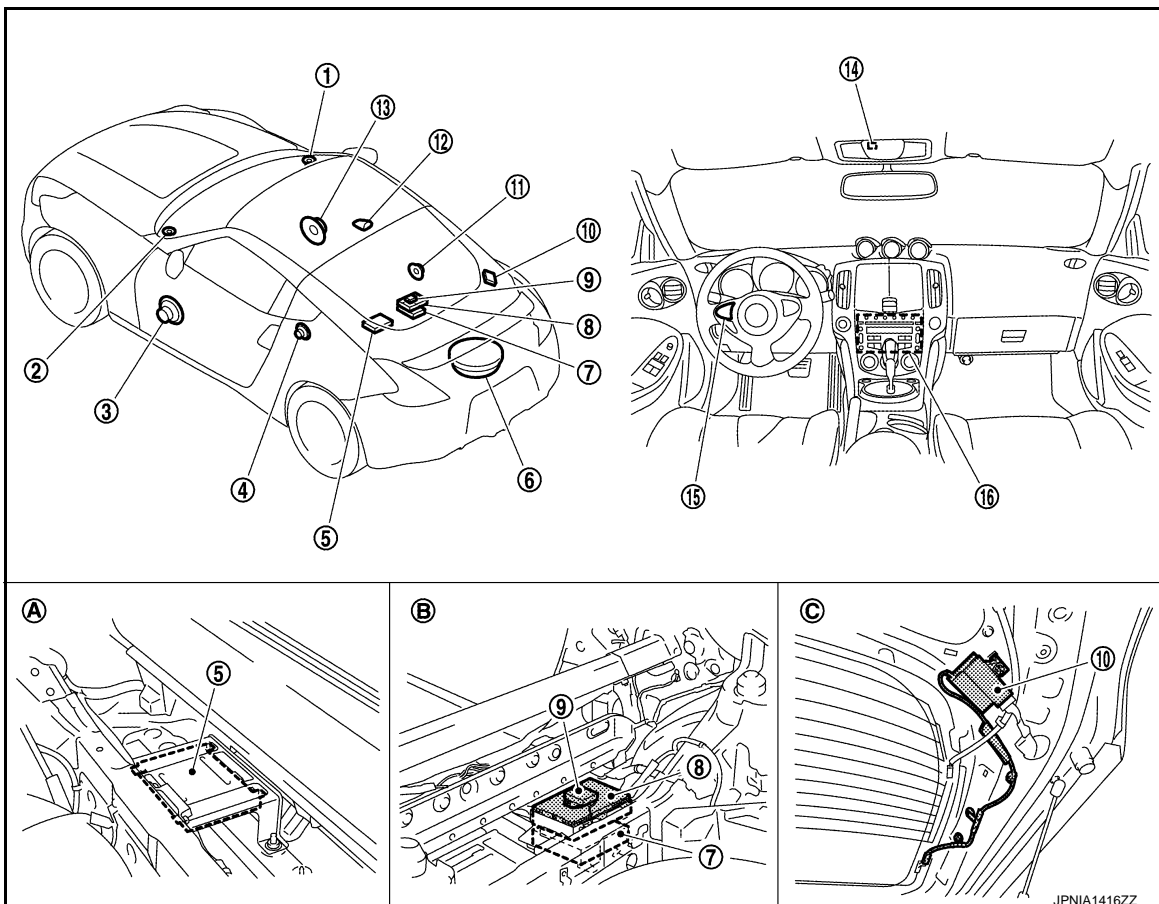
For models of Mexico, switch the AM frequency band of the radio to STEP. The switching method is as follows:

1. Turn the ignition switch ON.
2. Turn the audio unit OFF.
3. With buttons "1", "4" and "SEEK DOWN" pressed, turn ON the audio unit to change AM frequency band to STEP.

### Component Parts Location

INFOID:000000005511711

#### COUPE MODELS



- |                    |               |                          |
|--------------------|---------------|--------------------------|
| 1. Tweeter RH      | 2. Tweeter LH | 3. Front door speaker LH |
| 4. Rear speaker LH | 5. BOSE amp.  | 6. Woofer                |

# AUDIO SYSTEM

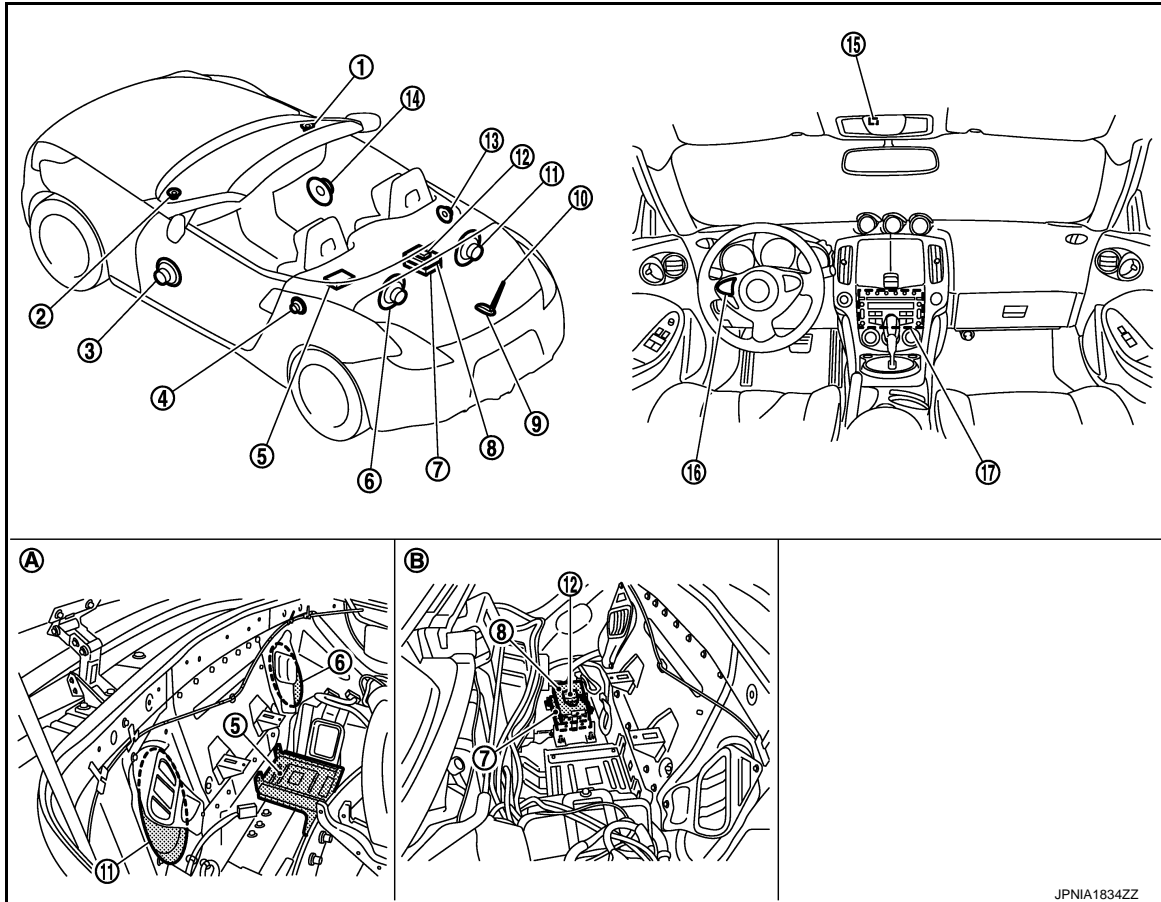
[BOSE AUDIO WITHOUT NAVIGATION]

## < SYSTEM DESCRIPTION >

- |                           |                      |                              |
|---------------------------|----------------------|------------------------------|
| 7. Satellite radio tuner* | 8. TEL adapter unit* | 9. TEL antenna*              |
| 10. Antenna amp.          | 11. Rear speaker RH  | 12. Satellite radio antenna* |
| 13. Front door speaker RH | 14. Microphone*      | 15. Steering switch          |
| 16. Audio unit            |                      |                              |
| A. Luggage side LH        | B. Luggage side RH   | C. Back door side RH         |

\*: Except for Mexico models

## ROADSTER MODELS



- |                          |                           |                          |
|--------------------------|---------------------------|--------------------------|
| 1. Tweeter RH            | 2. Tweeter LH             | 3. Front door speaker LH |
| 4. Rear speaker LH       | 5. BOSE amp.              | 6. Rear woofer LH        |
| 7. Satellite radio tuner | 8. TEL adapter unit       | 9. Antenna base          |
| 10. Rod antenna          | 11. Rear woofer RH        | 12. TEL antenna          |
| 13. Rear speaker RH      | 14. Front door speaker RH | 15. Microphone           |
| 16. Steering switch      | 17. Audio unit            |                          |
| A. Luggage side LH       | B. Luggage side RH        |                          |

## Component Description

INFOID:000000005511712

# AUDIO SYSTEM

## [BOSE AUDIO WITHOUT NAVIGATION]

### < SYSTEM DESCRIPTION >

Part name	Description	
Audio unit	Controls audio system and satellite radio system functions.	A
BOSE amp.	Coupe models <ul style="list-style-type: none"> <li>• Receives power (BOSE amp. ON) and sound signals from audio unit, and outputs sound signals to woofer and each speaker.</li> <li>• Woofer amp. ON signal is output to woofer.</li> </ul> Roadster models <ul style="list-style-type: none"> <li>• Receives power (BOSE amp. ON) and sound signals from audio unit, and outputs sound signals to woofer and each speaker.</li> <li>• Input roof status signal from retractable soft top control unit.</li> </ul>	B C
Steering switch	Except Mexico models <ul style="list-style-type: none"> <li>• Each audio operation can be operated.</li> <li>• Steering switch signal (operation signal) is output to audio unit through TEL adapter unit.</li> </ul> Mexico models <ul style="list-style-type: none"> <li>• Steering switch signal (operation signal) is output to audio unit.</li> </ul>	D E
Front door speaker	<ul style="list-style-type: none"> <li>• Outputs sound signal from BOSE amp.</li> <li>• Outputs mid and low range sounds.</li> </ul>	F
Tweeter	<ul style="list-style-type: none"> <li>• Outputs sound signal from BOSE amp.</li> <li>• Outputs high range sounds.</li> </ul>	G
Rear 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>	H
Woofer (coupe models)	<ul style="list-style-type: none"> <li>• Woofer amp. ON signal is input from BOSE amp.</li> <li>• Outputs sound signal from BOSE amp.</li> <li>• Outputs low range sounds.</li> </ul>	I
Rear woofer (roadster models)	<ul style="list-style-type: none"> <li>• Outputs sound signal from BOSE amp.</li> <li>• Outputs low range sounds.</li> </ul>	J
Antenna amp. (coupe models)	<ul style="list-style-type: none"> <li>• Radio signal received by glass antenna is amplified and transmitted to audio unit.</li> <li>• Power (antenna amp. ON signal) is supplied from audio unit.</li> </ul>	K
Antenna base (roadster models)	An antenna base integrated with radio antenna amp. and satellite radio antenna are adopted. <ul style="list-style-type: none"> <li>Radio antenna               <ul style="list-style-type: none"> <li>• Radio signal received by rod antenna is amplified and transmitted to audio unit.</li> <li>• Power (antenna amp. ON signal) is supplied from audio unit.</li> </ul> </li> <li>Satellite radio antenna               <ul style="list-style-type: none"> <li>• Receives the satellite radio wave and outputs it to the satellite radio tuner.</li> </ul> </li> </ul>	L
Satellite radio antenna	Sound signal (satellite radio) is received and output to satellite radio tuner.	M
Satellite radio tuner	<ul style="list-style-type: none"> <li>• Receives radio signals from satellite radio antenna.</li> <li>• Sends sound signals to audio unit.</li> </ul>	M

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# HANDS-FREE PHONE SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< SYSTEM DESCRIPTION >

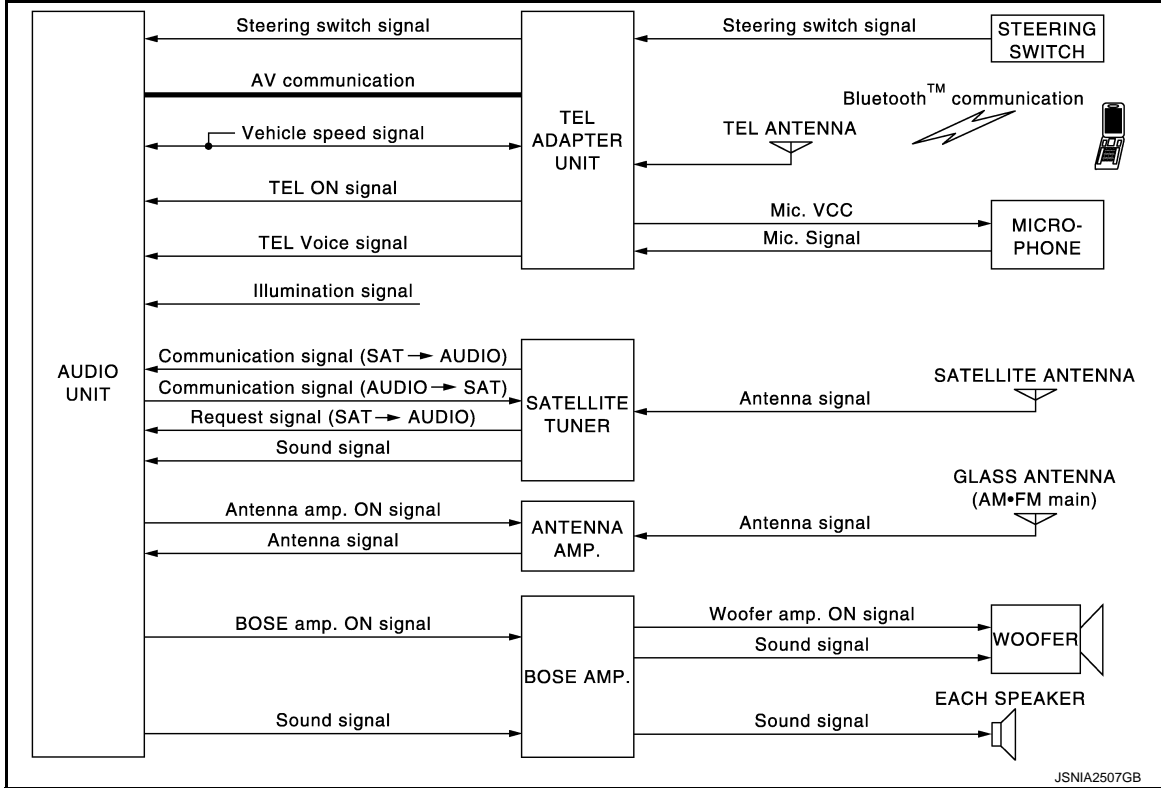
## HANDS-FREE PHONE SYSTEM

### System Diagram

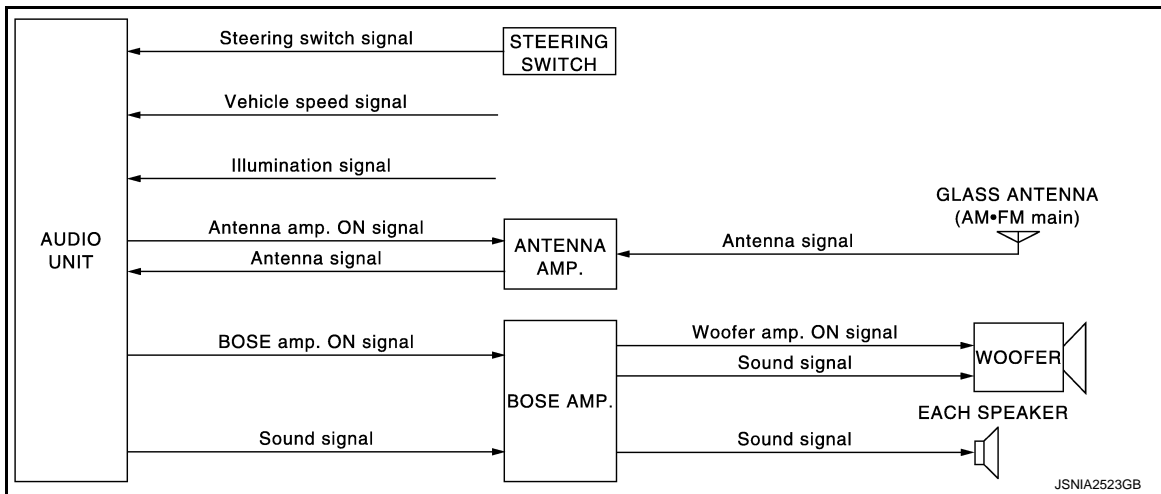
INFOID:000000005511713

### COUPE MODELS

Except For MEXICO Models



For MEXICO Models



**NOTE:**

Woofer, illustrated in the above figure, integrates two woofers and a woofer amp.

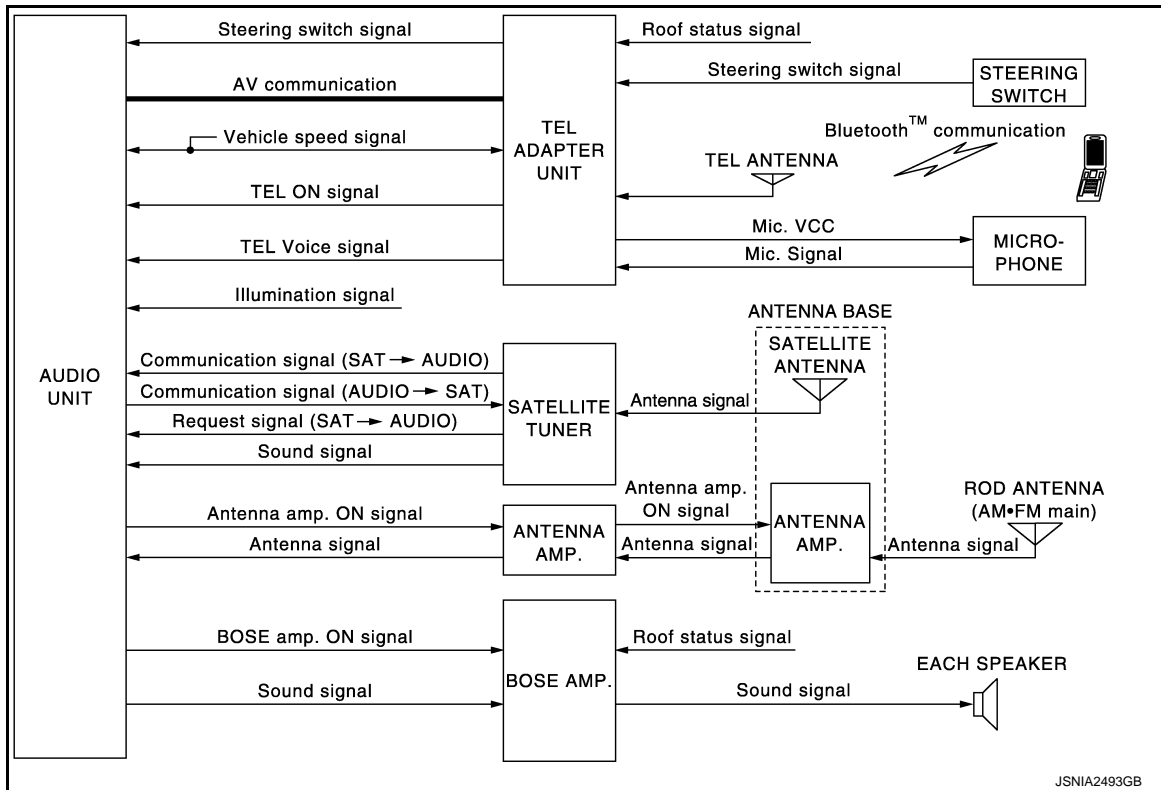


# HANDS-FREE PHONE SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

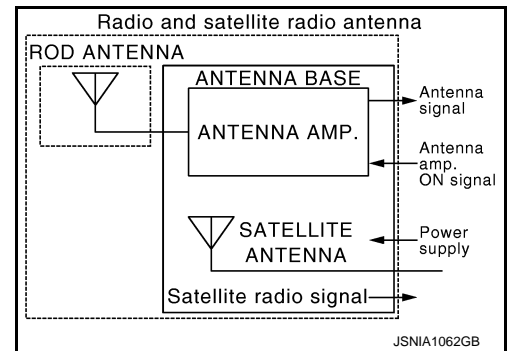
< SYSTEM DESCRIPTION >

ROADSTER MODELS



**NOTE:**

An antenna base integrated with antenna amp. and satellite antenna are adopted.



## System Description

INFOID:000000005511714

- The connection between portable telephone and TEL adapter unit is performed with Bluetooth™ communication.
- The voice guidance signal is input from the TEL adapter unit to the audio unit and output via BOSE amp. to the front speaker when operating the telephone.
- TEL adapter unit has the on board self-diagnosis function. Refer to [AV-55. "Diagnosis Description"](#).
- Start of hands-free phone system can be performed by steering switch.

### WHEN RECEIVING A CALL

Telephone voice signal received with the portable telephone is input from TEL antenna via TEL adapter unit to audio 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.

### WHEN A CALL IS ORIGINATED

Speech sound (telephone 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.

### VOICE RECOGNITION FUNCTION

- Each operation of multi AV system can be performed by inputting sound to microphone.
- Start of voice recognition system can be performed by steering switch.

# HANDS-FREE PHONE SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

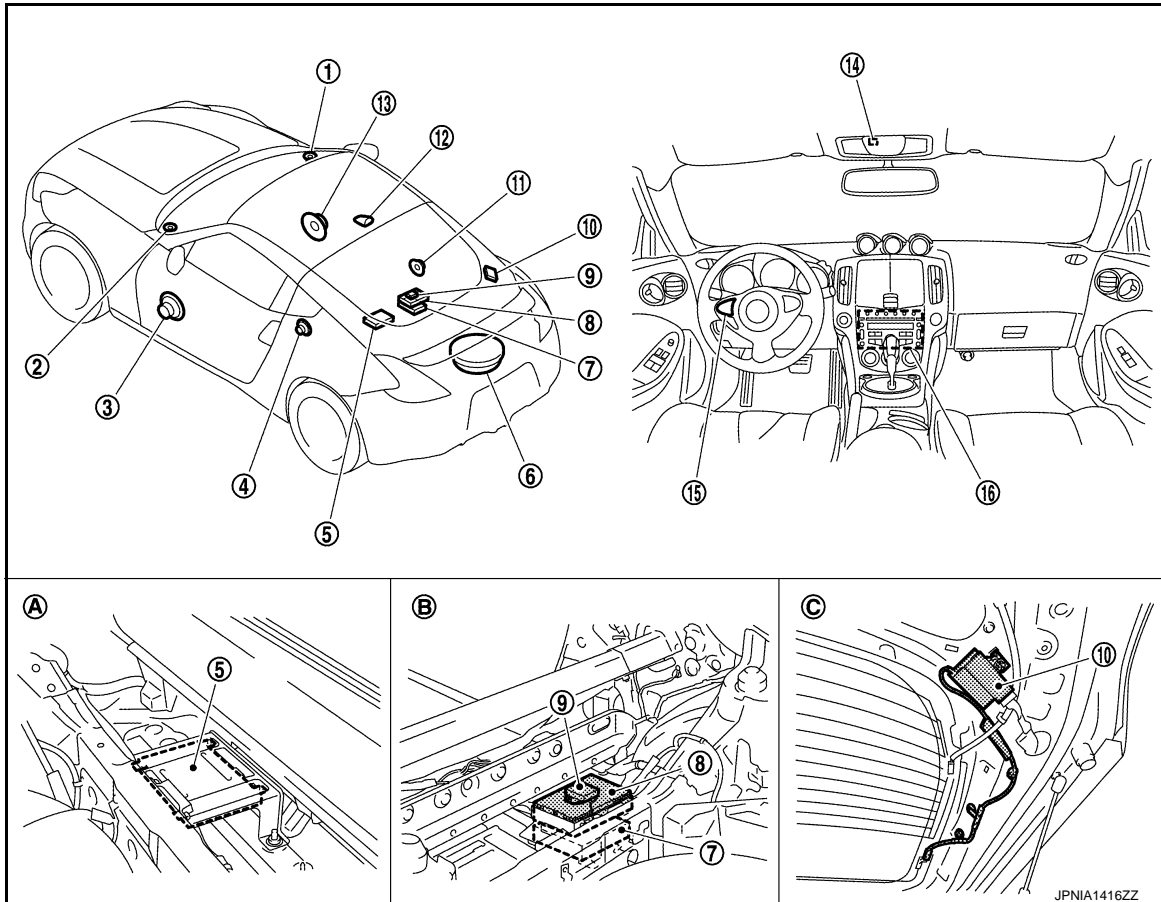
< SYSTEM DESCRIPTION >

- System operation is available only when the retractable soft top is closed. (roadster models)

## Component Parts Location

INFOID:000000005511715

### COUPE MODELS



- |                           |                      |                              |
|---------------------------|----------------------|------------------------------|
| 1. Tweeter RH             | 2. Tweeter LH        | 3. Front door speaker LH     |
| 4. Rear speaker LH        | 5. BOSE amp.         | 6. Woofer                    |
| 7. Satellite radio tuner* | 8. TEL adapter unit* | 9. TEL antenna*              |
| 10. Antenna amp.          | 11. Rear speaker RH  | 12. Satellite radio antenna* |
| 13. Front door speaker RH | 14. Microphone*      | 15. Steering switch          |
| 16. Audio unit            |                      |                              |
| A. Luggage side LH        | B. Luggage side RH   | C. Back door side RH         |

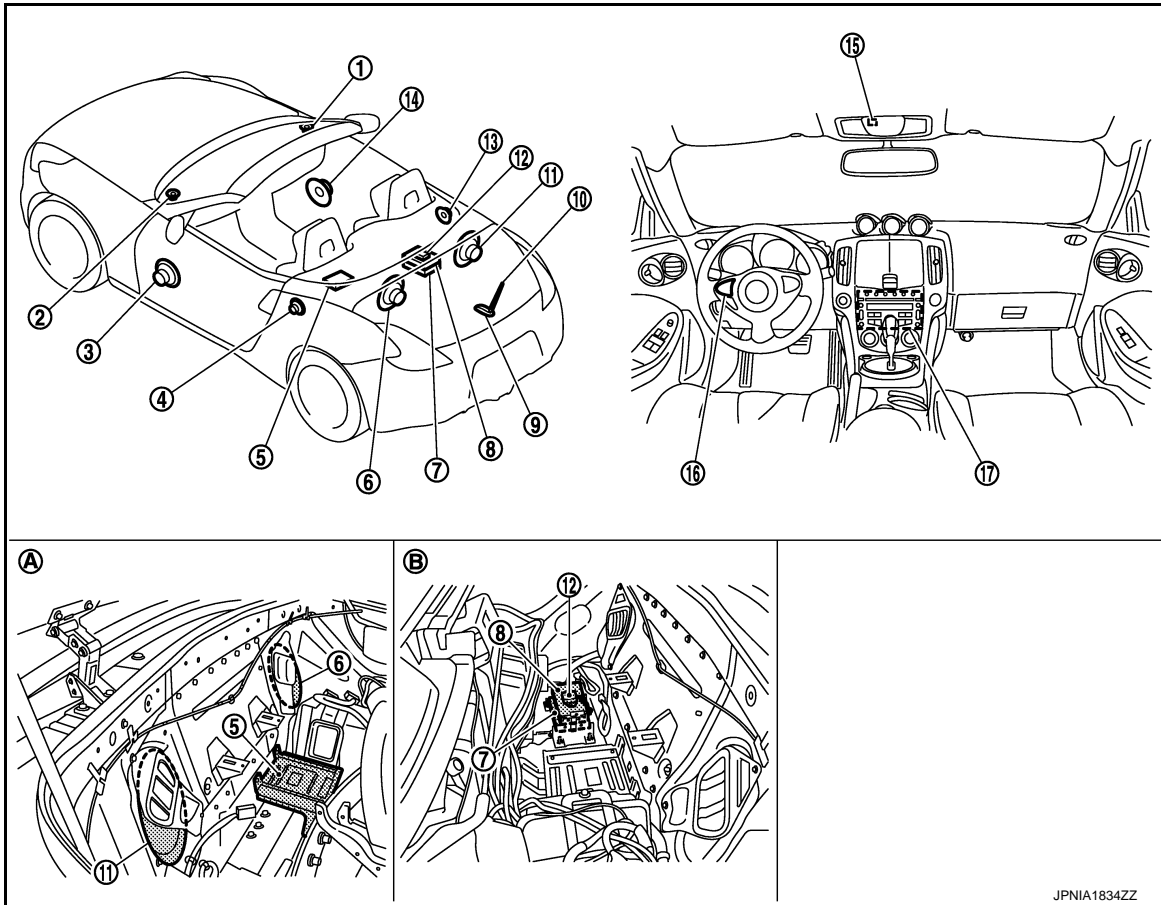
\*: Except for mexico models

# HANDS-FREE PHONE SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< SYSTEM DESCRIPTION >

ROADSTER MODELS



- |                          |                           |                          |
|--------------------------|---------------------------|--------------------------|
| 1. Tweeter RH            | 2. Tweeter LH             | 3. Front door speaker LH |
| 4. Rear speaker LH       | 5. BOSE amp.              | 6. Rear woofer LH        |
| 7. Satellite radio tuner | 8. TEL adapter unit       | 9. Antenna base          |
| 10. Rod antenna          | 11. Rear woofer RH        | 12. TEL antenna          |
| 13. Rear speaker RH      | 14. Front door speaker RH | 15. Microphone           |
| 16. Steering switch      | 17. Audio unit            |                          |
| A. Luggage side LH       | B. Luggage side RH        |                          |

## Component Description

INFOID:000000005511716

Part name	Description
Audio unit	<ul style="list-style-type: none"> <li>Receives telephone voice signal from TEL adapter unit.</li> <li>Sends telephone voice and voice guidance signals to BOSE amp.</li> <li>Audio unit and TEL adapter unit exchange data by AV communication, and control audio unit display.</li> <li>Receives the steering switch signal (operation signal) from the steering switch through TEL adapter unit..</li> </ul>
BOSE amp.	Inputs power (BOSE amp. ON) and sound signal from audio unit, and outputs sound signal to each speaker.
Front door speaker Tweeter	Receives telephone voice and voice guidance signals from BOSE amp.
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 audio unit through TEL adapter unit.</li> </ul>

# HANDS-FREE PHONE SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< SYSTEM DESCRIPTION >

Part name	Description
Microphone	<ul style="list-style-type: none"><li>• Uses when operating the hands-free phone.</li><li>• Outputs microphone signal (telephone voice signal) to the TEL adapter unit.</li><li>• The power (microphone power supply) is supplied from the TEL adapter unit.</li></ul>
TEL adapter unit	<ul style="list-style-type: none"><li>• Inputs the telephone voice signal from TEL antenna during reception and outputs into the audio unit.</li><li>• Inputs the telephone voice signal from microphone during speech recognition and outputs it to the TEL antenna.</li><li>• Input roof status signal from retractable soft top control unit. (roadster models)</li></ul>
TEL antenna	Connects with the portable telephone via Bluetooth™ communication and communicates the telephone voice signal.

# DIAGNOSIS SYSTEM (AUDIO UNIT)

[BOSE AUDIO WITHOUT NAVIGATION]

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (AUDIO UNIT)

### Diagnosis Description

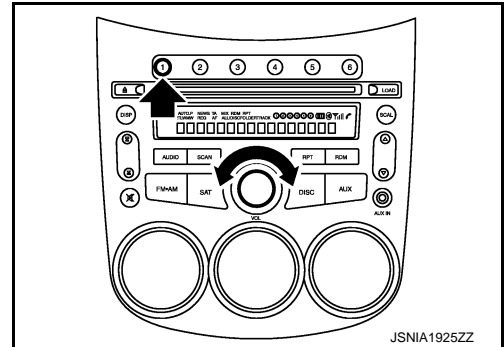
INFOID:000000005511717

Self-diagnosis mode can check the following items.

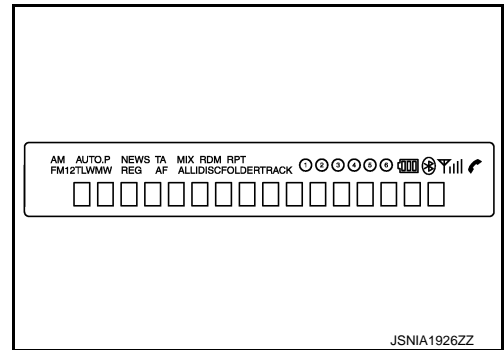
- Audio unit hardware/software versions
- Continuity of each speaker channel
- Continuity of each audio unit switch

### OPERATION PROCEDURE

1. Turn ignition switch to the ON position.
2. Turn the audio unit off.
3. While pressing the “1” button, turn the volume control dial clockwise or counterclockwise 30 clicks or more. When the self-diagnosis mode is started, a short beep will be heard.

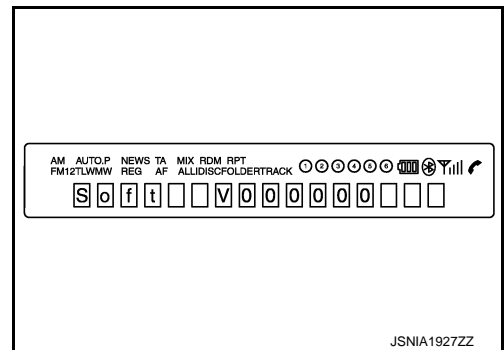


4. Initially, all display segments will be illuminated.



### Version Check

1. Press the “DISP” switch to enter version diagnostics. “Soft” (audio software version) is displayed.



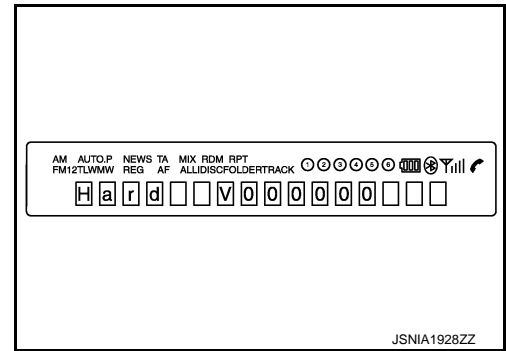
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# DIAGNOSIS SYSTEM (AUDIO UNIT)

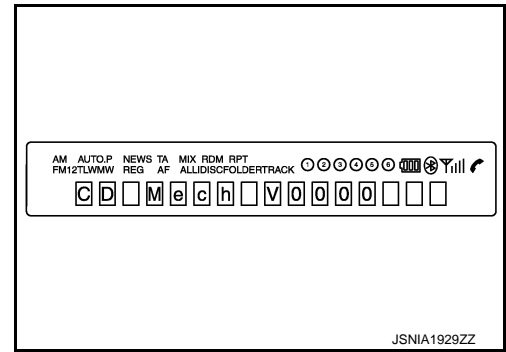
[BOSE AUDIO WITHOUT NAVIGATION]

< SYSTEM DESCRIPTION >

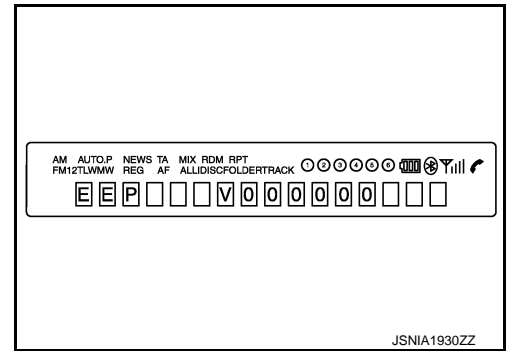
2. Press the "DISP" switch again to display the "Hard" (audio hardware version).



3. Press the "DISP" switch again to display the "CD Mech" (CD mechanism version).



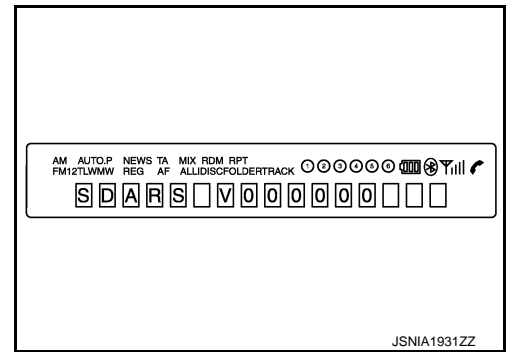
4. Press the "DISP" switch again to display the "EEP" (audio unit EEPROM version).



5. Press the "DISP" switch again to display the "SDARS" (satellite radio version).

**NOTE:**

Except for Mexico models



# DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITHOUT NAVIGATION]

## DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

### Diagnosis Description

INFOID:000000005511718

#### 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
STEP 1	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 audio screen.
STEP 2	Hands free phone system initialization	Hands free phone system initialization mode can perform the initialization of hands free phone system.
	Speaker adaptation data deleting	The speaker adaptation data deleting mode can delete the speaker adaptation data.

#### SELF-DIAGNOSIS RESULTS

Self-diagnosis mode reads out the self-diagnosis results and indicates DTC on the audio screen.

#### 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 (Audio screen)	Failure message	Possible causes
DTC 10000	Internal failure	TEL adapter unit
DTC 01000	Bluetooth antenna open	TEL antenna
DTC 00100	Bluetooth antenna shorted	
DTC 00010	Button ladder A is stuck	Steering switch
DTC 00001	Button ladder B is stuck	
DTC 00000	There are no failure records to report	—

#### The Details of Error Count

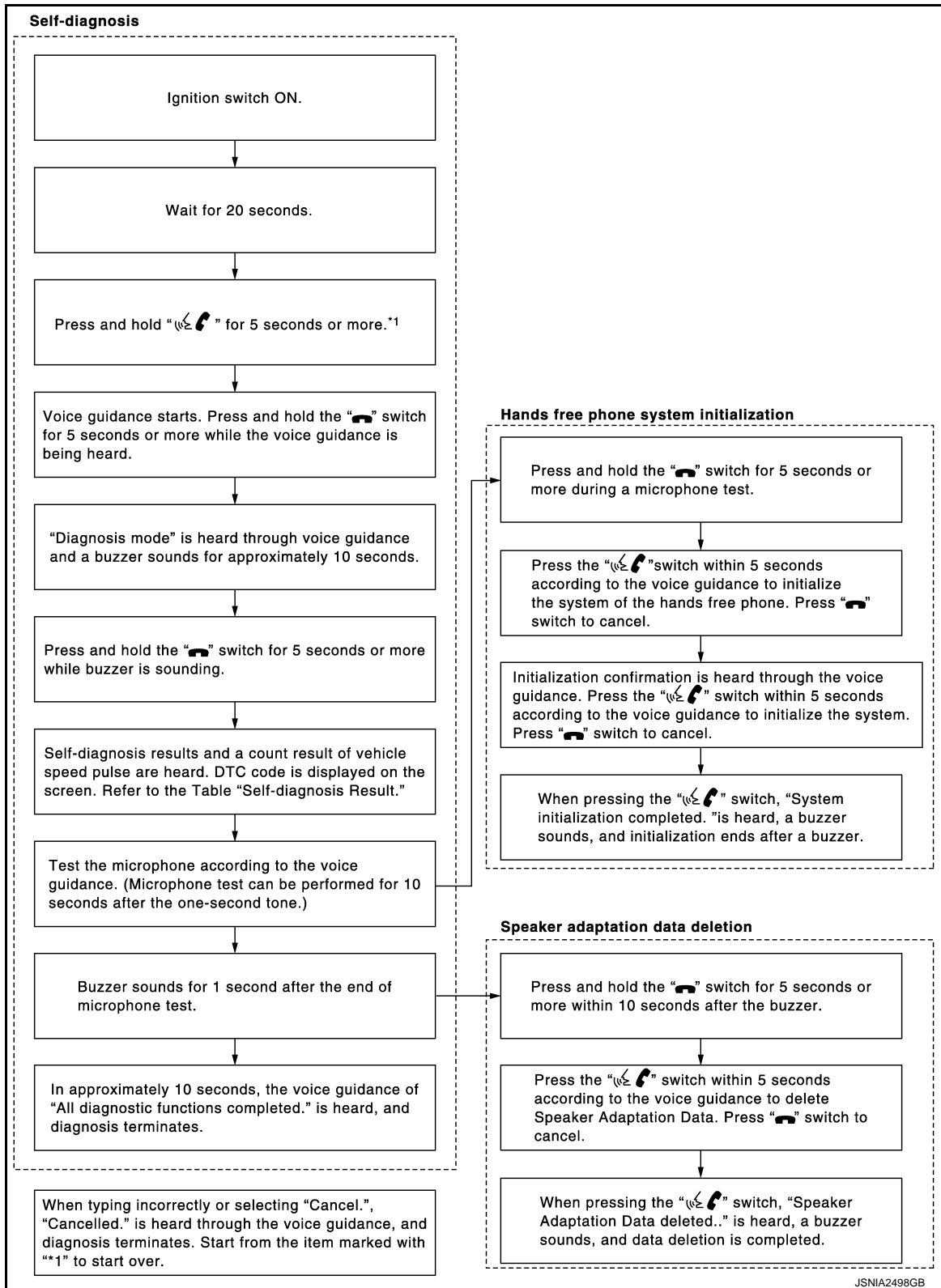
The error count guides "0" when the error occurs. The next time it counts up "1" if it is normal with the ignition switch ON. It continues the count up unless the initialization of hands free phone system is performed.

# DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

[BOSE AUDIO WITHOUT NAVIGATION]

< SYSTEM DESCRIPTION >

## FLOW CHART OF TROUBLE DIAGNOSIS





# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## DTC/CIRCUIT DIAGNOSIS

### POWER SUPPLY AND GROUND CIRCUIT AUDIO UNIT

#### AUDIO UNIT : Diagnosis Procedure

INFOID:000000005511719

#### 1.CHECK FUSE

Check that the following fuses of the audio unit are not blown.

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

Is inspection result OK?

YES >> GO TO 2.

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

#### 2.CHECK AUDIO UNIT POWER SUPPLY CIRCUIT

Check voltage between the audio unit and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Voltage
Battery power supply	M81	19	OFF	Battery voltage
ACC power supply		7	ACC	

Is inspection result OK?

YES >> INSPECTION END

NO >> Check harness between audio unit and fuse.

### BOSE AMP.

#### BOSE AMP. : Diagnosis Procedure

INFOID:000000005511720

#### 1.CHECK FUSE

Check that the following fuses of the BOSE amp. are not blown.

Power source	Fuse No.
Battery	8

Is inspection result OK?

YES >> GO TO 2.

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

#### 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between BOSE speaker amp harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Voltage
Battery power supply	B42	11	OFF	Battery voltage

Is inspection result OK?

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.

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# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B42	12	OFF	Existed

Is inspection result OK?

YES >> INSPECTION END

NO >> Repair harness or connector.

## SATELLITE RADIO TUNER

### SATELLITE RADIO TUNER : Diagnosis Procedure

INFOID:000000005511721

#### 1.CHECK FUSES

Check that the following fuses of the satellite radio tuner are not blown.

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

Is inspection result OK?

YES >> GO TO 2.

NO >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.

#### 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between the satellite radio tuner and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Voltage
Battery power supply	B236	12	OFF	Battery voltage
ACC power supply		16	ACC	

Is inspection result OK?

YES >> INSPECTION END

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

## TEL ADAPTER UNIT

### TEL ADAPTER UNIT : Diagnosis Procedure

INFOID:000000005511722

#### 1.CHECK FUSES

Check that the following fuses of the TEL adapter unit are not blown.

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

Is inspection result OK?

YES >> GO TO 2.

NO >> If fuse is blown, 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	Voltage
Battery power supply	B237	1	OFF	Battery voltage
ACC power supply		2	ACC	

Is inspection result OK?

YES >> GO TO 3.

NO >> Check harness between TEL adapter unit and fuse.

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## 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	OFF	Existed

Is inspection result OK?

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

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# STEERING SWITCH SIGNAL A CIRCUIT (STEERING SWITCH TO TEL ADAPTER UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## STEERING SWITCH SIGNAL A CIRCUIT (STEERING SWITCH TO TEL ADAPTER UNIT)

### Description

INFOID:000000005511723

- Transmits the steering switch signal to audio unit.
- Transmits the steering switch signal to audio unit through TEL adapter unit.

### Diagnosis Procedure

INFOID:000000005511724

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

1. Turn ignition switch OFF.
2. Disconnect TEL adapter unit connector and spiral cable connector.
3. Check continuity between TEL adapter unit harness connector and spiral cable harness connector.

TEL adapter unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
B237	12	M36	24	Existed

4. Check continuity between TEL adapter unit harness connector and ground.

TEL adapter unit		Ground	Continuity
Connector	Terminal		
B237	12		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. Refer to [SR-17, "Removal and Installation"](#).

#### 3. CHECK TEL ADAPTER UNIT VOLTAGE

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

(+)		(-)		Voltage (Approx.)
TEL adapter unit		TEL adapter unit		
Connector	Terminal	Connector	Terminal	
B237	12	B237	14	5.0 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace TEL adapter unit. Refer to [AV-199, "Removal and Installation"](#).

#### 4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-61, "Component Inspection"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch. Refer to [AV-198, "Removal and Installation"](#).

# STEERING SWITCH SIGNAL A CIRCUIT (STEERING SWITCH TO TEL ADAPTER UNIT)

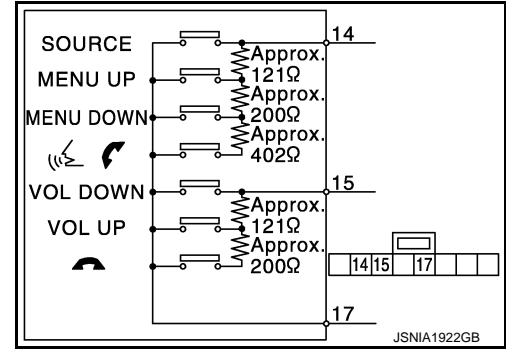
< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## Component Inspection

INFOID:000000005511725

Measure the resistance between the steering switch connector.



Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
14	17	☞ switch ON	709 – 737
		MENU DOWN switch ON	315 – 327
		MENU UP switch ON	119 – 123
		SOURCE switch ON	0
15	17	VOL DOWN switch ON	0
		VOL UP switch ON	119 – 123
		☞ switch ON	315 – 327

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# STEERING SWITCH SIGNAL B CIRCUIT (STEERING SWITCH TO TEL ADAPTER UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## STEERING SWITCH SIGNAL B CIRCUIT (STEERING SWITCH TO TEL ADAPTER UNIT)

### Description

INFOID:000000005511726

- Transmits the steering switch signal to audio unit.
- Transmits the steering switch signal to audio unit through TEL adapter unit.

### Diagnosis Procedure

INFOID:000000005511727

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

1. Turn ignition switch OFF.
2. Disconnect TEL adapter unit connector and spiral cable connector.
3. Check continuity between TEL adapter unit harness connector and spiral cable harness connector.

TEL adapter unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
B237	13	M36	31	Existed

4. Check continuity between TEL adapter unit harness connector and ground.

TEL adapter unit		Ground	Continuity
Connector	Terminal		
B237	13		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. Refer to [SR-17, "Removal and Installation"](#).

#### 3. CHECK TEL ADAPTER UNIT VOLTAGE

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

(+)		(-)		Voltage (Approx.)
TEL adapter unit		TEL adapter unit		
Connector	Terminal	Connector	Terminal	
B237	13	B237	14	5.0 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace TEL adapter unit. Refer to [AV-199, "Removal and Installation"](#).

#### 4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-63, "Component Inspection"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch. Refer to [AV-198, "Removal and Installation"](#).

# STEERING SWITCH SIGNAL B CIRCUIT (STEERING SWITCH TO TEL ADAPTER UNIT)

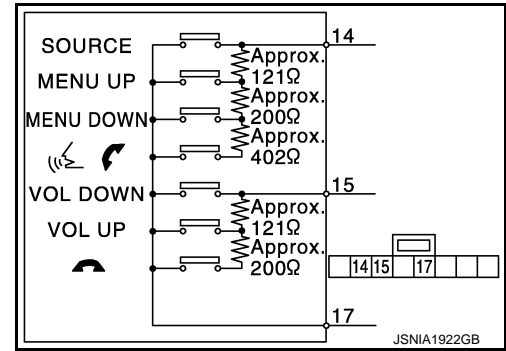
< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## Component Inspection

INFOID:000000005511728

Measure the resistance between the steering switch connector.



Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
14	17	⏻ switch ON	709 – 737
		MENU DOWN switch ON	315 – 327
		MENU UP switch ON	119 – 123
		SOURCE switch ON	0
15	17	VOL DOWN switch ON	0
		VOL UP switch ON	119 – 123
		⏻ switch ON	315 – 327

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# STEERING SWITCH SIGNAL GND CIRCUIT (STEERING SWITCH TO TEL ADAPTER UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## STEERING SWITCH SIGNAL GND CIRCUIT (STEERING SWITCH TO TEL ADAPTER UNIT)

### Description

INFOID:000000005511729

- Transmits the steering switch signal to audio unit.
- Transmits the steering switch signal to audio unit through TEL adapter unit.

### Diagnosis Procedure

INFOID:000000005511730

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

1. Turn ignition switch OFF.
2. Disconnect TEL adapter unit connector and spiral cable connector.
3. Check continuity between TEL adapter unit harness connector and spiral cable harness connector.

TEL adapter unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
B237	14	M36	33	Existed

4. Connect TEL adapter 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. Refer to [SR-17, "Removal and Installation"](#).

#### 3. CHECK GROUND CIRCUIT

1. Connect TEL adapter unit connector.
2. Check continuity between TEL adapter unit harness connector and ground.

TEL adapter unit		Ground	Continuity
Connector	Terminal		
B237	14		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace TEL adapter unit. Refer to [AV-199, "Removal and Installation"](#).

#### 4. CHECK STEERING SWITCH

Check steering switch. Refer to [AV-65, "Component Inspection"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch. Refer to [AV-198, "Removal and Installation"](#).



# STEERING SWITCH SIGNAL GND CIRCUIT (STEERING SWITCH TO TEL ADAPTER UNIT)

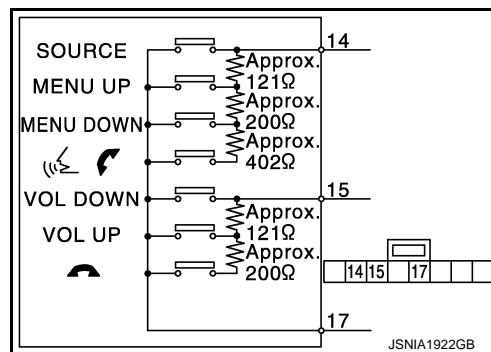
< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## Component Inspection

INFOID:000000005511731

Measure the resistance between the steering switch connector.



Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
14	17	☞ switch ON	709 – 737
		MENU DOWN switch ON	315 – 327
		MENU UP switch ON	119 – 123
		SOURCE switch ON	0
15	17	VOL DOWN switch ON	0
		VOL UP switch ON	119 – 123
		☞ switch ON	315 – 327

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# STEERING SWITCH SIGNAL A CIRCUIT (TEL ADAPTER UNIT TO AUDIO UNIT) [BOSE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

## STEERING SWITCH SIGNAL A CIRCUIT (TEL ADAPTER UNIT TO AUDIO UNIT)

### Description

INFOID:000000005511732

- Transmits the steering switch signal to audio unit.
- Transmits the steering switch signal to audio unit through TEL adapter unit.

### Diagnosis Procedure

INFOID:000000005511733

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

1. Turn ignition switch OFF.
2. Disconnect audio unit connector and TEL adapter unit connector.
3. Check continuity between audio unit harness connector and TEL adapter unit harness connector.

Audio unit		TEL adapter unit		Continuity
Connector	Terminal	Connector	Terminal	
M81	6	B237	17	Existed

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

Audio 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 TEL ADAPTER UNIT POWER SUPPLY

Check TEL adapter unit power supply. Refer to [AV-58, "TEL ADAPTER UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Replace TEL adapter unit. Refer to [AV-199, "Removal and Installation"](#).

#### 3. CHECK AUDIO UNIT VOLTAGE

1. Connect audio unit connector and TEL adapter unit connector.
2. Turn ignition switch ON.
3. Check voltage between audio unit harness connector.

(+)		(-)		Voltage (Approx.)
Audio unit		Audio unit		
Connector	Terminal	Connector	Terminal	
M81	6	M81	15	5.0 V

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Replace audio unit. Refer to [AV-187, "Removal and Installation"](#).

#### 4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-67, "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace steering switch. Refer to [AV-198, "Removal and Installation"](#).

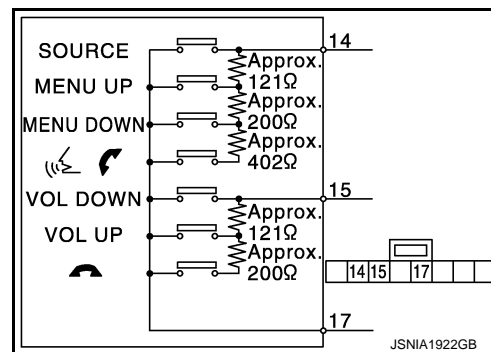
# STEERING SWITCH SIGNAL A CIRCUIT (TEL ADAPTER UNIT TO AUDIO UNIT) [BOSE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

## Component Inspection

INFOID:000000005511734

Measure the resistance between the steering switch connector.



Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
14	17	☞ switch ON	709 – 737
		MENU DOWN switch ON	315 – 327
		MENU UP switch ON	119 – 123
		SOURCE switch ON	0
15	17	VOL DOWN switch ON	0
		VOL UP switch ON	119 – 123
		☞ switch ON	315 – 327

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# STEERING SWITCH SIGNAL B CIRCUIT (TEL ADAPTER UNIT TO AUDIO UNIT) [BOSE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

## STEERING SWITCH SIGNAL B CIRCUIT (TEL ADAPTER UNIT TO AUDIO UNIT)

### Description

INFOID:000000005511735

- Transmits the steering switch signal to audio unit.
- Transmits the steering switch signal to audio unit through TEL adapter unit.

### Diagnosis Procedure

INFOID:000000005511736

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

1. Turn ignition switch OFF.
2. Disconnect audio unit connector and TEL adapter unit connector.
3. Check continuity between audio unit harness connector and TEL adapter unit harness connector.

Audio unit		TEL adapter unit		Continuity
Connector	Terminal	Connector	Terminal	
M81	16	B237	18	Existed

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

Audio 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 TEL ADAPTER UNIT POWER SUPPLY

Check TEL adapter unit power supply.

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Replace TEL adapter unit. Refer to [AV-199, "Removal and Installation"](#).

#### 3. CHECK AUDIO UNIT VOLTAGE

1. Connect audio unit connector and TEL adapter unit connector.
2. Turn ignition switch ON.
3. Check voltage between audio unit harness connector.

(+)		(-)		Voltage (Approx.)
Audio unit		Audio unit		
Connector	Terminal	Connector	Terminal	
M81	16	M81	15	5.0 V

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Replace audio unit. Refer to [AV-187, "Removal and Installation"](#).

#### 4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-69, "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace steering switch. Refer to [AV-198, "Removal and Installation"](#).

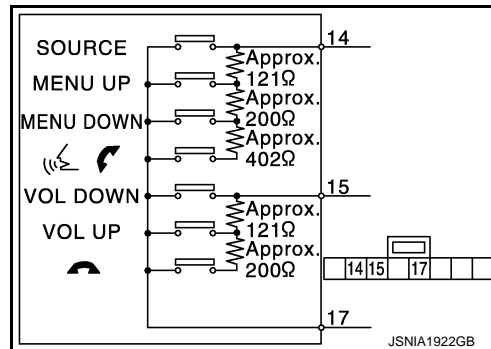
# STEERING SWITCH SIGNAL B CIRCUIT (TEL ADAPTER UNIT TO AUDIO UNIT) [BOSE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

INFOID:000000005511737

## Component Inspection

Measure the resistance between the steering switch connector.



Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
14	17	☞ switch ON	709 – 737
		MENU DOWN switch ON	315 – 327
		MENU UP switch ON	119 – 123
		SOURCE switch ON	0
15	17	VOL DOWN switch ON	0
		VOL UP switch ON	119 – 123
		☞ switch ON	315 – 327

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# STEERING SWITCH SIGNAL GND CIRCUIT (TEL ADAPTER UNIT TO AUDIO UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## STEERING SWITCH SIGNAL GND CIRCUIT (TEL ADAPTER UNIT TO AUDIO UNIT)

### Description

INFOID:000000005511738

- Transmits the steering switch signal to audio unit.
- Transmits the steering switch signal to audio unit through TEL adapter unit.

### Diagnosis Procedure

INFOID:000000005511739

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

1. Turn ignition switch OFF.
2. Disconnect audio unit connector and TEL adapter unit connector.
3. Check continuity between audio unit harness connector and TEL adapter unit harness connector.

Audio unit		TEL adapter unit		Continuity
Connector	Terminal	Connector	Terminal	
M81	15	B237	19	Existed

Is the inspection result normal?

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

#### 2. CHECK GROUND CIRCUIT

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

Audio unit		Ground	Continuity
Connector	Terminal		
M81	15		Existed

Is the inspection result normal?

- YES >> GO TO 3.  
 NO >> Replace audio unit. Refer to [AV-187, "Removal and Installation"](#).

#### 3. CHECK STEERING SWITCH

Check steering switch. Refer to [AV-70, "Component Inspection"](#).

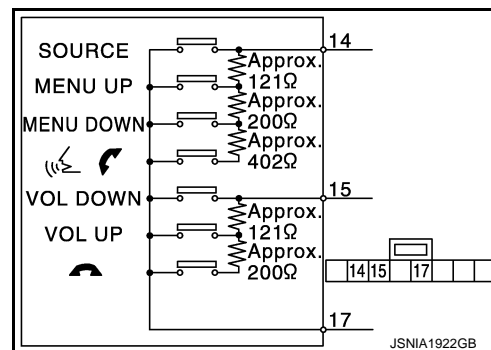
Is the inspection result normal?

- YES >> INSPECTION END  
 NO >> Replace steering switch. Refer to [AV-198, "Removal and Installation"](#).

### Component Inspection

INFOID:000000005511740

Measure the resistance between the steering switch connector.





# STEERING SWITCH SIGNAL GND CIRCUIT (TEL ADAPTER UNIT TO AUDIO UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
14	17	 switch ON	709 – 737
		MENU DOWN switch ON	315 – 327
		MENU UP switch ON	119 – 123
		SOURCE switch ON	0
15	17	VOL DOWN switch ON	0
		VOL UP switch ON	119 – 123
		 switch ON	315 – 327

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# STEERING SWITCH SIGNAL A CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## STEERING SWITCH SIGNAL A CIRCUIT

### Description

INFOID:000000005548916

Transmits the steering switch signal to audio unit.

### Diagnosis Procedure

INFOID:000000005548917

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

1. Turn ignition switch OFF.
2. Disconnect audio unit connector and spiral cable connector.
3. Check continuity between audio unit harness connector and spiral cable harness connector.

Audio unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
M81	6	M36	24	Existed

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

Audio 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. Refer to [SR-17. "Removal and Installation"](#).

#### 3.CHECK AUDIO UNIT VOLTAGE

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

(+)		(-)		Voltage (Approx.)
Audio unit		Audio unit		
Connector	Terminal	Connector	Terminal	
M81	6	M81	15	5.0 V

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Replace audio unit. Refer to [AV-187. "Removal and Installation"](#).

#### 4.CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-73. "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace steering switch. Refer to [AV-198. "Removal and Installation"](#).



# STEERING SWITCH SIGNAL A CIRCUIT

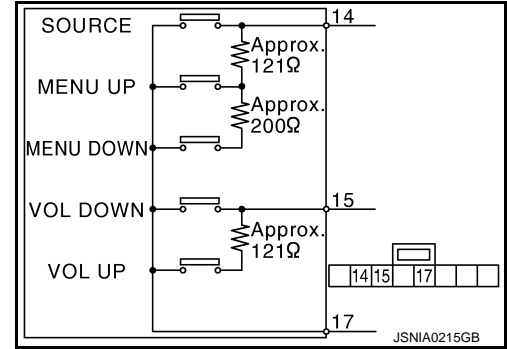
< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

INFOID:00000000548918

## Component Inspection

Measure the resistance between the steering switch connector.



Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
14	17	MENU DOWN switch ON	315 – 327
		MENU UP switch ON	119 – 123
		SOURCE switch ON	0
15	17	VOL UP switch ON	119 – 123
		VOL DOWN switch ON	0

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# STEERING SWITCH SIGNAL B CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## STEERING SWITCH SIGNAL B CIRCUIT

### Description

INFOID:000000005548925

Transmits the steering switch signal to audio unit.

### Diagnosis Procedure

INFOID:000000005548920

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

1. Turn ignition switch OFF.
2. Disconnect audio unit connector and spiral cable connector.
3. Check continuity between audio unit harness connector and spiral cable harness connector.

Audio unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
M81	16	M36	31	Existed

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

Audio 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. Refer to [SR-17. "Removal and Installation"](#).

#### 3.CHECK AUDIO UNIT VOLTAGE

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

(+)		(-)		Voltage (Approx.)
Audio unit		Audio unit		
Connector	Terminal	Connector	Terminal	
M80	16	M80	15	5.0 V

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Replace audio unit. Refer to [AV-187. "Removal and Installation"](#).

#### 4.CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-75. "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace steering switch. Refer to [AV-198. "Removal and Installation"](#).

# STEERING SWITCH SIGNAL B CIRCUIT

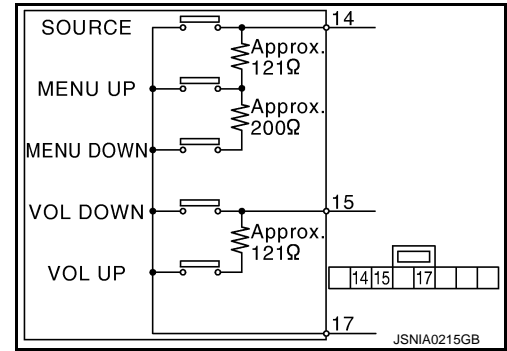
< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

INFOID:00000000548927

## Component Inspection

Measure the resistance between the steering switch connector.



Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
14	17	MENU DOWN switch ON	315 – 327
		MENU UP switch ON	119 – 123
		SOURCE switch ON	0
15	17	VOL UP switch ON	119 – 123
		VOL DOWN switch ON	0

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# STEERING SWITCH SIGNAL GND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## STEERING SWITCH SIGNAL GND CIRCUIT

### Description

INFOID:000000005548926

Transmits the steering switch signal to audio unit.

### Diagnosis Procedure

INFOID:000000005548923

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

1. Turn ignition switch OFF.
2. Disconnect audio unit connector and spiral cable connector.
3. Check continuity between audio unit harness connector and spiral cable harness connector.

Audio unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
M81	15	M36	33	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. Refer to [SR-17, "Removal and Installation"](#).

#### 3. CHECK GROUND CIRCUIT

1. Connect audio unit connector and spiral cable connector.
2. Turn ignition switch ON.
3. Check continuity between audio unit harness connector.

Audio unit		Ground	Continuity
Connector	Terminal		
M81	15		Existed

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Replace audio unit. Refer to [AV-187, "Removal and Installation"](#).

#### 4. CHECK STEERING SWITCH

Check steering switch. Refer to [AV-77, "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace steering switch. Refer to [AV-198, "Removal and Installation"](#).

# STEERING SWITCH SIGNAL GND CIRCUIT

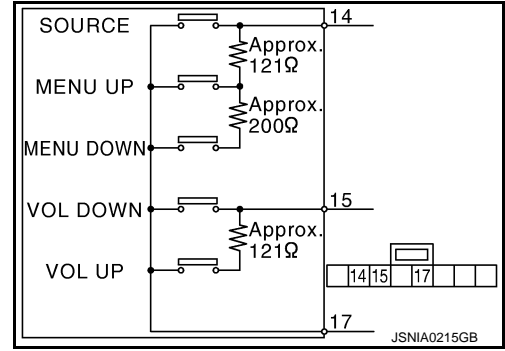
< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## Component Inspection

INFOID:00000000548928

Measure the resistance between the steering switch connector.



Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
14	17	MENU DOWN switch ON	315 – 327
		MENU UP switch ON	119 – 123
		SOURCE switch ON	0
15	17	VOL UP switch ON	119 – 123
		VOL DOWN switch ON	0

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# COMMUNICATION SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## COMMUNICATION SIGNAL CIRCUIT

### Description

INFOID:000000005511741

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

### Diagnosis Procedure

INFOID:000000005511742

#### 1. CHECK CONTINUITY COMMUNICATION SIGNAL (AUDIO-SAT) CIRCUIT

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

Satellite radio tuner		Audio unit		Continuity
Connector	Terminal	Connector	Terminal	
B236	9	M83	39	Existed
	10		40	Existed

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

Satellite radio tuner		Ground	Continuity
Connector	Terminal		
B236	9		Not existed
	10		

#### Is inspection result OK?

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

#### 2. CHECK AUDIO UNIT

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

Audio unit		Ground	Voltage (Approx.)
Connector	Terminal		
M83	39		4.0 V

#### Is inspection result OK?

- YES >> GO TO 3.  
NO >> Replace audio unit. Refer to [AV-187, "Removal and Installation"](#).

#### 3. CHECK SATELLITE RADIO TUNER

1. Turn ignition switch OFF.
2. Disconnect audio unit connector, and connect satellite radio tuner connector.
3. Turn ignition switch ON.
4. Check voltage between satellite radio tuner harness connector and ground.

Satellite radio tuner		Ground	Voltage (Approx)
Connector	Terminal		
B236	10		7.5 V

#### Is inspection result OK?

- YES >> GO TO 4.  
NO >> Replace satellite radio tuner. Refer to [AV-196, "Removal and Installation"](#).

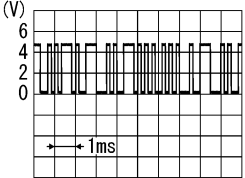
# COMMUNICATION SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## 4. CHECK COMMUNICATION SIGNAL (SAT-AUDIO)

1. Turn ignition switch OFF.
2. Connect audio unit connector.
3. Turn ignition switch ON.
4. 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.	 <p style="text-align: right; font-size: small;">PKIB5039J</p>

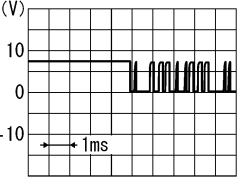
Is inspection result OK?

YES >> GO TO 5.

NO >> Replace satellite radio tuner. Refer to [AV-196, "Removal and Installation"](#).

## 5. CHECK COMMUNICATION SIGNAL (AUDIO-SAT)

Check signal between audio unit harness connector and ground.

Audio unit		Condition	Reference value
Connector	Terminal		
B83	40	Ground  When satellite radio mode is selected.	 <p style="text-align: right; font-size: small;">SKIA9301J</p>

Is inspection result OK?

YES >> INSPECTION END

NO >> Replace audio unit. Refer to [AV-187, "Removal and Installation"](#).

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# REQUEST SIGNAL CIRCUIT (SAT TO AUDIO)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## REQUEST SIGNAL CIRCUIT (SAT TO AUDIO)

### Description

INFOID:000000005511743

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

### Diagnosis Procedure

INFOID:000000005511744

#### 1. CHECK CONTINUITY REQUEST SIGNAL CIRCUIT

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

Satellite radio tuner		Audio unit		Continuity
Connector	Terminal	Connector	Terminal	
B236	8	M83	38	Existed

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

Satellite radio tuner		Ground	Continuity
Connector	Terminal		
B236	8		Not existed

Is inspection result OK?

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

#### 2. CHECK AUDIO UNIT

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

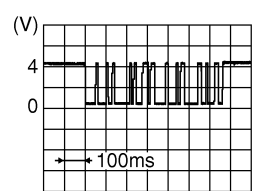
Audio unit		Ground	Voltage (Approx.)
Connector	Terminal		
M83	38		4.0 V

Is inspection result OK?

- YES >> GO TO 3.  
NO >> Replace audio unit. Refer to [AV-187, "Removal and Installation"](#).

#### 3. CHECK CONTINUITY REQUEST SIGNAL

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

Satellite radio tuner		Ground	Condition	Reference value
Connector	Terminal			
B236	8		When satellite radio mode is selected.	 <p>JSNIA0675ZZ</p>



# REQUEST SIGNAL CIRCUIT (SAT TO AUDIO)

[BOSE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

Is inspection result OK?

YES >> INSPECTION END

NO >> Replace satellite radio tuner. Refer to [AV-196. "Removal and Installation"](#).

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# BOSE AMP. ON SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AMP. ON SIGNAL CIRCUIT

### Description

INFOID:000000005511745

When the audio system is turned on, a voltage signal is supplied from the audio unit to the BOSE amp. When this signal is received, the BOSE amp. will turn on.

### Diagnosis Procedure

INFOID:000000005511746

#### 1. CHECK CONTINUITY AMP. ON SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect audio unit connector and BOSE amp. connector.
3. Check continuity between audio unit harness connector and BOSE amp. harness connector.

Audio unit		BOSE amp.		Continuity
Connector	Terminal	Connector	Terminal	
M81	1	B41	31	Existed

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

Audio unit		Ground	Continuity
Connector	Terminal		
M81	1		Not existed

Is inspection result OK?

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

#### 2. CHECK VOLTAGE AMP. ON SIGNAL

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

Audio unit		Ground	Voltage (Approx.)
Connector	Terminal		
M81	1		12.0 V

Is inspection result OK?

- YES >> Replace BOSE amp. Refer to [AV-193, "COUPE : Removal and Installation"](#) (coupe models), [AV-193, "ROADSTER : Removal and Installation"](#) (roadster models).  
NO >> Replace audio unit. Refer to [AV-187, "Removal and Installation"](#).

# WOOFER AMP. ON SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## WOOFER AMP. ON SIGNAL CIRCUIT

### Description

INFOID:000000005511747

When the audio system is turned on, a voltage signal is supplied from the BOSE amp. to the woofer. When this signal is received, the woofer will turn on.

### Diagnosis Procedure

INFOID:000000005511748

#### 1. CHECK CONTINUITY WOOFER AMP. ON SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BOSE amp. connector and woofer connector.
3. Check continuity between BOSE amp. harness connector and woofer harness connector.

BOSE amp.		Woofer		Continuity
Connector	Terminal	Connector	Terminal	
B41	25	B43	4	Existed

4. Check continuity between BOSE amp. harness connector and ground.

BOSE amp.		Ground	Continuity
Connector	Terminal		
B41	25		Not existed

Is inspection result OK?

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

#### 2. CHECK VOLTAGE AMP. ON SIGNAL

1. Connect BOSE amp. connector
2. Turn ignition switch ON.
3. Check voltage between BOSE amp. harness connector and ground.

BOSE amp.		Ground	Voltage (Approx.)
Connector	Terminal		
B41	25		12.0 V

Is inspection result OK?

- YES >> Replace woofer. Refer to [AV-191. "Removal and Installation"](#).  
NO >> Replace BOSE amp. Refer to [AV-193. "COUPE : Removal and Installation"](#) (coupe models), [AV-193. "ROADSTER : Removal and Installation"](#) (roadster models).

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# MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## MICROPHONE SIGNAL CIRCUIT

### Description

INFOID:000000005511749

TEL adapter unit supplies power to microphone. The microphone transmits the sound voice to the TEL adapter unit.

### Diagnosis Procedure

INFOID:000000005511750

#### 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	Terminal	Connector	Terminal	
B237	7	R5	1	Existed
	8		2	
	29		4	

4. Check continuity between TEL adapter unit harness connector and ground.

TEL adapter unit		Ground	Continuity
Connector	Terminal		
B237	7		Not existed
	29		

#### Is inspection result OK?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2. CHECK MICROPHONE POWER SUPPLY

1. Connect TEL adapter unit connector.
2. Turn ignition switch ON.
3. Check voltage between TEL adapter unit harness connector and ground.

TEL adapter unit		Ground	Voltage (Approx.)
Connector	Terminal		
B237	29		5.0 V

#### Is inspection result OK?

YES >> GO TO 3.

NO >> Replace TEL adapter unit. Refer to [AV-199, "Removal and Installation"](#).

#### 3. CHECK MICROPHONE SIGNAL

1. Turn ignition switch OFF.
2. Connect microphone connector.
3. Turn ignition switch ON.
4. Check signal between TEL adapter unit harness connector.

# MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

TEL adapter unit		TEL adapter unit		Condition	Reference value
Connector	Terminal	Connector	Terminal		
B237	7	B237	8	Give a voice.	

Is inspection result OK?

YES >> INSPECTION END

NO >> Replace microphone. Refer to [AV-200, "Removal and Installation"](#).

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# TELEPHONE ON SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## TELEPHONE ON SIGNAL CIRCUIT

### Description

INFOID:000000005511751

When telephone is being used. TEL adapter unit transmits telephone ON signal to audio unit.

### Diagnosis Procedure

INFOID:000000005511752

#### 1. CHECK CONTINUITY TELEPHONE ON SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect TEL adapter unit connector and audio unit connector.
3. Check continuity between TEL adapter unit harness connector and audio unit harness connector.

TEL adapter unit		Audio unit		Continuity
Connector	Terminal	Connector	Terminal	
B237	11	M82	28	Existed

4. Check continuity between TEL adapter unit harness connector and ground.

TEL adapter unit		Ground	Continuity
Connector	Terminal		
B237	11		Not existed

#### Is inspection result OK?

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

#### 2. CHECK TELEPHONE ON SIGNAL

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

Audio unit		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M82	28		While using hands-free phone system	0 V
			While not using hands-free phone system	5.0 V

#### Is inspection result OK?

- YES >> INSPECTION END  
NO >> Replace audio unit. Refer to [AV-187. "Removal and Installation"](#).

# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## ECU DIAGNOSIS INFORMATION

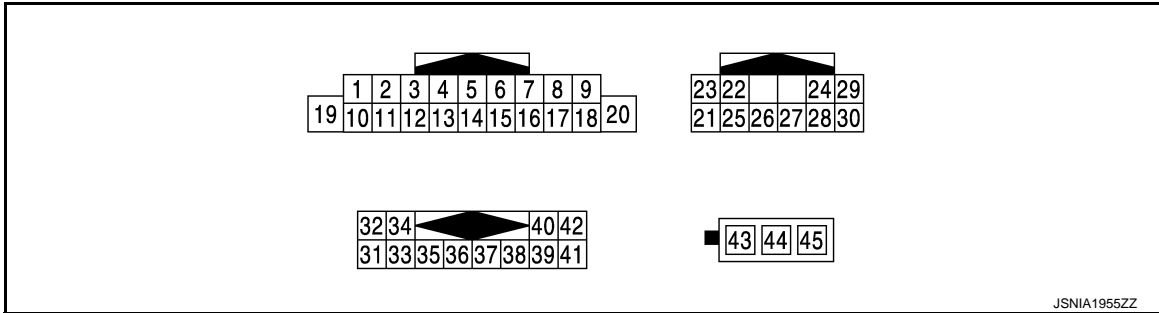
### AUDIO UNIT

EXCEPT FOR MEXICO

EXCEPT FOR MEXICO : Reference Value

INFOID:000000005511753

### TERMINAL LAYOUT



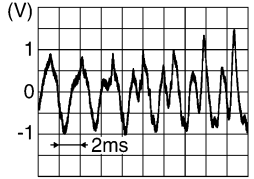
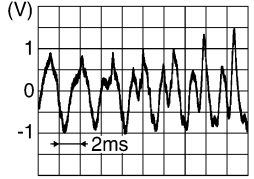

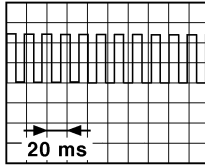
### PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (V)	Ground	BOSE amp. ON signal	Output	Ignition switch ON	—	12.0 V
2 (LG) <sup>*1</sup> (P) <sup>*2</sup>	3 (V) <sup>*1</sup> (L) <sup>*2</sup>	Sound signal front speaker LH	Output	Ignition switch ON	Sound signal output	<p style="text-align: right;">SKIB3609E</p>
4 (L) <sup>*1</sup> (V) <sup>*2</sup>	5 (R) <sup>*1</sup> (SB) <sup>*2</sup>	Sound signal rear speaker LH	Output	Ignition switch ON	Sound signal output	<p style="text-align: right;">SKIB3609E</p>
6 (W)	15 (B)	Steering switch signal A	Input	Ignition switch ON	Keep pressing SOURCE switch	0 V
					Keep pressing MENU UP switch	1.25 V
					Keep pressing MENU DOWN switch	2.5 V
					Keep pressing  switch	3.7 V
					Except for above	5.0 V
7 (L)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage

# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

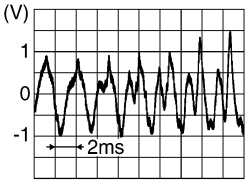
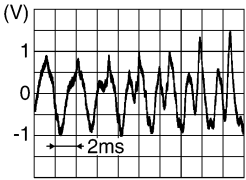
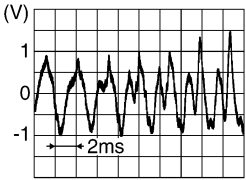
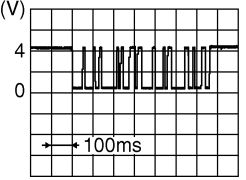
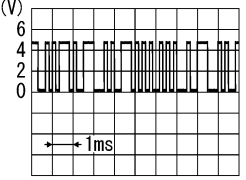
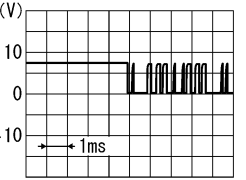
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
9 (R)	8 (W) <sup>*1</sup> (O) <sup>*2</sup>	Illumination signal	Input	Ignition switch OFF	Lighting switch is OFF.	0 V
					Lighting switch is 1ST or 2ND.	12.0 V
10	—	Shield	—	—	—	—
11 (L) <sup>*1</sup> (R) <sup>*2</sup>	12 (P) <sup>*1</sup> (G) <sup>*2</sup>	Sound signal front speaker RH	Output	Ignition switch ON	Sound signal output	 SKIB3609E
13 (R) <sup>*1</sup> (BR) <sup>*2</sup>	14 (G) <sup>*1</sup> (Y) <sup>*2</sup>	Sound signal rear speaker RH	Output	Ignition switch ON	Sound signal output	 SKIB3609E
16 (GR)	15 (B)	Steering switch signal B	Input	Ignition switch ON	Keep pressing VOL DOWN switch	0 V
					Keep pressing VOL UP switch	1.25 V
					Keep pressing  switch	2.5 V
					Except for above.	5.0 V
18 (Y)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is approx. 40 km/h (25MPH)	<p><b>NOTE:</b> The maximum voltage varies depending on the specification (destination unit).</p>  JSNIA0012GB
19 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
20	—	Shield	—	—	—	—
21 (R)	—	AV communication signal (H)	—	Input/ Output	—	—
22 (G)	—	AV communication signal (L)	—	Input/ Output	—	—
25	—	Shield	—	—	—	—



# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
26 (LG) <sup>*1</sup> (BR) <sup>*2</sup>	27 (V) <sup>*1</sup> (Y) <sup>*2</sup>	Sound signal (Telephone voice, tele- phone guidance)	Input	Ignition switch ON	Give a voice	 SKIB3609E
28 (O) <sup>*1</sup> (G) <sup>*2</sup>	Ground	Telephone ON signal	Input	Ignition switch ON	While using hands-free phone system	0 V
					While not using hands-free phone system	5.0 V
32 (B)	31 (W)	Satellite radio sound signal LH	Input	Ignition switch ON	When satellite radio mode is selected	 SKIB3609E
34 (G)	33 (R)	Satellite radio sound signal RH	Input	Ignition switch ON	When satellite radio mode is selected	 SKIB3609E
35	—	Shield	—	—	—	—
36	—	Shield	—	—	—	—
38 (P)	Ground	Request signal (SAT TO AUDIO)	Input	Ignition switch ON	When satellite radio mode is selected	 JSNIA0675ZZ
39 (G)	Ground	Communication signal (SAT-AUDIO)	Input	Ignition switch ON	When satellite radio mode is selected	 PKIB5039J
40 (L)	Ground	Communication signal (AUDIO-SAT)	Output	Ignition switch ON	When satellite radio mode is selected	 SKIA9301J

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# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

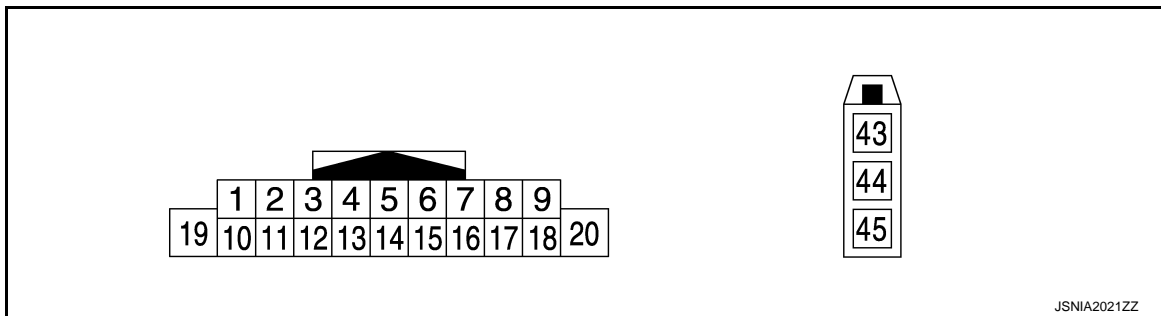
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
43	Ground	Antenna amp. ON signal	Output	Ignition switch ON	—	12.0 V
44	—	Antenna signal	Input	—	—	—

\*1: Coupe models  
 \*2: Roadster models  
**FOR MEXICO**

**FOR MEXICO : Reference Value**

INFOID:000000005548908

## TERMINAL LAYOUT



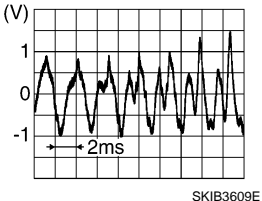
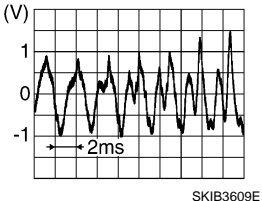
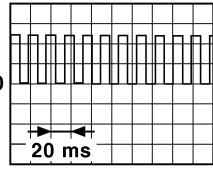
## PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (V)	Ground	BOSE amp. ON signal	Output	Ignition switch ON	—	12.0 V
2 (LG)	3 (V)	Sound signal front speaker LH	Output	Ignition switch ON	Sound signal output	<p style="text-align: right;"><small>SKIB3609E</small></p>
4 (L)	5 (R)	Sound signal rear speaker LH	Output	Ignition switch ON	Sound signal output	<p style="text-align: right;"><small>SKIB3609E</small></p>

# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

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 MENU UP switch	1.0 V
					Keep pressing MENU DOWN switch	2.0 V
					Except for above	5.0 V
7 (L)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
9 (R)	8 (W)	Illumination signal	Input	Ignition switch OFF	Lighting switch is OFF.	0 V
					Lighting switch is 1ST or 2ND.	12.0 V
10	—	Shield	—	—	—	—
11 (L)	12 (P)	Sound signal front speaker RH	Output	Ignition switch ON	Sound signal output	
13 (R)	14 (G)	Sound signal rear speaker RH	Output	Ignition switch ON	Sound signal output	
16 (L)	15 (B)	Steering switch signal B	Input	Ignition switch ON	Keep pressing VOL DOWN switch	0 V
					Keep pressing VOL UP switch	1.0 V
					Except for above	5.0 V
18 (Y)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is approx. 40 km/h (25MPH)	<p><b>NOTE:</b> The maximum voltage varies depending on the specification (destination unit).</p> 
19 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
20	—	Shield	—	—	—	—

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# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
43	Ground	Antenna amp. ON signal	Output	Ignition switch ON	—	12.0 V
44	—	Antenna signal	Input	—	—	—

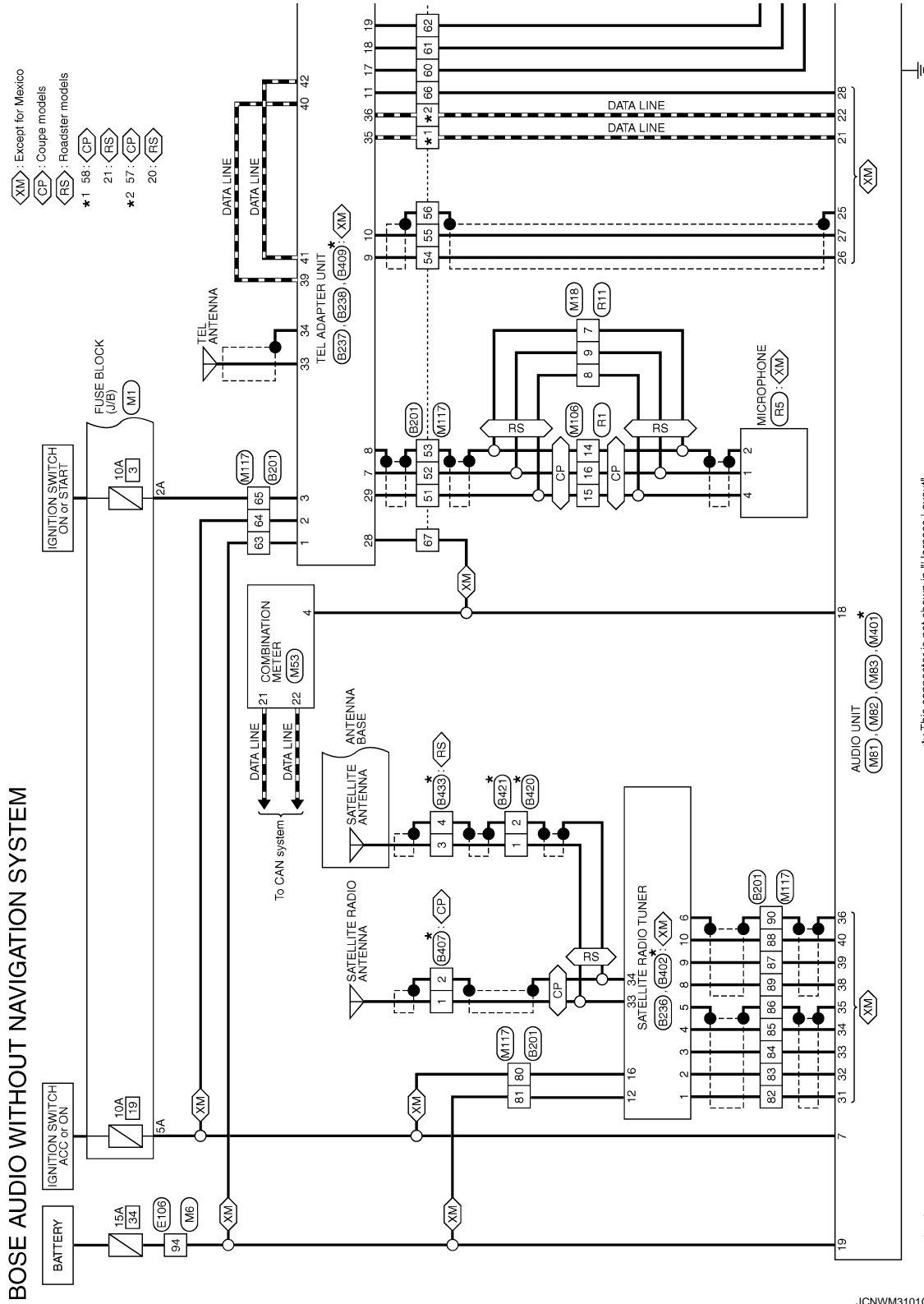
# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

INFOID:000000005511754



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

2009/07/10

JCNWM3101GB

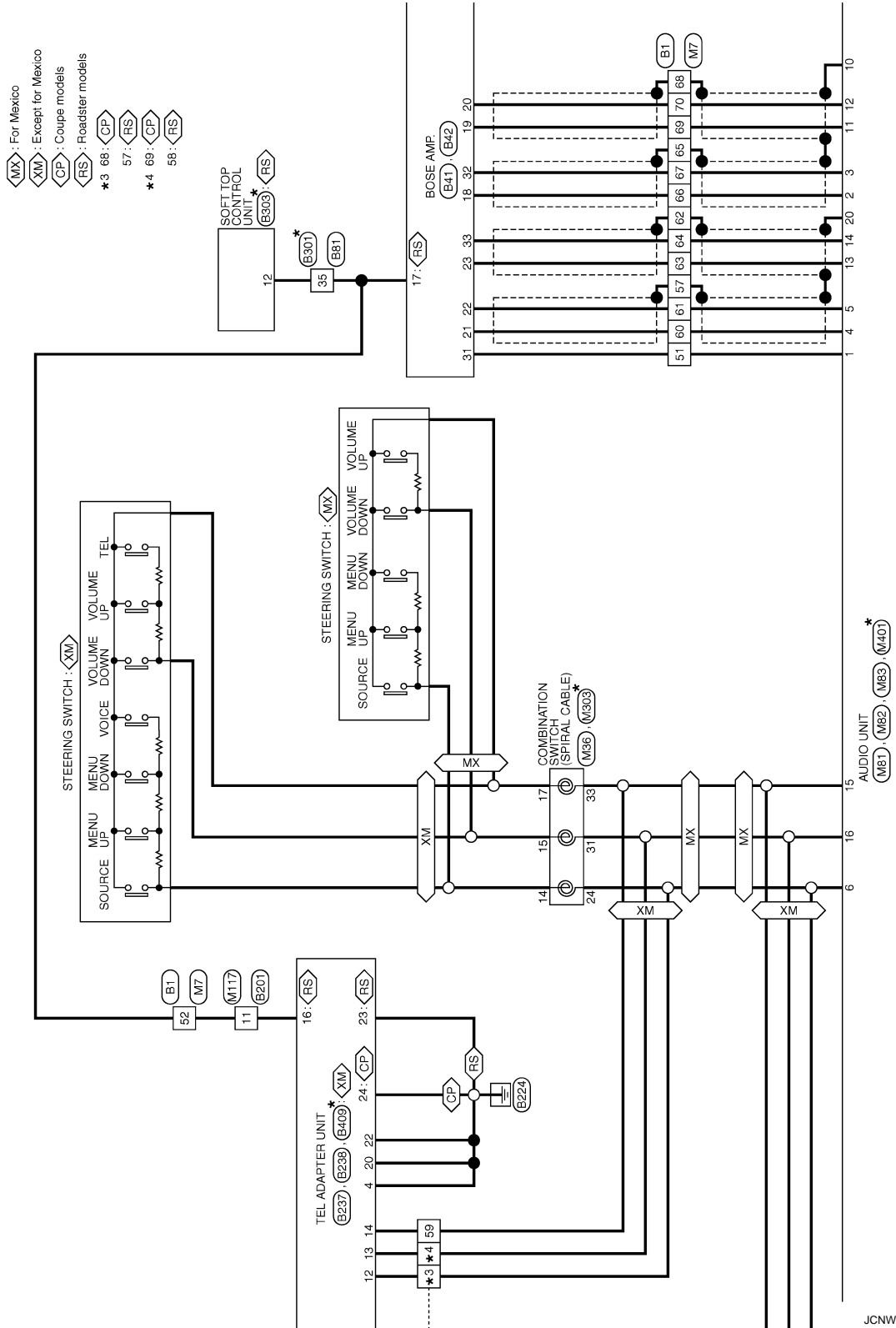
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# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]



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

JCNWM3102GB

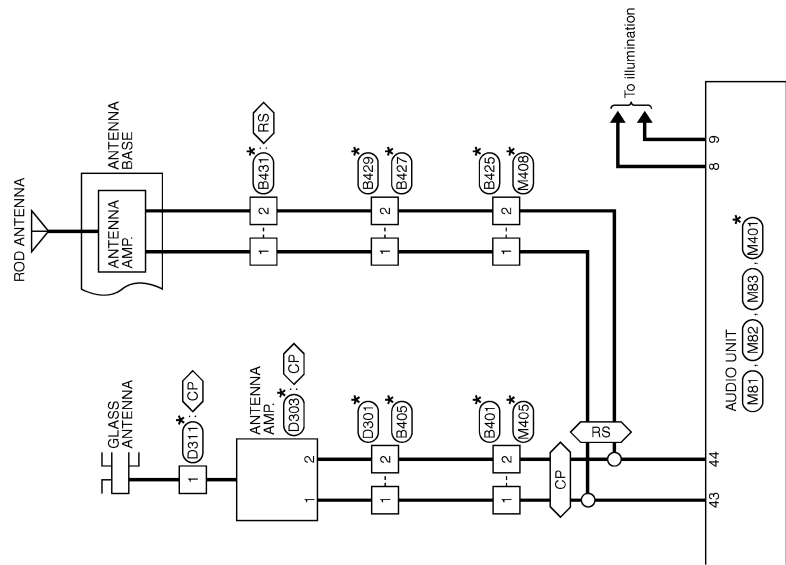


# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

CP: Coupe models  
RS: Roadster models



JCNWM3104GB

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



# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

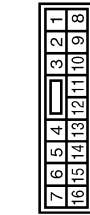
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80PV-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	BG	- [Coupe models]
3	O	- [Roadster models]
4	Y	-
5	W	-
6	V	-
7	LG	-
8	GR	-
9	SB	-
11	Y	-
12	W	-
13	BR	-
14	LG	-
15	B	-
16	V	-
20	SB	-
21	G	-
22	GR	-
23	V	-
24	O	-
25	L	-
26	P	-
31	W	-
32	B	-
33	P	- [Coupe models]
33	W	- [Roadster models]
34	R	-
35	B	-
40	Y	-
41	L	-
42	GR	-
43	BR	-
44	R	-
45	BG	- [Coupe models]
45	O	- [Roadster models]
46	SB	-
47	V	-
48	SHIELD	-

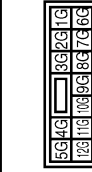
51	W	-
52	R	-
57	SHIELD	-
58	B	-
60	V	-
61	SB	-
62	SHIELD	-
63	BR	-
64	Y	-
65	SHIELD	-
66	P	-
67	L	-
68	SHIELD	-
69	R	-
70	G	-
71	V	-
72	P	-
73	BR	-
74	GR	-
75	O	-
80	Y	-
81	R	-
82	B	-
83	GR	-
84	G	- [Coupe models]
84	L	- [Roadster models]
85	LG	-
86	V	-
87	BR	-
88	GR	-
93	Y	-
94	L	- [Coupe models]
94	G	- [Roadster models]
95	GR	- [Coupe models]
95	LG	- [Roadster models]
96	L	-
97	Y	-
98	W	- [Coupe models]
98	Y/B	- [Roadster models]
99	LG	-
100	B	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS18FN-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	- [Coupe models]
2	Y	- [Roadster models]
3	R	- [Coupe models]
3	LG	- [Roadster models]
4	G	-
5	BG	- [Coupe models]
5	O	- [Roadster models]
6	V	-
7	L	-
11	LG	-
12	Y	-
13	W	-
14	B	-
15	GR	-
16	LG	-

Connector No.	B6
Connector Name	FUSE BLOCK (J/F)
Connector Type	NS12FBR-CS



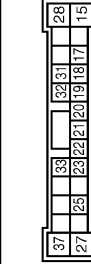
Terminal No.	Color of Wire	Signal Name [Specification]
5G	LG	-
10G	W	- [Coupe models]
10G	P	- [Roadster models]
11G	W	- [Coupe models]
11G	G	- [Roadster models]
12G	Y	-

Connector No.	E29
Connector Name	REAR SPEAKER LH
Connector Type	TK02FBR



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

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FBR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	L	SOUND SIGNAL REAR SPEAKER LH (+)
17	R	ROOF STATUS SIGNAL (AUDIO)
18	P	SOUND SIGNAL-FRONT LH (+)
19	R	SOUND SIGNAL-FRONT RH (+)
20	G	SOUND SIGNAL-FRONT RH (-)
21	V	SOUND SIGNAL REAR LH (+)
22	SB	SOUND SIGNAL REAR LH (-)
23	BR	SOUND SIGNAL REAR RH (+)
25	GR	WOOFER AMP. ON SIGNAL
27	W	SOUND SIGNAL FRONT TWEETER RH (-)
28	P	SOUND SIGNAL REAR SPEAKER LH (-)
31	W	BOSE AMP. ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	B	SOUND SIGNAL FRONT TWEETER RH (+)

JCNWM3105GB

A  
B  
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M  
N  
O  
P

AV

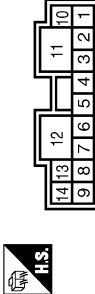
# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SCA12PER-SJA2



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	SOUND SIGNAL WOOFER (-)
2	SB	SOUND SIGNAL WOOFER (+)
3	SHIELD	SHIELD
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	Y	BATTERY

Connector No.	B45
Connector Name	WIRE TO WIRE
Connector Type	TKO2MR-P



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

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TKO2FBR



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

4	W	-
5	BR	-
6	B	-
8	Y	-
9	O	-
14	GR	-
15	SB	-
16	V	-
17	G	-
24	LG	-
25	V	-
31	L	-
32	P	-
34	O	-
35	R	-

Connector No.	B47
Connector Name	REAR SPEAKER LH
Connector Type	TKO2FBR



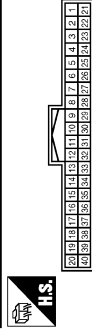
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	P	

Connector No.	B48
Connector Name	REAR WOOFER LH
Connector Type	MSO2FW-CS



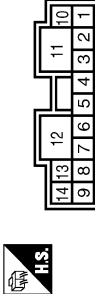
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	- [With NAVI]
1	L	- [Without NAVI]
2	Y	- [With NAVI]
2	V	- [Without NAVI]

Connector No.	B81
Connector Name	WIRE TO WIRE
Connector Type	TKO0FW-NH



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

Connector No.	B43
Connector Name	WOOFER
Connector Type	RS00FGY-PR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	SOUND SIGNAL REAR SPEAKER LH (+) [Coupe models]
1	LG	SOUND SIGNAL REAR SPEAKER LH (-) [Coupe models]
1	L	SOUND SIGNAL REAR SPEAKER LH (+) [Roadster models with NAVI]
2	R	SOUND SIGNAL REAR SPEAKER RH (+) [Coupe models]
2	LG	SOUND SIGNAL REAR SPEAKER RH (-) [Coupe models]
3	BR	SOUND SIGNAL REAR SPEAKER RH (+) [Roadster models]
3	Y	SOUND SIGNAL REAR SPEAKER RH (-) [Coupe models]
3	Y	SOUND SIGNAL REAR WOOFER RH (+) [Roadster models]
4	L	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
5	V	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
6	LG	SOUND SIGNAL TWEETER LH (+)
7	GR	SOUND SIGNAL TWEETER LH (-)
8	BG	SOUND SIGNAL FRONT SPEAKER RH (+) [Coupe models]
8	O	SOUND SIGNAL FRONT SPEAKER RH (-) [Roadster models]
9	SB	SOUND SIGNAL WOOFER (+) [Coupe models]
9	LG	SOUND SIGNAL REAR SPEAKER RH (+) [Roadster models]
10	P	SOUND SIGNAL REAR SPEAKER LH (-) [Coupe models]
10	Y	SOUND SIGNAL REAR WOOFER (-) [Roadster models with NAVI]
10	V	SOUND SIGNAL REAR WOOFER (-) [Roadster models without NAVI]
11	Y	BATTERY
12	B	GND
13	G	SOUND SIGNAL FRONT SPEAKER RH (-)
14	V	SOUND SIGNAL WOOFER (-) [Coupe models]
14	Y	SOUND SIGNAL REAR SPEAKER RH (-) [Roadster models]

Connector No.	B43
Connector Name	WOOFER
Connector Type	RS00FGY-PR



JCNWM3106GB

# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH08PW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	[Coupe models]
2	R	[Roadster models]
3	Y	[Coupe models]
3	B	[Roadster models]
4	G	[Coupe models]
7	R	[Roadster models]
7	Y	[Coupe models]
8	LG	[Roadster models]
9	Y	[Coupe models]
11	R	[Roadster models]
20	G	[Coupe models]
21	R	[Roadster models]
30	B	[Coupe models]
40	W	[Roadster models]
41	V	[Coupe models]
42	G	[Roadster models]
43	L	[Coupe models]
44	SB	[Roadster models]
51	P	[Coupe models]
52	L	[Roadster models]
53	SHIELD	[Coupe models]
54	BR	[Roadster models]
55	Y	[Coupe models]
56	SHIELD	[Roadster models]
57	G	[Coupe models]
57	P	[Roadster models]
58	R	[Coupe models]
58	L	[Roadster models]
59	B	[Coupe models]
60	W	[Roadster models]
61	GR	[Coupe models]
62	B	[Roadster models]
63	Y	[Coupe models]
64	Y	[Roadster models]
65	SB	[Coupe models]
66	BG	[Roadster models]
68	O	[Coupe models]
68	O	[Roadster models]
69	Y	[Coupe models]
69	Y	[Roadster models]

68	P	[Coupe models]
68	GR	[Roadster models]
69	P	[Coupe models]
69	L	[Roadster models]
70	G	[Coupe models]
70	O	[Roadster models]
80	V	[Coupe models]
81	SB	[Roadster models]
82	G	[Coupe models]
83	R	[Roadster models]
84	W	[Coupe models]
85	B	[Roadster models]
86	SHIELD	[Coupe models]
87	O	[Roadster models]
88	BR	[Coupe models]
89	Y	[Roadster models]
90	SHIELD	[Coupe models]
92	SR	[Roadster models]
92	LG	[Coupe models]
93	Y	[Roadster models]
94	W	[Coupe models]
94	SHIELD	[Roadster models]
94	G	[Coupe models]
95	GR	[Roadster models]
95	LG	[Coupe models]
97	LG	[Roadster models]
97	Y	[Coupe models]
98	W	[Roadster models]
98	Y/B	[Coupe models]
99	G	[Roadster models]
100	BR	[Coupe models]
100	Y	[Roadster models]

Connector No.	B229
Connector Name	REAR SPEAKER RH
Connector Type	TK02FER



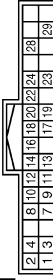
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	[Coupe models]
2	Y	[Roadster models]

Connector No.	B236
Connector Name	SATELLITE RADIO TUNER
Connector Type	A16FW



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

Connector No.	B237
Connector Name	TEL ADAPTER UNIT
Connector Type	TH22FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	BATTERY
2	V	ACC
3	SB	IGNITION SIGNAL
4	B	GND
7	L	MICROPHONE SIGNAL
8	SHIELD	MICROPHONE GND
9	BR	TEL VOICE SIGNAL (+)
10	Y	TEL VOICE SIGNAL (-)
11	BG	TELEPHONE ON SIGNAL [Coupe models]
11	O	TELEPHONE ON SIGNAL [Roadster models]
12	P	STRG SW A (INPUT)

13	L	STRG SW B (INPUT)
14	B	STRG SW GND (INPUT)
16	R	ROOF STATUS SIGNAL (AUDIO)
17	W	STRG SW A (OUTPUT)
18	GR	STRG SW B (OUTPUT)
19	B	STRG SW GND (OUTPUT)
20	B	CONTROL SIGNAL
22	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
28	V	VEHICLE SPEED SIGNAL (9-PULSE)
29	P	MICROPHONE VCC

Connector No.	B238
Connector Name	TEL ADAPTER UNIT
Connector Type	TH08PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
35	R	AV COMM (H)
36	G	AV COMM (L)
39	L	AV COMM (H)
40	L	AV COMM (H)
41	Y	AV COMM (L)
42	Y	AV COMM (L)

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	[Coupe models]
2	Y	[Roadster models]

A B C D E F G H I J K L M N O P

AV

# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B244
Connector Name	WIRE TO WIRE
Connector Type	TK02FB



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

Connector No.	B245
Connector Name	REAR SPEAKER RH
Connector Type	TK02FB



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

Connector No.	B249
Connector Name	REAR WOOFER RH
Connector Type	NS02FW-CS



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

Connector No.	B301
Connector Name	WIRE TO WIRE
Connector Type	TH40MP-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	LG	-
5	L	-
6	P	-
8	O	-
9	Y	-
14	BR	-
15	BR	-
16	W	-
17	DG	-
24	V	-
25	LG	-
31	BG	-
32	P	-
34	O	-
35	SB	-

Connector No.	B303
Connector Name	SOFT TOP CONTROL UNIT
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	SENSOR POWER SUPPLY (ROOF STRIKER SENSOR LH)
3	DG	ROOF STRIKER SENSOR RH
4	W	ROOF STRIKER SENSOR LH
8	Y	REVERSE SIGNAL
9	SB	POWER CONDITION (POWER WINDOW)
10	O	TRUNK LID OPEN SIGNAL
11	O	ROOF STATUS SIGNAL (INDICATOR)

12	SB	ROOF STATUS SIGNAL (AUDIO)
14	L	ROOF OPEN / CLOSE SWITCH (CLOSE)
15	LG	ROOF OPEN / CLOSE SWITCH (OPEN)
16	V	TRUNK ROOM LAMP SWITCH
17	BG	CAN-H
18	P	CAN-L
19	LG	LOCAL COMMUNICATION (POWER WINDOW)
20	V	LOCAL COMMUNICATION (BCM)
21	BR	SENSOR POWER SUPPLY (ROOF STRIKER SENSOR RH)
29	DG	GND
35	P	ROOF OPEN / CLOSE SWITCH (GND)

Connector No.	B401
Connector Name	WIRE TO WIRE
Connector Type	GT14SSCN-1/1PP-HU



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

Connector No.	B402
Connector Name	SATELLITE RADIO TUNER
Connector Type	FAMBA CONNECTOR



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

Connector No.	B405
Connector Name	WIRE TO WIRE
Connector Type	GT13SSN-1/1PP-HU(21)



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

Connector No.	B407
Connector Name	SATELLITE RADIO ANTENNA
Connector Type	GT16C-1PP-HU(A)



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

Connector No.	B409
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-1S-HU

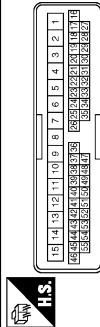


Terminal No.	Color of Wire	Signal Name [Specification]
33	-	TEL ANTENNA SIGNAL
34	SHIELD	SHIELD



**BOSE AUDIO WITHOUT NAVIGATION SYSTEM**

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



Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Type	GT1SSC-1/S-HU(21)



Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

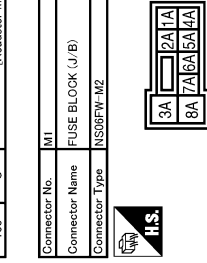


Terminal No.	Color of Wire	Signal Name [Specification]
10	V	-
11	LG	-
12	P	- [With BOSE system]
13	LG	- [Without BOSE system]
14	V	- [Coupe models without BOSE system]
15	L	- [Except for coupe models without BOSE system]
16	B	-
17	W	-
18	P	-
19	P	-
20	L	-
21	L	-
22	L	-
23	L	-
24	L	-
25	Y	-
26	Y	-
27	Y	-
28	G	-
29	BG	- [Coupe models]
30	O	- [Roadster models]
31	GR	-
32	GR	-
33	L	-

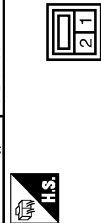
Terminal No.	1	2
Color of Wire	-	-
Signal Name [Specification]	-	-

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	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Color of Wire	Y	L	L	L	P	B	P	L	B	R	V	R	L	GR	P	W	SB	LG	BR	G	BR	V	R	B	W	LG	SB	G	R	GR	R	L	L	L	L	BR	V	R	B	W	LG	SB	G	R	GR	W	O	P	SHIELD	L
Signal Name [Specification]	-	-	-	-	-	-	-	-	- [Coupe models]	- [Roadster models]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

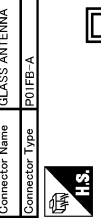
Connector No.	MI
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS00FW-M2



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



Connector No.	D311
Connector Name	GLASS ANTENNA
Connector Type	PO1FB-A



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

Terminal No.	1A	2A	3A	4A	5A	6A	7A	8A
Color of Wire	Y	G	L	P	L	Y	BR	L
Signal Name [Specification]	-	-	-	-	-	-	-	-

Terminal No.	1	2
Color of Wire	V	LG
Signal Name [Specification]	- [Coupe models without BOSE system]	- [Without BOSE system]

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



# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

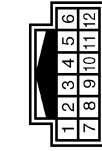
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	THEBMW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	LG	-
4	O	-
6	V	-
7	LG	-
8	SB	-
9	GR	-
11	Y	-
12	V	-
13	BR	-
14	V	-
15	B	-
16	V	-
20	SB	-
21	G	-
22	GR	-
23	V	-
24	R	-
25	L	-
26	P	-
31	W	-
32	B	-
33	W	-
34	R	-
35	B	-
40	L	-
41	R	-
42	GR	-
43	R	- [Coupe models]
43	V	- [Roadster models]
44	R	-
45	O	-
46	G	- [With A/T]
46	SB	- [With M/T]
47	R	- [With A/T]
47	V	- [With M/T]
48	SHIELD	-

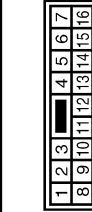
51	V	-
52	R	-
57	SHIELD	-
58	B	-
60	L	- [Coupe models]
60	V	- [Roadster models]
61	R	- [Coupe models]
61	SB	- [Roadster models]
62	SHIELD	-
63	R	- [Coupe models]
63	BR	- [Roadster models]
64	G	- [Coupe models]
64	Y	- [Roadster models]
65	SHIELD	-
66	LG	-
66	P	- [Coupe models]
67	V	- [Coupe models]
67	L	- [Roadster models]
68	SHIELD	-
68	L	- [Coupe models]
68	R	- [Roadster models]
69	P	- [Coupe models]
70	G	- [Coupe models]
70	G	- [Roadster models]
71	V	-
72	P	-
73	BR	-
74	GR	-
75	O	-
80	Y	-
81	W	-
82	BR	-
83	GR	-
84	L	-
85	LG	-
86	V	-
87	BR	-
88	SB	-
89	SB	-
94	SB	- [Coupe models]
94	L	- [Roadster models]
95	GR	- [Coupe models]
95	W	- [Roadster models]
96	L	-
97	LG	-
97	Y	- [Coupe models]
97	Y	- [Roadster models]
98	BG	- [Coupe models]
98	Y/B	- [Roadster models]
99	W	-
100	B	-

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	THEBMW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	R	-
4	B	-
5	V	-
6	B	-
7	SHIELD	-
8	R	-
9	G	-
10	B	-
11	G	-
12	Y	-

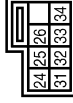
Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS1BMW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	-
3	LG	-
4	LG	-
5	V	-
6	V	-
7	L	-
11	LG	-
12	Y	-
13	W	-
14	L	-

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V

Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
25	SB	-
26	W	- [Coupe models]
26	BR	- [Roadster models]
31	L	-
32	Y	-
33	B	-
34	LG	-



Connector No.	M41
Connector Name	TWEETER LH
Connector Type	TK02FBR



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



**BOSE AUDIO WITHOUT NAVIGATION SYSTEM**

Connector No.	M42
Connector Name	TWEETER RH
Connector Type	TK2FBR



Connector No.	M81
Connector Name	AUDIO UNIT
Connector Type	TH18PT-C32



Connector No.	M82
Connector Name	AUDIO UNIT
Connector Type	TH12FW-NH



Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TH16MP-NH



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

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	BOSE AMP ON SIGNAL
2	LG	SOUND SIGNAL FRONT LH (+) [Coupe models]
2	P	SOUND SIGNAL FRONT LH (+) [Roadster models]
3	V	SOUND SIGNAL FRONT LH (-) [Coupe models]
3	L	SOUND SIGNAL FRONT LH (-) [Roadster models]
4	V	SOUND SIGNAL REAR LH (+) [Coupe models]
4	R	SOUND SIGNAL REAR LH (+) [Roadster models]
5	R	SOUND SIGNAL REAR LH (-) [Coupe models]
5	SB	SOUND SIGNAL REAR LH (-) [Roadster models]
6	P	STRG SW A [For Mexico]
6	W	STRG SW A [Except for Mexico]
7	L	ACC
8	W	ILL (-) [Coupe models]
8	O	ILL (-) [Roadster models]
9	R	ILL (+)
10	SHIELD	SHIELD
11	L	SOUND SIGNAL FRONT RH (+) [Coupe models]
11	R	SOUND SIGNAL FRONT RH (+) [Roadster models]
12	P	SOUND SIGNAL FRONT RH (-) [Coupe models]
12	G	SOUND SIGNAL FRONT RH (-) [Roadster models]
13	R	SOUND SIGNAL REAR RH (+) [Coupe models]
13	BR	SOUND SIGNAL REAR RH (+) [Roadster models]
14	G	SOUND SIGNAL REAR RH (-) [Coupe models]
14	Y	SOUND SIGNAL REAR RH (-) [Roadster models]
15	B	STRG SW B [For Mexico]
15	B	STRG SW B [Except for Mexico]
16	L	STRG SW B [For Mexico]
16	GR	STRG SW B [Except for Mexico]
18	Y	VEHICLE SPEED SIGNAL (8-PULSE)
19	Y	BATTERY
20	SHIELD	SHIELD

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	O	IGNITION POWER SUPPLY
3	L	VEHICLE SPEED SIGNAL (2-PULSE)
4	Y	VEHICLE SPEED SIGNAL (8-PULSE)
5	B	ILLUMINATION CONTROL SIGNAL
6	R	ROOF STATUS SIGNAL
9	BR	COMMUNICATION SIGNAL (TRIPLE METER-METER)
10	L	COMMUNICATION SIGNAL (TRIPLE METER-METER)
12	G	S-MODE SWITCH SIGNAL
15	L	ACC POWER SUPPLY
16	R	AIR BAG SIGNAL
17	B	GROUND
18	V	AMBIENT SENSOR SIGNAL
19	G	A/C AUTO AMP CONNECTION RECOGNITION SIGNAL
20	GR	AMBIENT SENSOR GROUND
21	L	CAN-H
22	P	CAN-L
23	B	GROUND
24	Y	FUEL LEVEL SENSOR GROUND

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
5	R	-
6	B	-
7	P	-
8	B	-
11	B	-
12	Y	-
13	G	-
14	SHIELD	-
15	R	-
16	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
21	R	AV COMM (H)
22	G	AV COMM (L)
25	SHIELD	SHIELD
26	LG	TEL VOICE SIGNAL (+) [Coupe models]
26	BR	TEL VOICE SIGNAL (+) [Roadster models]
27	V	TEL VOICE SIGNAL (-) [Coupe models]
27	Y	TEL VOICE SIGNAL (-) [Roadster models]
28	O	TELEPHONE ON SIGNAL [Coupe models]
28	G	TELEPHONE ON SIGNAL [Roadster models]

Connector No.	M83
Connector Name	AUDIO UNIT
Connector Type	A12FW



Terminal No.	Color of Wire	Signal Name [Specification]
31	W	SOUND SIGNAL LH (-)
32	B	SOUND SIGNAL LH (+)
33	R	SOUND SIGNAL RH (-)
34	G	SOUND SIGNAL RH (+)
35	SHIELD	SHIELD
38	P	REQUEST (SAT->AUDIO)
39	G	COMM (SAT->AUDIO)
40	L	COMM (AUDIO->SAT)

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**BOSE AUDIO WITHOUT NAVIGATION SYSTEM**

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH16FN-NH



6	5	4	3	2	1
18	15	14	13	12	11
10	9	8	7	6	5

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
5	R	-
6	B	-
7	P	-
8	R	-
11	B	-
12	Y	-
13	G	-
14	SHIELD	-
15	R	-
16	G	-

Connector No.	R5
Connector Name	MICROPHONE
Connector Type	TK04FW



1	2	3	4
---	---	---	---

Terminal No.	Color of Wire	Signal Name [Specification]
1	P	MICROPHONE SIGNAL
2	SHIELD	SHIELD
4	L	MICROPHONE VCC

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12FP-NH



6	5	4	3	2	1
12	11	10	9	8	7

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	B	-
3	R	-
4	B	-
5	V	-
6	R	-
7	SHIELD	-
8	R	-
9	G	-
10	B	-
11	G	-
12	Y	-

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AV

# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

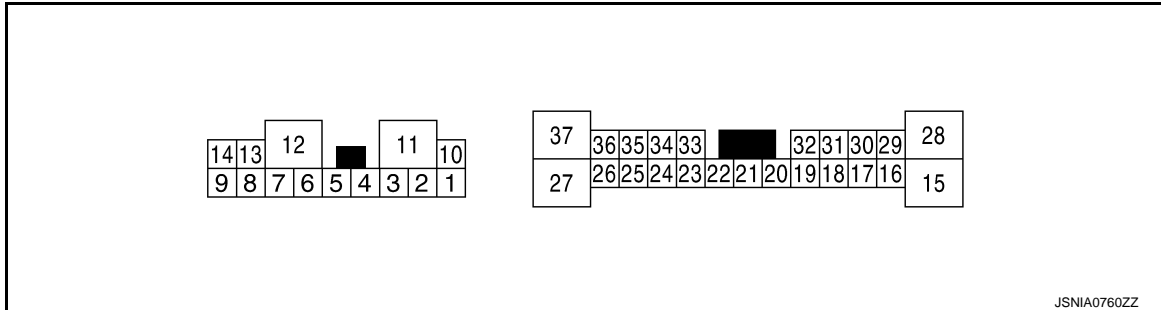
BOSE AMP.

COUPE

COUPE : Reference Value

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## TERMINAL LAYOUT



JSNIA0760ZZ

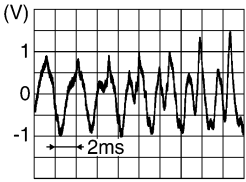
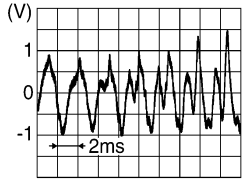
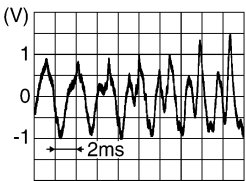
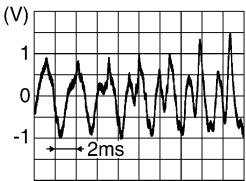
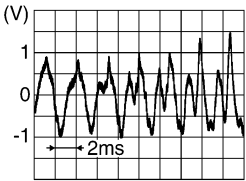
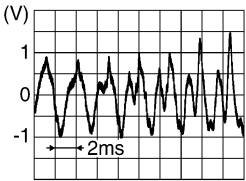
## PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (L)	10 (P)	Sound signal rear speaker LH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>
2 (R)	3 (BR)	Sound signal rear speaker RH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>
4 (L)	5 (V)	Sound signal front door speaker LH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>
6 (LG)	7 (GR)	Sound signal tweeter LH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>

# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

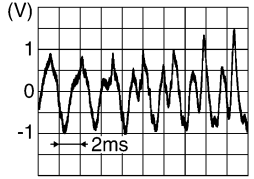
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
8 (BG)	13 (G)	Sound signal front door speaker RH	Output	Ignition switch ON	Voice output	 SKIB3609E
9 (SB)	14 (V)	Sound signal woofer	Output	Ignition switch ON	Voice output	 SKIB3609E
11 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
12 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
18 (P)	32 (L)	Sound signal front LH	Input	Ignition switch ON	Voice output	 SKIB3609E
19 (R)	20 (G)	Sound signal front RH	Input	Ignition switch ON	Voice output	 SKIB3609E
21 (V)	22 (SB)	Sound signal rear LH	Input	Ignition switch ON	Voice output	 SKIB3609E
23 (BR)	33 (Y)	Sound signal rear RH	Input	Ignition switch ON	Voice output	 SKIB3609E

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# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
25 (GR)	Ground	Woofer amp. ON signal	Output	Ignition switch ACC	—	12.0 V
31 (W)	Ground	BOSE amp. ON signal	Input	Ignition switch ACC	—	12.0 V
37 (B)	27 (W)	Sound signal tweeter RH	Output	Ignition switch ON	Voice output	

SKIB3609E

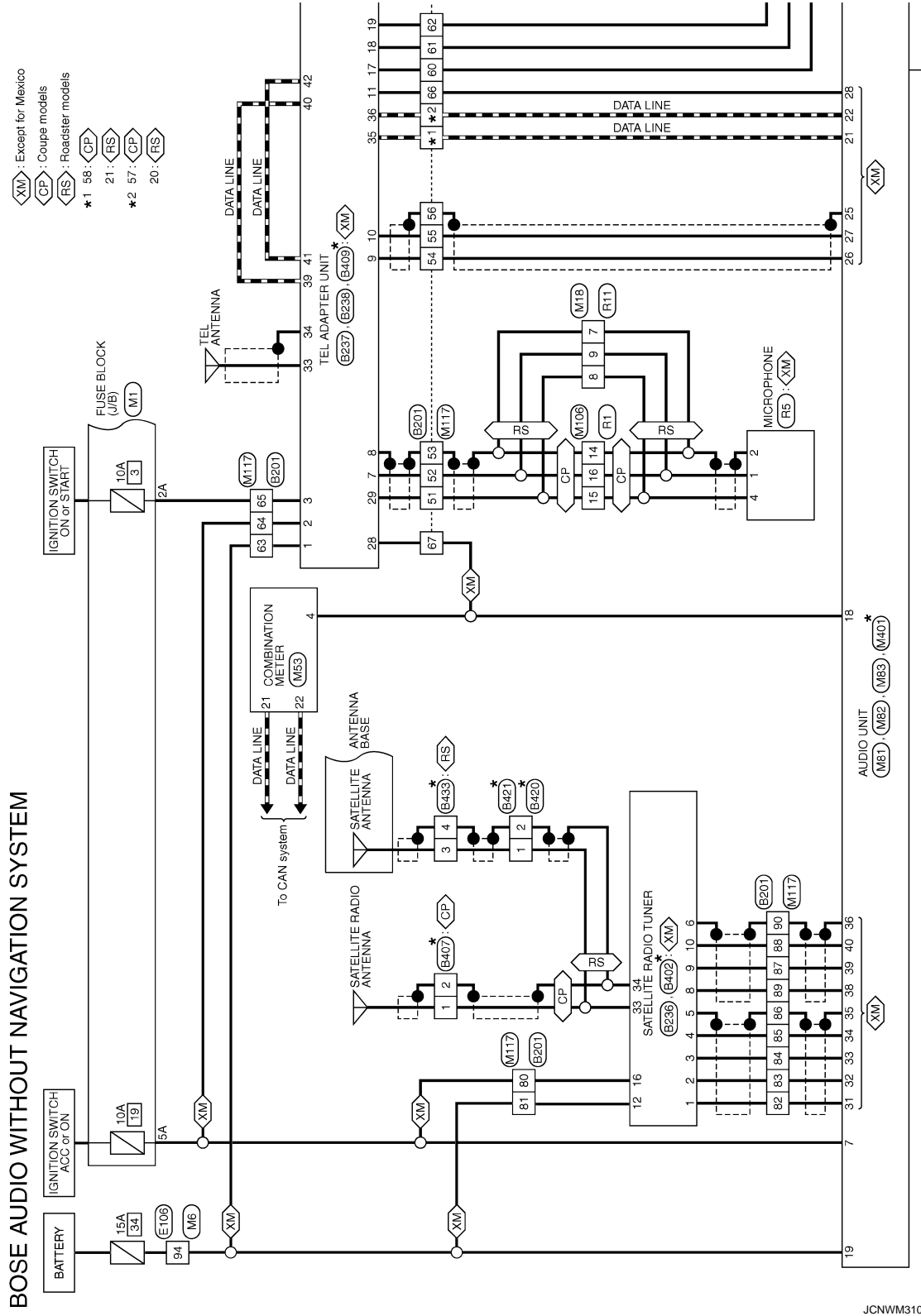
# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## COUPE : Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

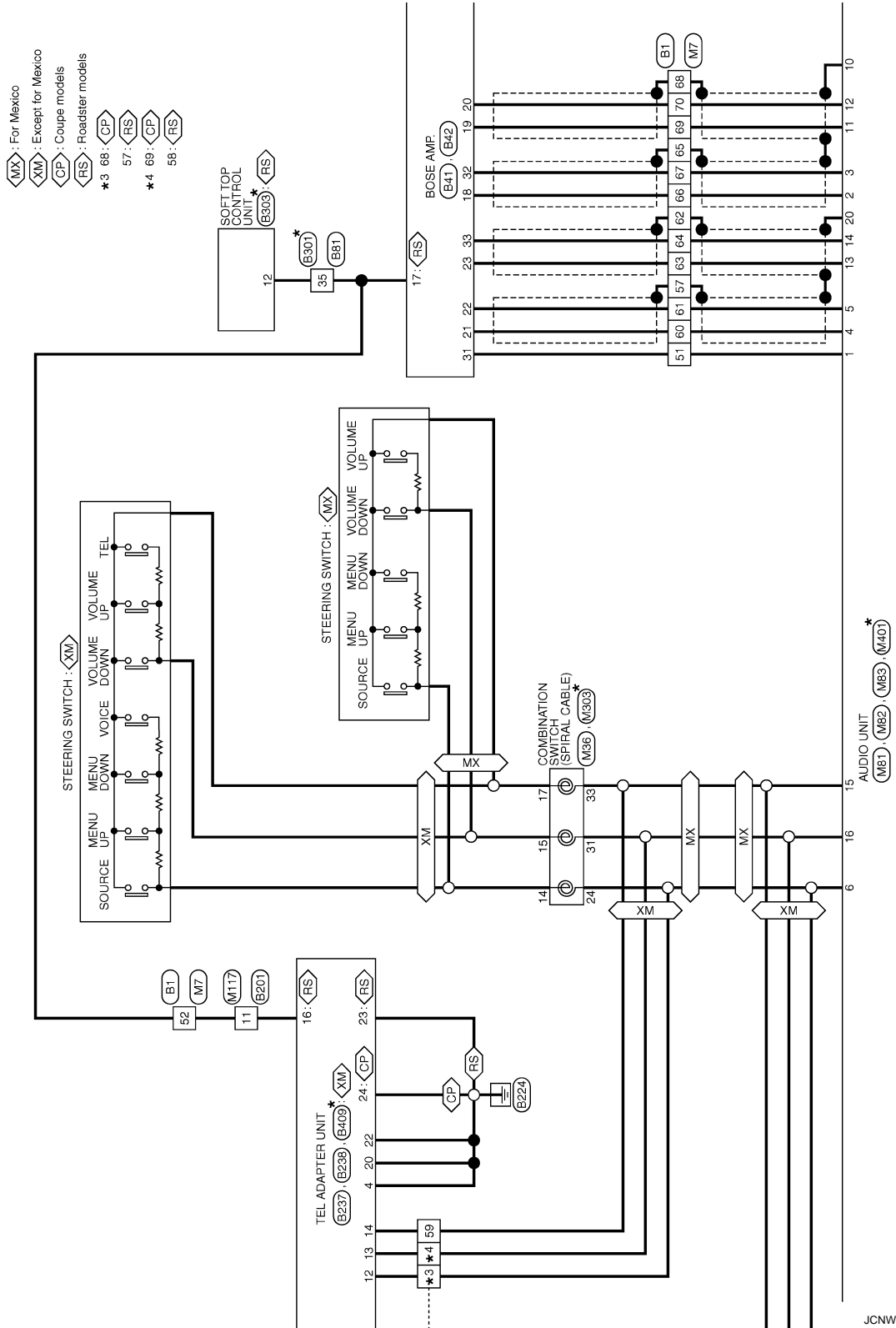
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# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]



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

JCNWM3102GB



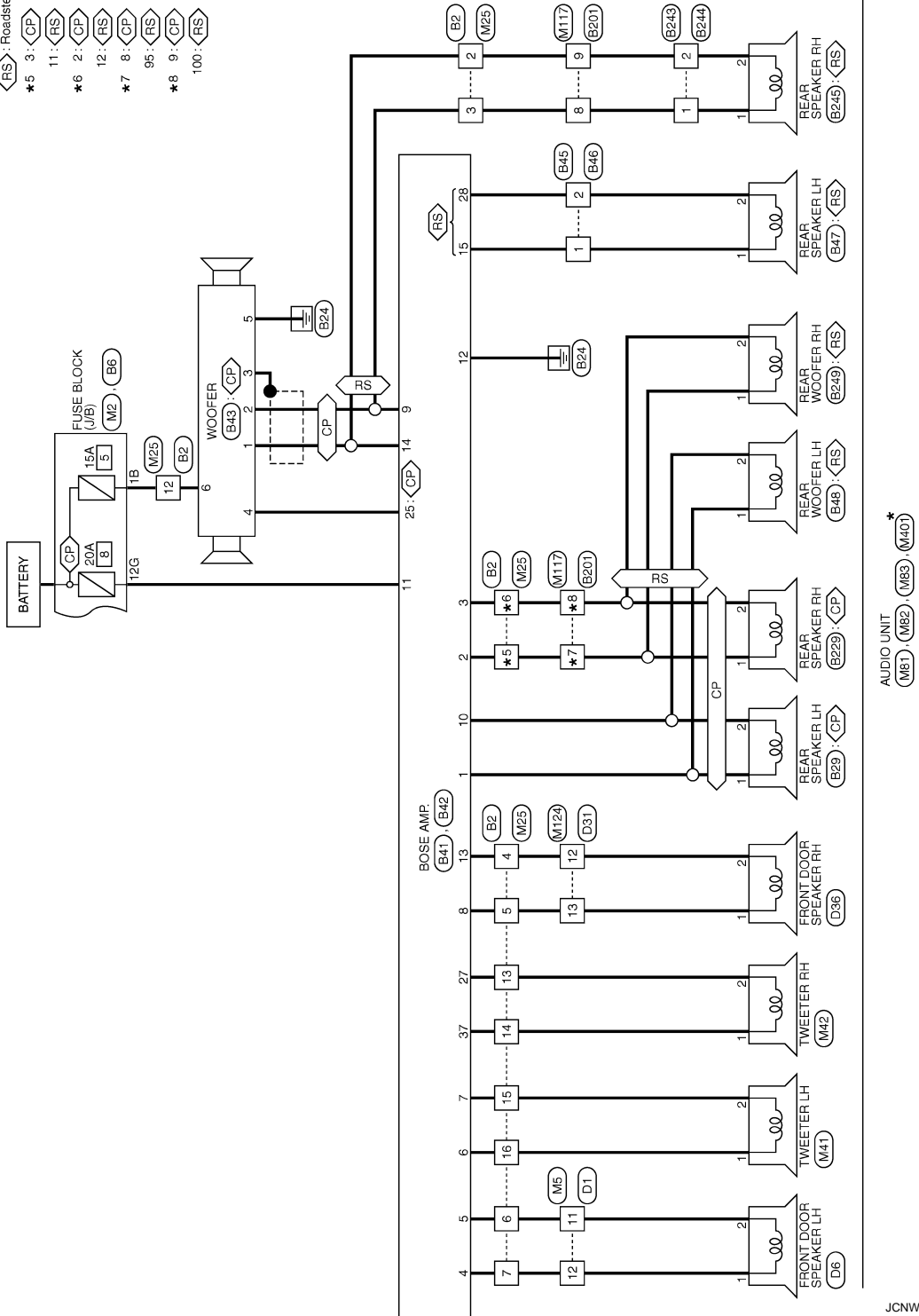
# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

◊ CP : Coupe models  
 ◊ RS : Roadster models

\*5 3 ◊ CP  
 11 ◊ RS  
 \*6 2 ◊ CP  
 12 ◊ RS  
 \*7 8 ◊ CP  
 95 ◊ RS  
 \*8 9 ◊ CP  
 100 ◊ RS



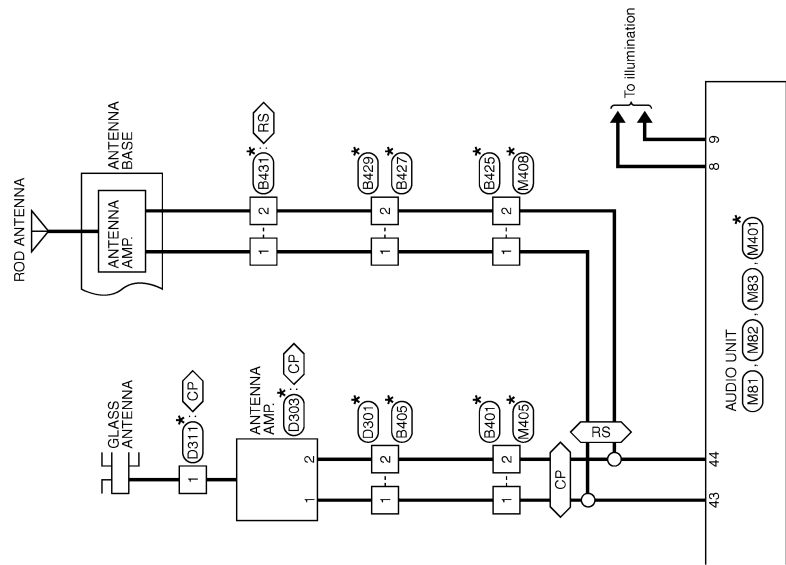
\*: This connector is not shown in "Harness Layout".

JCNWM3103GB

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# BOSE AMP.

CP: Coupe models  
RS: Roadster models

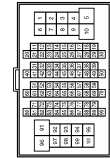


JCNWM3104GB

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

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80PV-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	BG	- [Coupe models]
3	O	- [Roadster models]
4	Y	-
5	W	-
6	V	-
7	LG	-
8	GR	-
9	SB	-
11	Y	-
12	W	-
13	BR	-
14	LG	-
15	B	-
16	V	-
20	SB	-
21	G	-
22	GR	-
23	V	-
24	O	-
25	L	-
26	P	-
31	W	-
32	B	-
33	P	- [Coupe models]
33	W	- [Roadster models]
34	R	-
35	B	-
40	Y	-
41	L	-
42	GR	-
43	BR	-
44	R	-
45	BG	- [Coupe models]
45	O	- [Roadster models]
46	SB	-
47	V	-
48	SHIELD	-

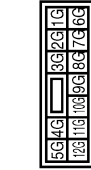
51	W	-
52	R	-
57	SHIELD	-
58	B	-
60	V	-
61	SB	-
62	SHIELD	-
63	BR	-
64	Y	-
65	SHIELD	-
66	P	-
67	L	-
68	SHIELD	-
69	R	-
70	G	-
71	V	-
72	P	-
73	BR	-
74	GR	-
75	O	-
80	Y	-
81	R	-
82	B	-
83	GR	-
84	G	- [Coupe models]
84	L	- [Roadster models]
85	LG	-
86	V	-
87	BR	-
88	GR	-
93	Y	-
94	L	- [Coupe models]
94	G	- [Roadster models]
95	GR	- [Coupe models]
95	LG	- [Roadster models]
96	L	-
97	Y	-
98	W	- [Coupe models]
98	Y/B	- [Roadster models]
99	LG	-
100	B	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS18FN-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	- [Coupe models]
2	Y	- [Roadster models]
3	R	- [Coupe models]
3	LG	- [Roadster models]
4	G	-
5	BG	- [Coupe models]
5	O	- [Roadster models]
6	V	-
7	L	-
11	LG	-
12	Y	-
13	W	-
14	B	-
15	GR	-
16	LG	-

Connector No.	B6
Connector Name	FUSE BLOCK (J/F)
Connector Type	NS12FBR-CS



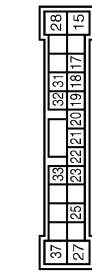
Terminal No.	Color of Wire	Signal Name [Specification]
5G	LG	-
10G	W	- [Coupe models]
10G	P	- [Roadster models]
11G	W	- [Coupe models]
11G	G	- [Roadster models]
12G	Y	-

Connector No.	B29
Connector Name	REAR SPEAKER LH
Connector Type	TK02FBR



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

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FBR-SGA4



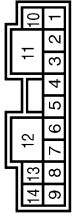
Terminal No.	Color of Wire	Signal Name [Specification]
15	L	SOUND SIGNAL REAR SPEAKER LH (+)
17	R	ROOF STATUS SIGNAL (AUDIO)
18	P	SOUND SIGNAL-FRONT LH (+)
19	R	SOUND SIGNAL-FRONT RH (+)
20	G	SOUND SIGNAL-FRONT RH (-)
21	V	SOUND SIGNAL REAR LH (+)
22	SB	SOUND SIGNAL REAR LH (-)
23	BR	SOUND SIGNAL REAR RH (+)
25	GR	WOOFER AMP. ON SIGNAL
27	W	SOUND SIGNAL FRONT TWEETER RH (-)
28	P	SOUND SIGNAL REAR SPEAKER LH (-)
31	W	BOSE AMP. ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	B	SOUND SIGNAL FRONT TWEETER RH (+)

A B C D E F G H I J K L M O P

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SCA12PER-SJA2



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	SOUND SIGNAL REAR SPEAKER LH (+) [Coupe models]
1	LG	SOUND SIGNAL REAR WOOFER LH (+) [Roadster models with NAVI]
1	L	SOUND SIGNAL REAR WOOFER LH (+) [Roadster models without NAVI]
2	R	SOUND SIGNAL REAR SPEAKER RH (+) [Coupe models]
2	LG	SOUND SIGNAL REAR WOOFER RH (+) [Roadster models]
3	BR	SOUND SIGNAL REAR SPEAKER RH (+) [Roadster models]
3	Y	SOUND SIGNAL REAR WOOFER RH (+) [Coupe models]
3	Y	SOUND SIGNAL REAR WOOFER RH (+) [Roadster models]
4	L	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
5	V	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
6	LG	SOUND SIGNAL TWEETER LH (+)
7	GR	SOUND SIGNAL TWEETER LH (+)
8	BG	SOUND SIGNAL FRONT SPEAKER RH (+) [Coupe models]
8	O	SOUND SIGNAL FRONT SPEAKER RH (+) [Roadster models]
9	SB	SOUND SIGNAL WOOFER (+) [Coupe models]
9	LG	SOUND SIGNAL REAR SPEAKER RH (+) [Roadster models]
10	P	SOUND SIGNAL REAR SPEAKER LH (-) [Coupe models]
10	Y	SOUND SIGNAL REAR WOOFER (-) [Roadster models with NAVI]
10	Y	SOUND SIGNAL REAR WOOFER (-) [Roadster models without NAVI]
11	Y	BATTERY
12	B	GND
13	G	SOUND SIGNAL FRONT SPEAKER RH (-)
14	V	SOUND SIGNAL WOOFER (-) [Coupe models]
14	Y	SOUND SIGNAL REAR SPEAKER RH (-) [Roadster models]

Connector No.	B43
Connector Name	WOOFER
Connector Type	RS08FGY-PR



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	SOUND SIGNAL WOOFER (-)
2	SB	SOUND SIGNAL WOOFER (+)
3	SHIELD	SHIELD
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	Y	BATTERY

Connector No.	B45
Connector Name	WIRE TO WIRE
Connector Type	TK02MR-P



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

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TK02FBR



Connector No.	B47
Connector Name	REAR SPEAKER LH
Connector Type	TK02FBR



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

Connector No.	B48
Connector Name	REAR WOOFER LH
Connector Type	MS02FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-- [With NAVI]
1	L	-- [Without NAVI]
2	Y	-- [With NAVI]
2	V	-- [Without NAVI]

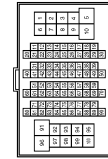
Connector No.	B81
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-NH



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

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH08PW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	[Coupe models]
2	R	[Roadster models]
3	Y	[Coupe models]
3	B	[Roadster models]
4	G	[Coupe models]
7	R	[Roadster models]
7	Y	[Coupe models]
8	LG	[Roadster models]
9	Y	[Coupe models]
11	R	[Roadster models]
20	G	[Coupe models]
21	R	[Roadster models]
30	B	[Coupe models]
40	W	[Roadster models]
41	V	[Coupe models]
42	G	[Roadster models]
43	L	[Coupe models]
44	SB	[Roadster models]
51	P	[Coupe models]
52	L	[Roadster models]
53	SHIELD	[Coupe models]
54	BR	[Roadster models]
55	Y	[Coupe models]
56	SHIELD	[Roadster models]
57	G	[Coupe models]
57	P	[Roadster models]
58	R	[Coupe models]
58	L	[Roadster models]
59	B	[Coupe models]
60	W	[Roadster models]
61	GR	[Coupe models]
62	B	[Roadster models]
63	Y	[Coupe models]
64	Y	[Roadster models]
65	SB	[Coupe models]
66	BG	[Roadster models]
68	O	[Coupe models]
68	O	[Roadster models]
69	Y	[Coupe models]
69	Y	[Roadster models]

68	P	[Coupe models]
68	GR	[Roadster models]
69	L	[Coupe models]
69	P	[Roadster models]
70	G	[Coupe models]
70	O	[Roadster models]
80	V	[Coupe models]
81	SB	[Roadster models]
82	G	[Coupe models]
83	R	[Roadster models]
84	W	[Coupe models]
85	B	[Roadster models]
86	SHIELD	[Coupe models]
87	O	[Roadster models]
88	BR	[Coupe models]
89	Y	[Roadster models]
90	SHIELD	[Coupe models]
92	SR	[Roadster models]
92	LG	[Coupe models]
93	Y	[Roadster models]
94	W	[Coupe models]
94	SHIELD	[Roadster models]
95	GR	[Coupe models]
95	GR	[Roadster models]
97	LG	[Coupe models]
97	Y	[Roadster models]
98	W	[Coupe models]
98	Y/B	[Roadster models]
99	G	[Coupe models]
100	BR	[Roadster models]
100	Y	[Coupe models]

Connector No.	B229
Connector Name	REAR SPEAKER RH
Connector Type	TK02FER



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	[Coupe models]
2	Y	[Roadster models]

Connector No.	B236
Connector Name	SATELLITE RADIO TUNER
Connector Type	A18FW



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

Connector No.	B237
Connector Name	TEL ADAPTER UNIT
Connector Type	TH22FW-NH



2	4	8	10	12	14	16	18	20	22	24	28
1	3	7	9	11	13	17	19	23	27	29	

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	BATTERY
2	V	ACC
3	SB	IGNITION SIGNAL
4	B	GND
7	L	MICROPHONE SIGNAL
8	SHIELD	MICROPHONE GND
9	BR	TEL VOICE SIGNAL (+)
10	Y	TEL VOICE SIGNAL (-)
11	BG	TELEPHONE ON SIGNAL [Coupe models]
11	O	TELEPHONE ON SIGNAL [Roadster models]
12	P	STRG SW A (INPUT)

13	L	STRG SW B (INPUT)
14	B	STRG SW GND (INPUT)
16	R	ROOF STATUS SIGNAL (AUDIO)
17	W	STRG SW A (OUTPUT)
18	GR	STRG SW B (OUTPUT)
19	B	STRG SW GND (OUTPUT)
20	B	CONTROL SIGNAL
22	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
28	V	VEHICLE SPEED SIGNAL (9-PULSE)
29	P	MICROPHONE VCC

Connector No.	B238
Connector Name	TEL ADAPTER UNIT
Connector Type	TH08PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
35	R	AV COMM (H)
36	G	AV COMM (L)
39	L	AV COMM (H)
40	L	AV COMM (H)
41	Y	AV COMM (L)
42	Y	AV COMM (L)

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	[Coupe models]
2	Y	[Roadster models]

A B C D E F G H I J K L M N O P

AV

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Connector No.	B244
Connector Name	WIRE TO WIRE
Connector Type	TK02FB



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

Connector No.	B245
Connector Name	REAR SPEAKER RH
Connector Type	TK02FB



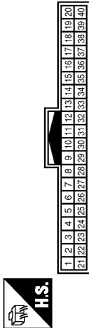
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	Y	-

Connector No.	B249
Connector Name	REAR WOOFER RH
Connector Type	NS02FW-CS



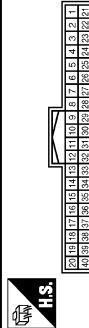
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	Y	-

Connector No.	B301
Connector Name	WIRE TO WIRE
Connector Type	TH40MP-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	LG	-
5	L	-
6	P	-
8	O	-
9	Y	-
14	BR	-
15	BR	-
16	W	-
17	DG	-
24	V	-
25	LG	-
31	BG	-
32	P	-
34	O	-
35	SB	-

Connector No.	B303
Connector Name	SOFT TOP CONTROL UNIT
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	SENSOR POWER SUPPLY (ROOF STRIKER SENSOR LH)
3	DG	ROOF STRIKER SENSOR RH
4	W	ROOF STRIKER SENSOR LH
8	Y	REVERSE SIGNAL
9	SB	POWER CONDITION (POWER WINDOW)
10	O	TRUNK LID OPEN SIGNAL
11	O	ROOF STATUS SIGNAL (INDICATOR)

12	SB	ROOF STATUS SIGNAL (AUDIO)
14	L	ROOF OPEN / CLOSE SWITCH (CLOSE)
15	LG	ROOF OPEN / CLOSE SWITCH (OPEN)
16	V	TRUNK ROOM LAMP SWITCH
17	BG	CAN-H
18	P	CAN-L
19	LG	LOCAL COMMUNICATION (POWER WINDOW)
20	V	LOCAL COMMUNICATION (BCM)
21	BR	SENSOR POWER SUPPLY (ROOF STRIKER SENSOR RH)
29	DG	GND
35	P	ROOF OPEN / CLOSE SWITCH (GND)

Connector No.	B401
Connector Name	WIRE TO WIRE
Connector Type	GT14SSCN-1/1PP-HU



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

Connector No.	B402
Connector Name	SATELLITE RADIO TUNER
Connector Type	FAMBA CONNECTOR



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

Connector No.	B405
Connector Name	WIRE TO WIRE
Connector Type	GT13SSN-1/1PP-HU(21)



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

Connector No.	B407
Connector Name	SATELLITE RADIO ANTENNA
Connector Type	GT16C-1PP-HU(A)


















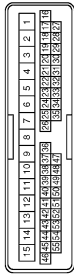




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	B409
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-1S-HU



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

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Connector No. B420	Connector Name WIRE TO WIRE	Connector Type GT16C-1PP-HU(A)	 	Terminal No. 1	Color of Wire -	Signal Name [Specification] -	Terminal No. 2	Color of Wire -	Signal Name [Specification] -	Connector No. B421	Connector Name WIRE TO WIRE	Connector Type GT16C-1S-HU(A)	 	Terminal No. 1	Color of Wire -	Signal Name [Specification] -	Terminal No. 2	Color of Wire -	Signal Name [Specification] -	Connector No. B425	Connector Name WIRE TO WIRE	Connector Type GT135CN-1/1PP-HU	 	Terminal No. 1	Color of Wire -	Signal Name [Specification] -	Terminal No. 2	Color of Wire -	Signal Name [Specification] -																																
Connector No. B427	Connector Name WIRE TO WIRE	Connector Type GT135SN-1/1PP-HU(Z1)	 	Terminal No. 1	Color of Wire -	Signal Name [Specification] -	Terminal No. 2	Color of Wire -	Signal Name [Specification] -	Connector No. B428	Connector Name WIRE TO WIRE	Connector Type GT135S-1/1S-HU(Z1)	 	Terminal No. 1	Color of Wire -	Signal Name [Specification] -	Terminal No. 2	Color of Wire -	Signal Name [Specification] -	Connector No. B431	Connector Name ANTENNA BASE	Connector Type GT135SN-1/1PP-HU	 	Terminal No. 1	Color of Wire -	Signal Name [Specification] -	Terminal No. 2	Color of Wire -	Signal Name [Specification] -																																
Connector No. B433	Connector Name ANTENNA BASE	Connector Type GT16C-1PP-HU(A)	 	Terminal No. 3	Color of Wire -	Signal Name [Specification] SATELLITE ANTENNA SIGNAL	Terminal No. 4	Color of Wire SHIELD	Signal Name [Specification] SHIELD	Connector No. D1	Connector Name WIRE TO WIRE	Connector Type TH40FW-CS15	 	Terminal No. 7	Color of Wire Y	Signal Name [Specification] -	Terminal No. 8	Color of Wire Y	Signal Name [Specification] -	Terminal No. 9	Color of Wire G	Signal Name [Specification] -	Terminal No. 10	Color of Wire BG	Signal Name [Specification] -	Terminal No. 11	Color of Wire P	Signal Name [Specification] -	Terminal No. 12	Color of Wire L	Signal Name [Specification] -	Terminal No. 13	Color of Wire B	Signal Name [Specification] -	Terminal No. 14	Color of Wire SB	Signal Name [Specification] -	Terminal No. 15	Color of Wire W	Signal Name [Specification] -	Terminal No. 19	Color of Wire G	Signal Name [Specification] -	Terminal No. 23	Color of Wire R	Signal Name [Specification] -	Terminal No. 44	Color of Wire L	Signal Name [Specification] -	Terminal No. 47	Color of Wire B	Signal Name [Specification] -	Terminal No. 48	Color of Wire W	Signal Name [Specification] -	Terminal No. 50	Color of Wire LG	Signal Name [Specification] -	Terminal No. 51	Color of Wire R	Signal Name [Specification] -
Connector No. B433	Connector Name ANTENNA BASE	Connector Type GT16C-1PP-HU(A)	 	Terminal No. 3	Color of Wire -	Signal Name [Specification] SATELLITE ANTENNA SIGNAL	Terminal No. 4	Color of Wire SHIELD	Signal Name [Specification] SHIELD	Connector No. D6	Connector Name FRONT DOOR SPEAKER LH	Connector Type NS02FW-CS	 	Terminal No. 1	Color of Wire L	Signal Name [Specification] -	Terminal No. 2	Color of Wire P	Signal Name [Specification] -	Terminal No. 2	Color of Wire V	Signal Name [Specification] -																																							

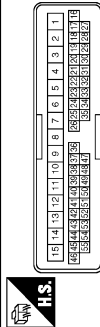
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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
10	V	-
11	LG	-
12	P	- [With BOSE system]
13	LG	- [Without BOSE system]
14	V	- [Coupe models without BOSE system]
15	L	- [Except for coupe models without BOSE system]
16	B	-
17	W	-
18	P	-
19	L	-
20	L	-
21	L	-
22	L	-
23	L	-
24	L	-
25	Y	-
26	Y	-
27	Y	-
28	G	-
29	BG	- [Coupe models]
30	O	- [Roadster models]
31	GR	-
32	L	-
33	L	-

Connector No.	D36
Connector Name	FRONT DOOR SPEAKER RH
Connector Type	NS20FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [Coupe models without BOSE system]
2	L	- [Except for coupe models without BOSE system]
3	P	- [With BOSE system]
4	LG	- [Without BOSE system]

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Type	GT15SS-1/S-HU(21)



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

Connector No.	D303
Connector Name	ANTENNA AMP.
Connector Type	GT15SS-1/S-HU



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

Connector No.	D311
Connector Name	GLASS ANTENNA
Connector Type	PO1FB-A



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

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	L	-
3	L	-
4	L	-
5	P	-
6	B	-
7	P	-
8	L	-
9	L	- [Coupe models]
10	B	- [Roadster models]
11	V	-
12	R	-
13	L	-
14	GR	-
15	P	-
16	W	-
17	SB	-
18	LG	-
19	BR	-
20	G	-
21	G	- [Coupe models]
22	L	- [Roadster models]
23	L	-
24	Y	-
25	P	-
26	L	-
27	L	-
28	L	-
29	L	-
30	BR	-
31	V	-
32	V	-
33	P	-
34	L	-
35	BR	-
36	V	-
37	Y	-
38	R	-
39	B	-
40	W	-
41	LG	-
42	SB	-
43	G	-
44	R	- [Roadster models with M/T]
45	GR	- [Except for roadster models with M/T]
46	BG	- [Coupe models]
47	O	- [Roadster models]
48	W	-
49	P	-
50	SHIELD	-
51	L	-

Terminal No.	Color of Wire	Signal Name [Specification]
1A	V	-
2A	G	-
3A	L	-
4A	P	-
5A	L	-
6A	Y	-
7A	BR	-
8A	L	-

70	P	-
80	W	-
81	P	-
82	G	-
83	V	-
84	L	-
85	BG	- [Coupe models]
86	LG	- [Roadster models]
87	R	-
88	P	-
89	P	-
90	W	-
91	L	-
92	L	-
93	G	-
94	Y	-
95	Y	-
96	Y	-
97	BR	-
98	GR	-
99	LG	-
100	BG	- [Coupe models]
101	O	- [Roadster models]

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





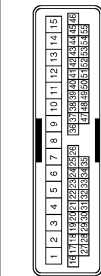
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Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	MS10PW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1B	Y	-
3B	P	-
4B	G	-
5B	O	-
6B	Y	-
8B	R	-
9B	SB	-

Connector No.	M5
Connector Name	WIPE TO WIPE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	Y	-
9	G	-
10	V	-
11	V	-
12	L	-
13	B	-
14	Y	-
15	W	-
19	Y	-
23	Y/B	-
44	L	-
47	B	-
48	SB	-
48	SB	- [Roadster models with M/T]

49	Y	-	-	-
50	W	-	-	-
51	R	-	-	-
52	L	-	-	- [With A/T]
53	W	-	-	- [With M/T]
54	G	-	-	-
55	R	-	-	-

Connector No.	M6
Connector Name	WIPE TO WIPE
Connector Type	TH80MW-CS16-TM4



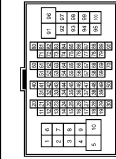
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	L	-
4	L	-
7	B	-
8	P	-
9	L	- [Coupe models]
9	B	- [Roadster models]
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-
17	BR	-
20	GR	-
21	BR	- [Coupe models]
21	R	- [Roadster models]
31	L	- [Roadster models with M/T]
31	BR	- [Except for roadster models with M/T]
32	Y	- [Roadster models with M/T]
32	V	- [Except for roadster models with M/T]
33	P	-
34	L	-
35	BR	-
36	SB	-
37	Y	-
38	LG	-
38	SB	-
38	SB	-
40	W	-

41	LG	-
42	R	-
43	G	-
44	R	- [With A/T]
44	R	- [With M/T]
45	O	-
46	G	-
47	BR	-
58	SHIELD	-
59	L	-
70	R	-
80	LG	-
81	GR	-
92	V	-
93	V	-
94	L	-
95	BR	-
96	Y	-
97	V	-
97	V	- [Roadster models with M/T]
97	G	- [Except for roadster models with M/T]
99	P	-
99	W	-
99	P	-
99	P	-
94	Y	-
96	P	-
97	GR	-
98	O	-
99	W	-
100	R	-

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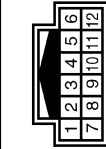
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	THEBMW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	LG	-
4	O	-
6	V	-
7	LG	-
8	SB	-
9	GR	-
11	Y	-
12	V	-
13	BR	-
14	V	-
15	B	-
16	V	-
20	SB	-
21	G	-
22	GR	-
23	V	-
24	R	-
25	L	-
26	P	-
31	W	-
32	B	-
33	W	-
34	R	-
35	B	-
40	L	-
41	R	-
42	GR	-
43	R	- [Coupe models]
43	V	- [Roadster models]
44	R	-
45	O	-
46	G	- [With A/T]
46	SB	- [With M/T]
47	R	- [With A/T]
47	V	- [With M/T]
48	SHIELD	-

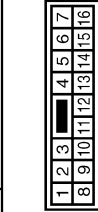
51	V	-
52	R	-
57	SHIELD	-
58	B	-
60	L	- [Coupe models]
60	V	- [Roadster models]
61	R	- [Coupe models]
61	SB	- [Roadster models]
62	SHIELD	-
63	R	- [Coupe models]
63	BR	- [Roadster models]
64	G	- [Coupe models]
64	Y	- [Roadster models]
65	SHIELD	-
66	LG	-
66	P	- [Coupe models]
67	V	- [Coupe models]
67	L	- [Roadster models]
68	SHIELD	-
68	L	- [Coupe models]
68	R	- [Roadster models]
69	P	- [Coupe models]
70	G	- [Coupe models]
70	G	- [Roadster models]
71	V	-
72	P	-
73	BR	-
74	GR	-
75	O	-
80	Y	-
81	W	-
82	BR	-
83	GR	-
84	L	-
85	LG	-
86	V	-
87	BR	-
88	SB	-
89	SB	-
94	SB	- [Coupe models]
94	L	- [Roadster models]
95	GR	- [Coupe models]
95	W	- [Roadster models]
96	L	-
97	LG	-
97	Y	- [Coupe models]
98	BG	- [Roadster models]
98	Y/B	- [Coupe models]
99	W	-
100	B	-

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	THEBMW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	R	-
4	B	-
5	V	-
6	B	-
7	SHIELD	-
8	R	-
9	G	-
10	B	-
11	G	-
12	Y	-

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS1BMW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	-
3	LG	-
4	LG	-
5	V	-
6	V	-
7	L	-
11	LG	-
12	Y	-
13	W	-
14	L	-

15	W	-
16	L	-

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V



Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
25	SB	-
26	W	- [Coupe models]
26	BR	- [Roadster models]
31	L	-
32	Y	-
33	B	-
34	LG	-

Connector No.	M41
Connector Name	TWEETER LH
Connector Type	TK02FBR



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

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M42
Connector Name	TWEETER RH
Connector Type	TK2FBR



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

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	O	IGNITION POWER SUPPLY
3	L	VEHICLE SPEED SIGNAL (2-PULSE)
4	Y	VEHICLE SPEED SIGNAL (8-PULSE)
5	B	ILLUMINATION CONTROL SIGNAL
6	R	ROOF STATUS SIGNAL
9	BR	COMMUNICATION SIGNAL (TRIPLE METER-METER)
10	L	COMMUNICATION SIGNAL (TRIPLE METER-METER)
12	G	S-MODE SWITCH SIGNAL
15	L	ACC POWER SUPPLY
16	R	AIR BAG SIGNAL
17	B	GROUND
18	V	AMBIENT SENSOR SIGNAL
19	G	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
20	GR	AMBIENT SENSOR GROUND
21	L	CAN-H
22	P	CAN-L
23	B	GROUND
24	Y	FUEL LEVEL SENSOR GROUND

Connector No.	M81
Connector Name	AUDIO UNIT
Connector Type	TH18PT-C32



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	BOSE AMP. ON SIGNAL
2	LG	SOUND SIGNAL FRONT LH (+) [Coupe models]
2	P	SOUND SIGNAL FRONT LH (-) [Roadster models]
3	V	SOUND SIGNAL FRONT LH (+) [Coupe models]
3	L	SOUND SIGNAL FRONT LH (-) [Roadster models]
4	L	SOUND SIGNAL REAR LH (+) [Coupe models]
4	V	SOUND SIGNAL REAR LH (-) [Roadster models]
5	R	SOUND SIGNAL REAR LH (+) [Coupe models]
5	SB	SOUND SIGNAL REAR LH (-) [Roadster models]
6	P	STRG SW A [For Mexico]
6	W	STRG SW A [Except for Mexico]
7	L	ACC
8	W	ILL (-) [Coupe models]
8	O	ILL (-) [Roadster models]
9	R	ILL (+)
10	SHIELD	SHIELD
11	L	SOUND SIGNAL FRONT RH (+) [Coupe models]
11	R	SOUND SIGNAL FRONT RH (-) [Roadster models]
12	P	SOUND SIGNAL FRONT RH (+) [Coupe models]
12	G	SOUND SIGNAL FRONT RH (-) [Roadster models]
13	R	SOUND SIGNAL REAR RH (+) [Coupe models]
13	BR	SOUND SIGNAL REAR RH (-) [Roadster models]
14	G	SOUND SIGNAL REAR RH (+) [Coupe models]
14	Y	SOUND SIGNAL REAR RH (-) [Roadster models]
15	B	STRG SW B [For Mexico]
16	L	STRG SW B [Except for Mexico]
18	GR	VEHICLE SPEED SIGNAL (8-PULSE)
19	Y	BATTERY
20	SHIELD	SHIELD

Connector No.	M82
Connector Name	AUDIO UNIT
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	R	AV COMM (H)
22	G	AV COMM (L)
25	SHIELD	SHIELD
26	LG	TEL VOICE SIGNAL (+) [Coupe models]
26	BR	TEL VOICE SIGNAL (-) [Roadster models]
27	V	TEL VOICE SIGNAL (+) [Coupe models]
27	Y	TEL VOICE SIGNAL (-) [Roadster models]
28	O	TELEPHONE ON SIGNAL [Coupe models]
28	G	TELEPHONE ON SIGNAL [Roadster models]

Connector No.	M83
Connector Name	AUDIO UNIT
Connector Type	A12FW



Terminal No.	Color of Wire	Signal Name [Specification]
31	W	SOUND SIGNAL LH (-)
32	B	SOUND SIGNAL LH (+)
33	R	SOUND SIGNAL RH (-)
34	G	SOUND SIGNAL RH (+)
35	SHIELD	SHIELD
38	P	REQUEST (SAT->AUDIO)
39	G	COMM (SAT->AUDIO)
40	L	COMM (AUDIO->SAT)

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TH16MP-NH



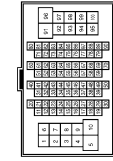
Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
5	R	-
6	B	-
7	P	-
8	B	-
11	B	-
12	Y	-
13	G	-
14	SHIELD	-
15	R	-
16	G	-

A B C D E F G H I J K L M N O P

AV

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

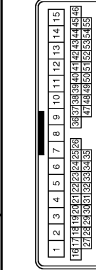
Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	- [Coupe models] - [Roadster models]
2	LG	- [Coupe models] - [Roadster models]
3	O	- [Coupe models] - [Roadster models]
3	B	- [Coupe models] - [Roadster models]
4	W	- [Coupe models] - [Roadster models]
4	G	- [Coupe models] - [Roadster models]
7	LG	- [Coupe models] - [Roadster models]
7	Y	- [Coupe models] - [Roadster models]
8	LG	- [Coupe models] - [Roadster models]
9	Y	- [Coupe models] - [Roadster models]
11	R	- [Coupe models] - [Roadster models]
20	G	- [Coupe models] - [Roadster models]
21	R	- [Coupe models] - [Roadster models]
30	B	- [Coupe models] - [Roadster models]
40	O	- [Coupe models] - [Roadster models]
41	Y	- [Coupe models] - [Roadster models]
42	G	- [Coupe models] - [Roadster models]
43	L	- [Coupe models] - [Roadster models]
44	SB	- [Coupe models] - [Roadster models]
51	R	- [Coupe models] - [Roadster models]
52	G	- [Coupe models] - [Roadster models]
53	SHIELD	- [Coupe models] - [Roadster models]
54	LG	- [Coupe models] - [Roadster models]
54	BR	- [Coupe models] - [Roadster models]
55	V	- [Coupe models] - [Roadster models]
55	Y	- [Coupe models] - [Roadster models]
56	SHIELD	- [Coupe models] - [Roadster models]
57	G	- [Coupe models] - [Roadster models]
57	P	- [Coupe models] - [Roadster models]
58	R	- [Coupe models] - [Roadster models]
58	L	- [Coupe models] - [Roadster models]
59	B	- [Coupe models] - [Roadster models]
60	W	- [Coupe models] - [Roadster models]
61	GR	- [Coupe models] - [Roadster models]
62	B	- [Coupe models] - [Roadster models]
63	Y	- [Coupe models] - [Roadster models]
64	L	- [Coupe models] - [Roadster models]
65	G	- [Coupe models] - [Roadster models]

66	O	- [Coupe models] - [Roadster models]
66	G	- [Coupe models] - [Roadster models]
67	V	- [Coupe models] - [Roadster models]
68	P	- [Coupe models] - [Roadster models]
68	GR	- [Coupe models] - [Roadster models]
69	L	- [Coupe models] - [Roadster models]
69	P	- [Coupe models] - [Roadster models]
70	L	- [Coupe models] - [Roadster models]
70	O	- [Coupe models] - [Roadster models]
80	W	- [Coupe models] - [Roadster models]
80	L	- [Coupe models] - [Roadster models]
81	Y	- [Coupe models] - [Roadster models]
82	W	- [Coupe models] - [Roadster models]
83	B	- [Coupe models] - [Roadster models]
84	R	- [Coupe models] - [Roadster models]
85	G	- [Coupe models] - [Roadster models]
86	SHIELD	- [Coupe models] - [Roadster models]
87	G	- [Coupe models] - [Roadster models]
88	L	- [Coupe models] - [Roadster models]
89	P	- [Coupe models] - [Roadster models]
90	SHIELD	- [Coupe models] - [Roadster models]
92	G	- [Coupe models] - [Roadster models]
92	LG	- [Coupe models] - [Roadster models]
93	R	- [Coupe models] - [Roadster models]
93	V	- [Coupe models] - [Roadster models]
94	SHIELD	- [Coupe models] - [Roadster models]
94	G	- [Coupe models] - [Roadster models]
95	SB	- [Coupe models] - [Roadster models]
95	LG	- [Coupe models] - [Roadster models]
97	LG	- [Coupe models] - [Roadster models]
97	Y	- [Coupe models] - [Roadster models]
98	V	- [Coupe models] - [Roadster models]
98	Y/B	- [Coupe models] - [Roadster models]
99	G	- [Coupe models] - [Roadster models]
100	BR	- [Coupe models] - [Roadster models]
100	Y	- [Coupe models] - [Roadster models]

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



Terminal No.	Color of Wire	Signal Name [Specification]
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10	G	- [Coupe models] - [Roadster models]
10	V	- [Coupe models] - [Roadster models]
11	V	- [Coupe models] - [Roadster models]
11	LG	- [Coupe models] - [Roadster models]
12	LG	- [Coupe models] - [Roadster models]
13	V	- [Coupe models] - [Roadster models]
14	B	- [Coupe models] - [Roadster models]
15	W	- [Coupe models] - [Roadster models]
19	Y	- [Coupe models] - [Roadster models]
23	Y/B	- [Coupe models] - [Roadster models]
44	R	- [Coupe models] - [Roadster models]
44	O	- [Coupe models] - [Roadster models]
50	Y	- [Coupe models] - [Roadster models]
51	Y	- [Coupe models] - [Roadster models]
52	G	- [Coupe models] - [Roadster models]
52	GR	- [Coupe models] - [Roadster models]
53	W	- [Coupe models] - [Roadster models]
54	G	- [Coupe models] - [Roadster models]
55	R	- [Coupe models] - [Roadster models]

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



Terminal No.	Color of Wire	Signal Name [Specification]
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-

Connector No.	M401
Connector Name	AUDIO UNIT
Connector Type	GT13SH-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
43	-	ANTENNA AMP. ON SIGNAL
44	-	ANTENNA SIGNAL

Connector No.	M405
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/1S-HU



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

Connector No.	M408
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/1S-HU



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

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	R1	Connector No.	R11
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	TH16FN-NH	Connector Type	TH12FP-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
5	R	-
6	B	-
7	P	-
8	R	-
11	B	-
12	Y	-
13	G	-
14	SHIELD	-
15	R	-
16	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	B	-
3	R	-
4	B	-
5	V	-
6	R	-
7	SHIELD	-
8	R	-
9	G	-
10	B	-
11	G	-
12	Y	-

Connector No.	R5
Connector Name	MICROPHONE
Connector Type	TK04FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	MICROPHONE SIGNAL
2	SHIELD	SHIELD
4	L	MICROPHONE VCC

ROADSTER

# BOSE AMP.

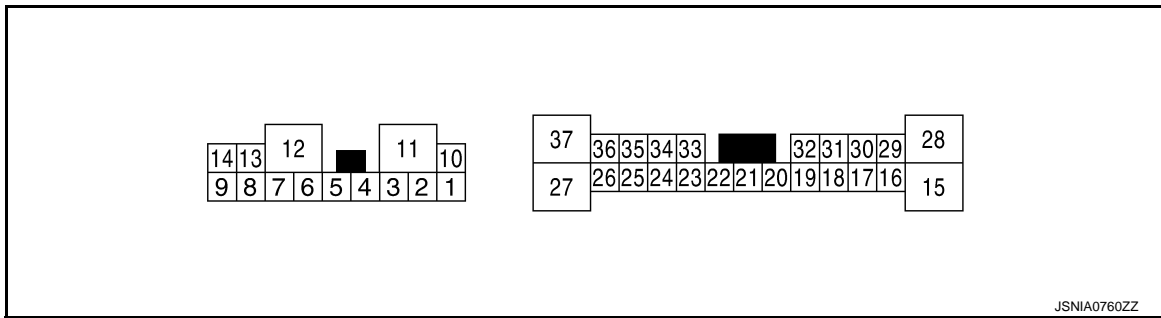
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[BOSE AUDIO WITHOUT NAVIGATION]

ROADSTER : Reference Value

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## TERMINAL LAYOUT



JSNIA0760ZZ

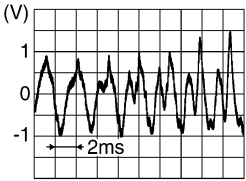
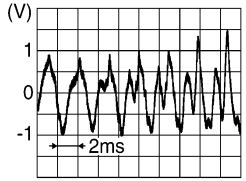
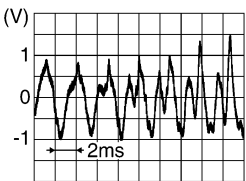
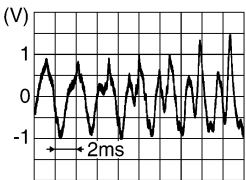
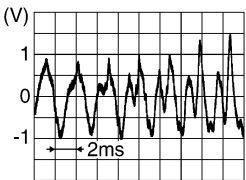
## PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (L)	10 (V)	Sound signal rear woofer LH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>
2 (LG)	3 (Y)	Sound signal rear woofer RH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>
4 (L)	5 (V)	Sound signal front door speaker LH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>
6 (LG)	7 (GR)	Sound signal tweeter LH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>

# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
8 (O)	13 (G)	Sound signal front door speaker RH	Output	Ignition switch ON	Voice output	 <small>SKIB3609E</small>
9 (LG)	14 (Y)	Sound signal rear speaker RH	Output	Ignition switch ON	Voice output	 <small>SKIB3609E</small>
11 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
12 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
15 (L)	28 (P)	Sound signal rear speaker LH	Output	Ignition switch ON	Voice output	 <small>SKIB3609E</small>
17 (R)	Ground	Roof status signal (AUDIO)	Input	Ignition switch ON	Retractable soft top fully open	Battery voltage
					Retractable soft top other than above	0 V
18 (P)	32 (L)	Sound signal front LH	Input	Ignition switch ON	Voice output	 <small>SKIB3609E</small>
19 (R)	20 (G)	Sound signal front RH	Input	Ignition switch ON	Voice output	 <small>SKIB3609E</small>

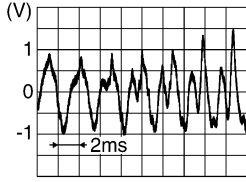
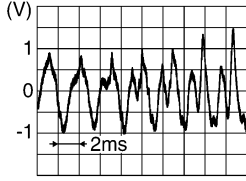
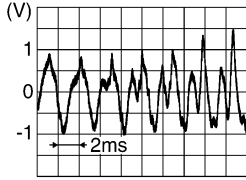
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AV

# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
21 (V)	22 (SB)	Sound signal rear LH	Input	Ignition switch ON	Voice output	
23 (BR)	33 (Y)	Sound signal rear RH	Input	Ignition switch ON	Voice output	
31 (W)	Ground	BOSE amp. ON signal	Input	Ignition switch ACC	—	12.0 V
37 (B)	27 (W)	Sound signal tweeter RH	Output	Ignition switch ON	Voice output	



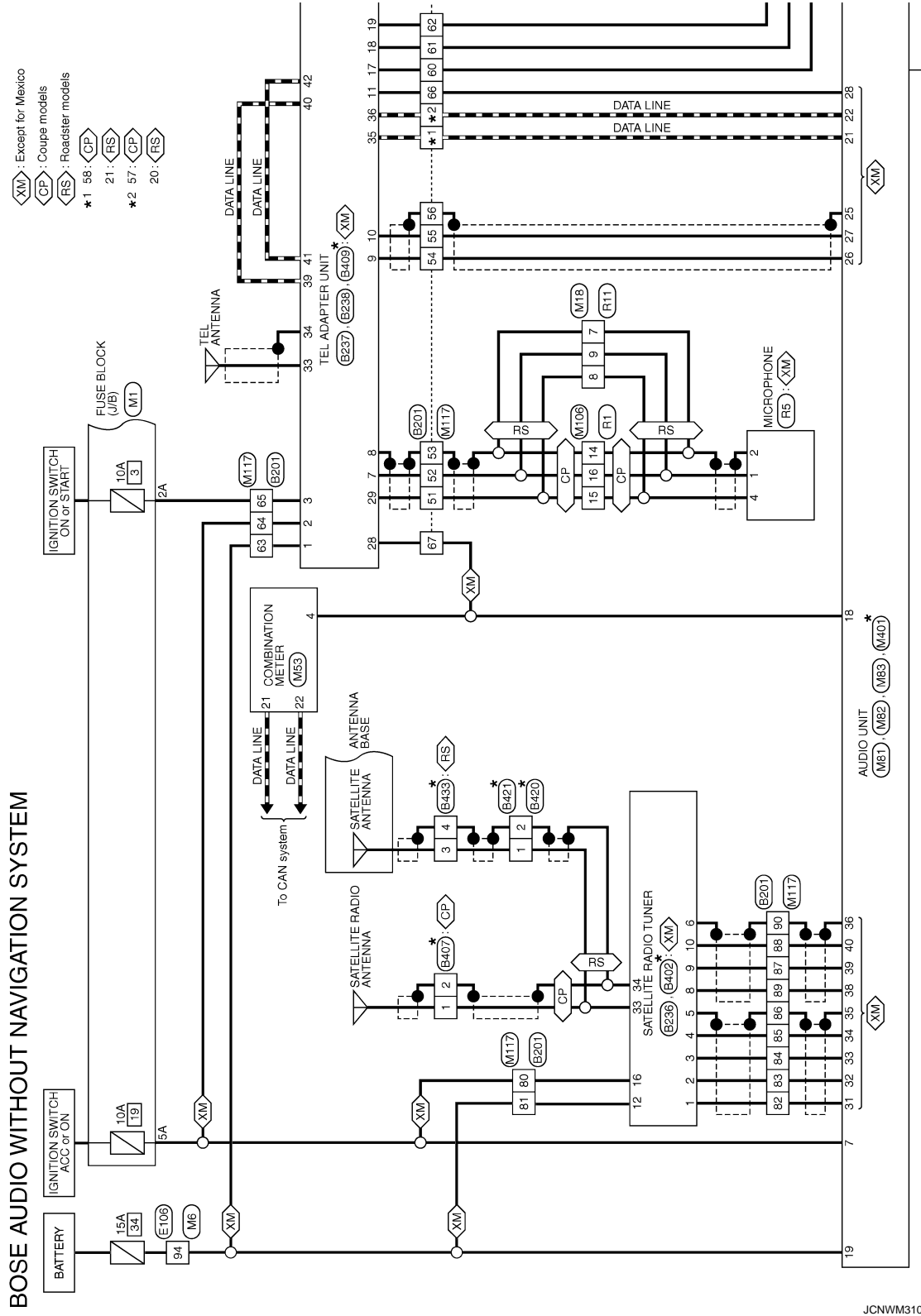
# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## ROADSTER : Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

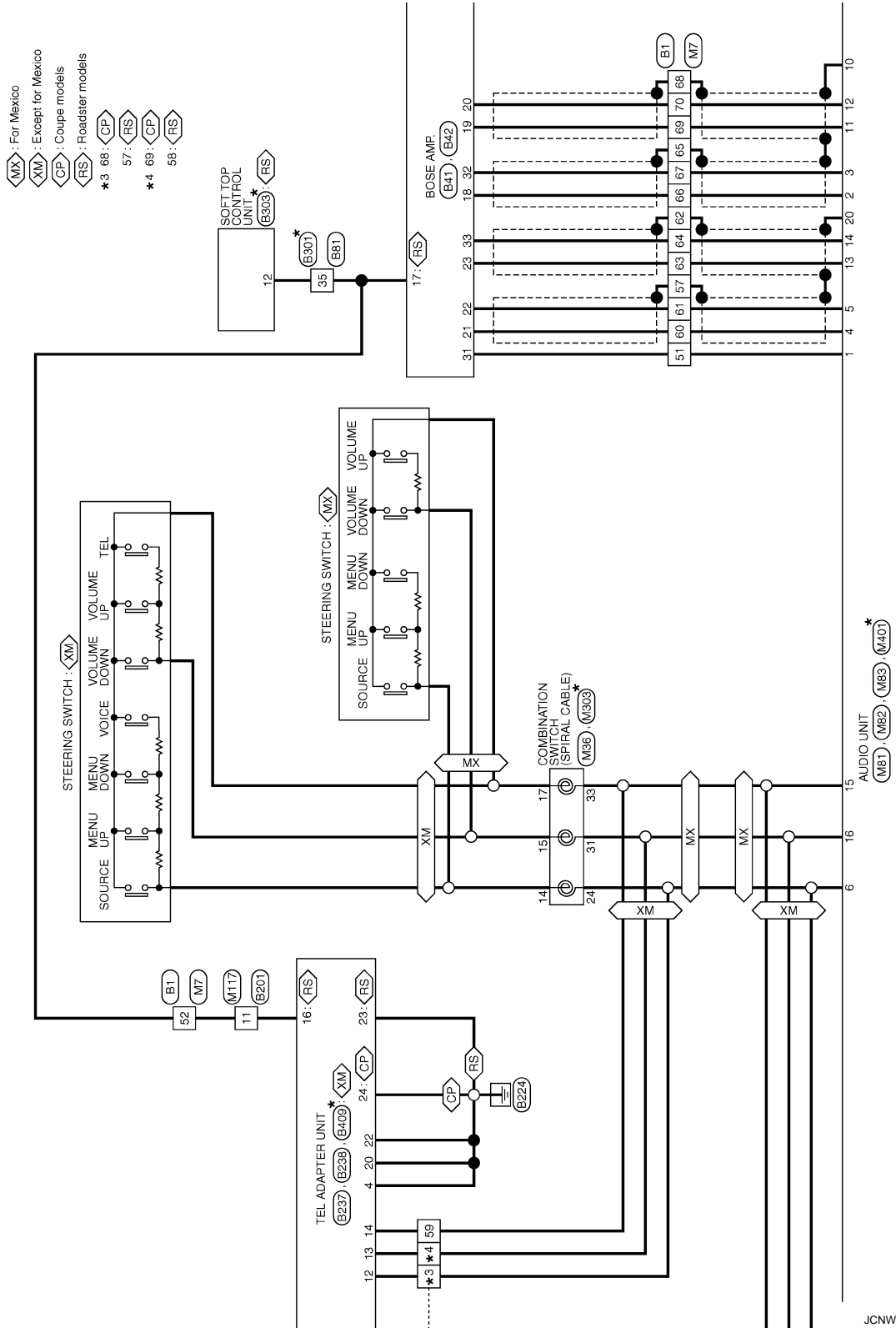
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# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]



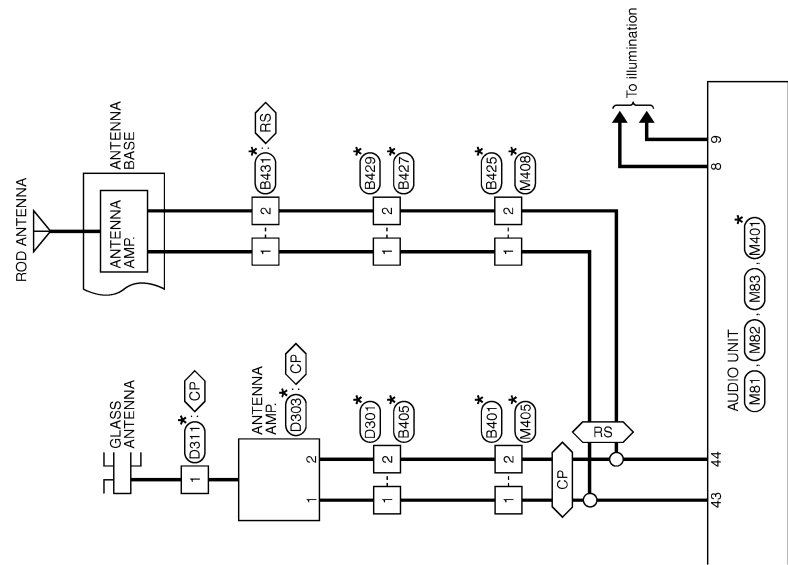
\*: This connector is not shown in "Harness Layout".

JCNWM3102GB



# BOSE AMP.

CP : Coupe models  
RS : Roadster models



JCNWM3104GB

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80PV-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	BG	- [Coupe models]
3	O	- [Roadster models]
4	Y	-
5	W	-
6	V	-
7	LG	-
8	GR	-
9	SB	-
11	Y	-
12	W	-
13	BR	-
14	LG	-
15	B	-
16	V	-
20	SB	-
21	G	-
22	GR	-
23	V	-
24	O	-
25	L	-
26	P	-
31	W	-
32	B	-
33	P	- [Coupe models]
33	W	- [Roadster models]
34	R	-
35	B	-
40	Y	-
41	L	-
42	GR	-
43	BR	-
44	R	-
45	BG	- [Coupe models]
45	O	- [Roadster models]
46	SB	-
47	V	-
48	SHIELD	-

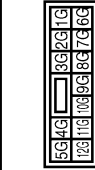
51	W	-
52	R	-
57	SHIELD	-
58	B	-
60	V	-
61	SB	-
62	SHIELD	-
63	BR	-
64	Y	-
65	SHIELD	-
66	P	-
67	L	-
68	SHIELD	-
69	R	-
70	G	-
71	V	-
72	P	-
73	BR	-
74	GR	-
75	O	-
80	Y	-
81	R	-
82	B	-
83	GR	-
84	G	- [Coupe models]
84	L	- [Roadster models]
85	LG	-
86	V	-
87	BR	-
88	GR	-
93	Y	-
94	L	- [Coupe models]
94	G	- [Roadster models]
95	GR	- [Coupe models]
95	LG	- [Roadster models]
96	L	-
97	Y	-
98	W	- [Coupe models]
98	Y/B	- [Roadster models]
99	LG	-
100	B	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS18FN-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	- [Coupe models]
2	Y	- [Roadster models]
3	R	- [Coupe models]
3	LG	- [Roadster models]
4	G	-
5	BG	- [Coupe models]
5	O	- [Roadster models]
6	V	-
7	L	-
11	LG	-
12	Y	-
13	W	-
14	B	-
15	GR	-
16	LG	-

Connector No.	B6
Connector Name	FUSE BLOCK (J/F)
Connector Type	NS12FBR-CS



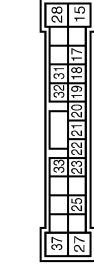
Terminal No.	Color of Wire	Signal Name [Specification]
5G	LG	-
10G	W	- [Coupe models]
10G	P	- [Roadster models]
11G	W	- [Coupe models]
11G	G	- [Roadster models]
12G	Y	-

Connector No.	E29
Connector Name	REAR SPEAKER LH
Connector Type	TK02FBR



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

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FBR-SGA4



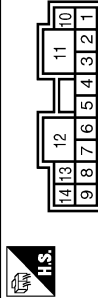
Terminal No.	Color of Wire	Signal Name [Specification]
15	L	SOUND SIGNAL REAR SPEAKER LH (+)
17	R	ROOF STATUS SIGNAL (AUDIO)
18	P	SOUND SIGNAL-FRONT LH (+)
19	R	SOUND SIGNAL-FRONT RH (+)
20	G	SOUND SIGNAL-FRONT RH (-)
21	V	SOUND SIGNAL REAR LH (+)
22	SB	SOUND SIGNAL REAR LH (-)
23	BR	SOUND SIGNAL REAR RH (+)
25	GR	WOOFER AMP. ON SIGNAL
27	W	SOUND SIGNAL FRONT TWEETER RH (-)
28	P	SOUND SIGNAL REAR SPEAKER LH (-)
31	W	BOSE AMP. ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	B	SOUND SIGNAL FRONT TWEETER RH (+)

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AV

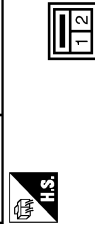
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SCA12FER-SJA2



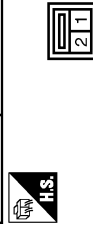
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	SOUND SIGNAL WOOFER (-)
2	SB	SOUND SIGNAL WOOFER (+)
3	SHIELD	SHIELD
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	Y	BATTERY

Connector No.	B45
Connector Name	WIRE TO WIRE
Connector Type	TKO2MR-P

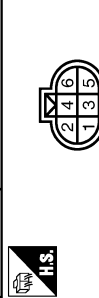


Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	-

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TKO2FER



Connector No.	B43
Connector Name	WOOFER
Connector Type	RS08FGY-PR



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

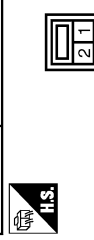
4	W	-
5	BR	-
6	B	-
8	Y	-
9	O	-
14	GR	-
15	SB	-
16	V	-
17	G	-
24	LG	-
25	V	-
31	L	-
32	P	-
34	O	-
35	R	-

Connector No.	B47
Connector Name	REAR SPEAKER LH
Connector Type	TKO2FER



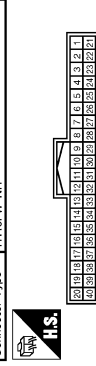
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	-

Connector No.	B48
Connector Name	REAR WOOFER LH
Connector Type	MS02FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	- [With NAVI]
1	L	- [Without NAVI]
2	Y	- [With NAVI]
2	V	- [Without NAVI]

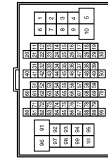
Connector No.	B81
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-NH



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

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH08PW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	[Coupe models]
2	R	[Roadster models]
3	Y	[Coupe models]
3	B	[Roadster models]
4	G	[Coupe models]
4	R	[Roadster models]
7	Y	[Coupe models]
7	LG	[Roadster models]
8	Y	[Coupe models]
8	LG	[Roadster models]
9	Y	[Coupe models]
9	R	[Roadster models]
11	R	[Coupe models]
11	R	[Roadster models]
20	G	[Coupe models]
20	R	[Roadster models]
21	R	[Coupe models]
21	R	[Roadster models]
30	B	[Coupe models]
30	B	[Roadster models]
40	W	[Coupe models]
40	W	[Roadster models]
41	V	[Coupe models]
41	V	[Roadster models]
42	G	[Coupe models]
42	G	[Roadster models]
43	L	[Coupe models]
43	L	[Roadster models]
44	SB	[Coupe models]
44	SB	[Roadster models]
51	P	[Coupe models]
51	P	[Roadster models]
52	L	[Coupe models]
52	L	[Roadster models]
53	SHIELD	[Coupe models]
53	SHIELD	[Roadster models]
54	BR	[Coupe models]
54	BR	[Roadster models]
55	Y	[Coupe models]
55	Y	[Roadster models]
56	SHIELD	[Coupe models]
56	SHIELD	[Roadster models]
57	G	[Coupe models]
57	G	[Roadster models]
58	R	[Coupe models]
58	R	[Roadster models]
58	L	[Coupe models]
58	L	[Roadster models]
59	B	[Coupe models]
59	B	[Roadster models]
60	W	[Coupe models]
60	W	[Roadster models]
61	GR	[Coupe models]
61	GR	[Roadster models]
62	B	[Coupe models]
62	B	[Roadster models]
63	Y	[Coupe models]
63	Y	[Roadster models]
64	Y	[Coupe models]
64	Y	[Roadster models]
65	SB	[Coupe models]
65	SB	[Roadster models]
66	BG	[Coupe models]
66	BG	[Roadster models]
68	O	[Coupe models]
68	O	[Roadster models]
69	Y	[Coupe models]
69	Y	[Roadster models]

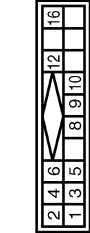
68	P	[Coupe models]
68	GR	[Roadster models]
69	P	[Coupe models]
69	L	[Roadster models]
69	P	[Coupe models]
69	L	[Roadster models]
70	G	[Coupe models]
70	G	[Roadster models]
80	V	[Coupe models]
80	V	[Roadster models]
81	SB	[Coupe models]
81	SB	[Roadster models]
82	G	[Coupe models]
82	G	[Roadster models]
83	R	[Coupe models]
83	R	[Roadster models]
84	W	[Coupe models]
84	W	[Roadster models]
85	B	[Coupe models]
85	B	[Roadster models]
86	SHIELD	[Coupe models]
86	SHIELD	[Roadster models]
87	O	[Coupe models]
87	O	[Roadster models]
88	BR	[Coupe models]
88	BR	[Roadster models]
89	Y	[Coupe models]
89	Y	[Roadster models]
90	SHIELD	[Coupe models]
90	SHIELD	[Roadster models]
92	SR	[Coupe models]
92	SR	[Roadster models]
93	Y	[Coupe models]
93	Y	[Roadster models]
94	SHIELD	[Coupe models]
94	SHIELD	[Roadster models]
94	G	[Coupe models]
94	G	[Roadster models]
95	GR	[Coupe models]
95	GR	[Roadster models]
95	LG	[Coupe models]
95	LG	[Roadster models]
97	Y	[Coupe models]
97	Y	[Roadster models]
98	W	[Coupe models]
98	W	[Roadster models]
98	Y/B	[Coupe models]
98	Y/B	[Roadster models]
99	G	[Coupe models]
99	G	[Roadster models]
100	BR	[Coupe models]
100	BR	[Roadster models]

Connector No.	B229
Connector Name	REAR SPEAKER RH
Connector Type	TK02FER



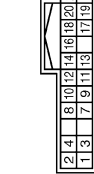
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	[Coupe models]
2	Y	[Roadster models]

Connector No.	B236
Connector Name	SATELLITE RADIO TUNER
Connector Type	A18FW



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

Connector No.	B237
Connector Name	TEL ADAPTER UNIT
Connector Type	TH22FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	BATTERY
2	V	ACC
3	SB	IGNITION SIGNAL
4	B	GND
7	L	MICROPHONE SIGNAL
8	SHIELD	MICROPHONE GND
9	BR	TEL VOICE SIGNAL (+)
10	Y	TEL VOICE SIGNAL (-)
11	BG	TELEPHONE ON SIGNAL [Coupe models]
11	O	TELEPHONE ON SIGNAL [Roadster models]
12	P	STRG SW A (INPUT)

13	L	STRG SW B (INPUT)
14	B	STRG SW GND (INPUT)
16	R	ROOF STATUS SIGNAL (AUDIO)
17	W	STRG SW A (OUTPUT)
18	GR	STRG SW B (OUTPUT)
19	B	STRG SW GND (OUTPUT)
20	B	CONTROL SIGNAL
22	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
28	V	VEHICLE SPEED SIGNAL (9-PULSE)
29	P	MICROPHONE VCC

Connector No.	B238
Connector Name	TEL ADAPTER UNIT
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
35	R	AV COMM (H)
36	G	AV COMM (L)
39	L	AV COMM (H)
40	L	AV COMM (H)
41	Y	AV COMM (L)
42	Y	AV COMM (L)

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	[Coupe models]
2	Y	[Roadster models]

A B C D E F G H I J K L M N O P

AV

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B405
Connector Name	WIRE TO WIRE
Connector Type	GT13SSN-1 / IPP-HU(21)



12	SB	ROOF STATUS SIGNAL (AUDIO)
14	L	ROOF OPEN / CLOSE SWITCH (CLOSE)
15	LG	ROOF OPEN / CLOSE SWITCH (OPEN)
16	V	TRUNK ROOM LAMP SWITCH
17	BG	CAN-H
18	P	CAN-L
19	LG	LOCAL COMMUNICATION (POWER WINDOW)
20	V	LOCAL COMMUNICATION (BCM)
21	BR	SENSOR POWER SUPPLY (ROOF STRIKER SENSOR RH)
29	DG	GND
35	P	ROOF OPEN / CLOSE SWITCH (GND)

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

Connector No.	B407
Connector Name	SATELLITE RADIO ANTENNA
Connector Type	GT16C-1PP-HU(A)



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

Connector No.	B409
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-1S-HU



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

Connector No.	B301
Connector Name	WIRE TO WIRE
Connector Type	TH4GMF-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	LG	-
5	L	-
6	P	-
8	O	-
9	Y	-
14	BR	-
15	BR	-
16	W	-
17	DG	-
24	V	-
25	LG	-
31	BG	-
32	P	-
34	O	-
35	SB	-

Connector No.	B303
Connector Name	SOFT TOP CONTROL UNIT
Connector Type	TH4GFB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	SENSOR POWER SUPPLY (ROOF STRIKER SENSOR LH)
3	DG	ROOF STRIKER SENSOR RH
4	W	ROOF STRIKER SENSOR LH
8	Y	REVERSE SIGNAL
9	SB	POWER CONDITION (POWER WINDOW)
10	O	TRUNK LID OPEN SIGNAL
11	O	ROOF STATUS SIGNAL (INDICATOR)

Connector No.	B244
Connector Name	WIRE TO WIRE
Connector Type	TK02FB



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

Connector No.	B245
Connector Name	REAR SPEAKER RH
Connector Type	TK02FB



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

Connector No.	B249
Connector Name	REAR WOOFER RH
Connector Type	NS02FW-CS



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



BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B420
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU(A)



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

Connector No.	B421
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU(A)



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

Connector No.	B425
Connector Name	WIRE TO WIRE
Connector Type	GT135CN-1/1PP-HU



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

Connector No.	B427
Connector Name	WIRE TO WIRE
Connector Type	GT135SN-1/1PP-HU(2)



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

Connector No.	B428
Connector Name	WIRE TO WIRE
Connector Type	GT135S-1/1S-HU(2)



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

Connector No.	B431
Connector Name	ANTENNA BASE
Connector Type	GT135SN-1/1PP-HU



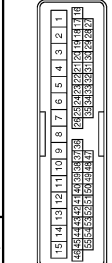
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP ON SIGNAL
2	-	AM-FM MAIN

Connector No.	B433
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU(A)



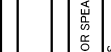
Terminal No.	Color of Wire	Signal Name [Specification]
3	-	SATELLITE ANTENNA SIGNAL
4	SHIELD	SHIELD

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



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	Y	-
9	G	-
10	BG	- [Coupe models]
10	O	- [Roadster models]
11	P	- [With BOSE system]
11	V	- [Without BOSE system]
12	L	-
13	B	-
14	SB	- [Coupe models]
14	Y	- [Roadster models]
15	W	-
19	G	-
23	R	-
44	L	-
47	B	-
48	SB	-
48	W	-
50	LG	-
51	R	-

52	V	-
53	BG	- [Coupe models]
53	O	- [Roadster models]
54	GR	-
55	G	-



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

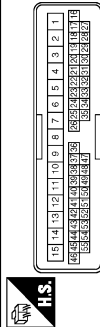
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	- [With BOSE system]
2	V	- [Without BOSE system]

A  
B  
C  
D  
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I  
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M  
N  
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P

AV

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
10	V	-
11	LG	-
12	P	- [With BOSE system]
13	LG	- [Without BOSE system]
14	V	- [Coupe models without BOSE system]
15	L	- [Except for coupe models without BOSE system]
16	B	-
17	W	-
18	P	-
19	P	-
20	L	-
21	L	-
22	L	-
23	L	-
24	L	-
25	Y	-
26	Y	-
27	Y	-
28	G	-
29	BG	- [Coupe models]
30	O	- [Roadster models]
31	GR	-
32	GR	-
33	L	-

Connector No.	D36
Connector Name	FRONT DOOR SPEAKER RH
Connector Type	NS20FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [Coupe models without BOSE system]
1	L	- [Except for coupe models without BOSE system]
2	P	- [With BOSE system]
2	LG	- [Without BOSE system]

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Type	GT15SS-1/S-HU(21)



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

Connector No.	D303
Connector Name	ANTENNA AMP.
Connector Type	GT15SC-1/S-HU



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

Connector No.	D311
Connector Name	GLASS ANTENNA
Connector Type	PO1FB-A



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

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	Y	-
3	L	-
4	L	-
5	B	-
6	P	-
7	B	-
8	P	-
9	L	- [Coupe models]
10	B	- [Roadster models]
11	V	-
12	R	-
13	L	-
14	GR	-
15	P	-
16	W	-
17	SB	-
18	LG	-
19	BR	-
20	LG	-
21	G	- [Coupe models]
22	L	- [Roadster models]
23	L	-
24	Y	-
25	P	-
26	L	-
27	P	-
28	L	-
29	L	-
30	L	-
31	L	-
32	Y	-
33	P	-
34	L	-
35	BR	-
36	V	-
37	Y	-
38	R	-
39	B	-
40	W	-
41	LG	-
42	SB	-
43	G	-
44	R	- [Roadster models with M/T]
45	GR	- [Except for roadster models with M/T]
46	BG	- [Coupe models]
47	O	- [Roadster models]
48	W	-
49	P	-
50	SHIELD	-
51	L	-

Terminal No.	Color of Wire	Signal Name [Specification]
1A	V	-
2A	G	-
3A	L	-
4A	P	-
5A	L	-
6A	Y	-
7A	BR	-
8A	L	-

70	P	-
80	W	-
81	P	-
82	G	-
83	V	-
84	L	-
85	BG	- [Coupe models]
86	LG	- [Roadster models]
87	R	-
89	P	-
91	W	-
92	L	-
93	G	-
94	Y	-
96	Y	-
97	BR	-
88	GR	-
89	LG	-
100	BG	- [Coupe models]
100	O	- [Roadster models]

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



BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	MS10PW-CS



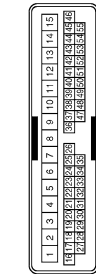
49	Y	-	[Except for roadster models with M/T]
50	W	-	-
51	R	-	-
52	L	-	- [With A/T]
53	W	-	- [With M/T]
54	G	-	-
55	R	-	-

Connector No.	M6
Connector Name	WIPE TO WIPE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1B	Y	-
3B	P	-
4B	G	-
5B	O	-
6B	Y	-
8B	R	-
9B	SB	-

Connector No.	M5
Connector Name	WIPE TO WIPE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	Y	-
9	G	-
10	V	-
11	V	-
12	L	-
13	B	-
14	Y	-
15	W	-
19	Y	-
23	Y/B	-
44	L	-
47	B	-
48	SB	-
48	SB	- [Roadster models with M/T]

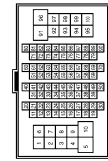
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	L	-
4	L	-
7	B	-
8	P	-
9	L	- [Coupe models]
9	B	- [Roadster models]
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-
17	BR	-
20	GR	-
21	BR	- [Coupe models]
21	R	- [Roadster models]
31	L	- [Roadster models with M/T]
31	BR	- [Except for roadster models with M/T]
32	Y	- [Roadster models with M/T]
32	V	- [Except for roadster models with M/T]
33	P	-
34	L	-
35	BR	-
36	SB	-
37	Y	-
38	LG	-
38	SB	-
40	W	-

41	LG	-
42	R	-
43	G	-
44	R	- [With A/T]
44	R	- [With M/T]
45	O	-
46	G	-
47	BR	-
58	SHIELD	-
59	L	-
70	R	-
80	LG	-
81	GR	-
92	V	-
93	V	-
94	L	-
95	BR	-
96	Y	-
97	V	- [Roadster models with M/T]
97	G	- [Except for roadster models with M/T]
99	P	-
99	W	-
99	P	-
99	P	-
94	Y	-
96	P	-
97	GR	-
98	O	-
99	W	-
100	R	-

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

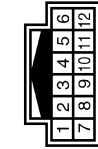
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	THEBMW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	LG	-
4	O	-
6	V	-
7	LG	-
8	SB	-
9	GR	-
11	Y	-
12	V	-
13	BR	-
14	V	-
15	B	-
16	V	-
20	SB	-
21	G	-
22	GR	-
23	V	-
24	R	-
25	L	-
26	P	-
31	W	-
32	B	-
33	W	-
34	R	-
35	B	-
40	L	-
41	R	-
42	GR	-
43	R	- [Coupe models]
43	V	- [Roadster models]
44	R	-
45	O	-
46	G	- [With A/T]
46	SB	- [With M/T]
47	R	- [With A/T]
47	V	- [With M/T]
48	SHIELD	-

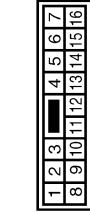
51	V	-
52	R	-
57	SHIELD	-
58	B	-
60	L	- [Coupe models]
60	V	- [Roadster models]
61	R	- [Coupe models]
61	SB	- [Roadster models]
62	SHIELD	-
63	R	- [Coupe models]
63	BR	- [Roadster models]
64	G	- [Coupe models]
64	Y	- [Roadster models]
65	SHIELD	-
66	LG	-
66	P	- [Coupe models]
67	V	- [Coupe models]
67	L	- [Roadster models]
68	SHIELD	-
68	L	- [Coupe models]
68	R	- [Roadster models]
69	P	- [Coupe models]
70	G	- [Coupe models]
70	G	- [Roadster models]
71	V	-
72	P	-
73	BR	-
74	GR	-
75	O	-
80	Y	-
81	W	-
82	BR	-
83	GR	-
84	L	-
85	LG	-
86	V	-
87	BR	-
88	SB	-
89	SB	-
94	SB	- [Coupe models]
94	L	- [Roadster models]
95	GR	- [Coupe models]
95	W	- [Roadster models]
96	L	-
97	LG	-
97	Y	- [Coupe models]
97	Y	- [Roadster models]
98	BG	- [Coupe models]
98	Y/B	- [Roadster models]
99	W	-
100	B	-

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	R	-
4	B	-
5	V	-
6	B	-
7	SHIELD	-
8	R	-
9	G	-
10	B	-
11	G	-
12	Y	-

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	-
3	LG	-
4	LG	-
5	V	-
6	V	-
7	L	-
11	LG	-
12	Y	-
13	W	-
14	L	-

15	W	-
16	L	-

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V



Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
25	SB	-
26	W	- [Coupe models]
26	BR	- [Roadster models]
31	L	-
32	Y	-
33	B	-
34	LG	-

Connector No.	M41
Connector Name	TWEETER LH
Connector Type	TK02FBR



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

JCNWM3112GB

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M42
Connector Name	TWEETER RH
Connector Type	TK2FBR



Connector No.	M81
Connector Name	AUDIO UNIT
Connector Type	TH18PT-C32



Connector No.	M82
Connector Name	AUDIO UNIT
Connector Type	TH12FW-NH



Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TH16MP-NH



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	BOSE AMP ON SIGNAL
2	LG	SOUND SIGNAL FRONT LH (+) [Coupe models]
3	P	SOUND SIGNAL FRONT LH (-) [Roadster models]
4	V	SOUND SIGNAL FRONT LH (+) [Coupe models]
5	L	SOUND SIGNAL REAR LH (+) [Coupe models]
6	V	SOUND SIGNAL REAR LH (-) [Roadster models]
7	L	STRG SW A [For Mexico]
8	W	ACC
9	W	ILL (-) [Coupe models]
10	O	ILL (-) [Roadster models]
11	R	SHIELD
12	L	SOUND SIGNAL FRONT RH (+) [Coupe models]
13	P	SOUND SIGNAL FRONT RH (-) [Roadster models]
14	G	SOUND SIGNAL FRONT RH (+) [Coupe models]
15	R	SOUND SIGNAL REAR RH (+) [Coupe models]
16	G	SOUND SIGNAL REAR RH (-) [Roadster models]
17	B	STRG SW B [For Mexico]
18	GR	STRG SW B [Except for Mexico]
19	Y	BATTERY
20	SHIELD	SHIELD

Terminal No.	Color of Wire	Signal Name [Specification]
21	R	AV COMM (H)
22	G	AV COMM (L)
25	SHIELD	SHIELD
26	LG	TEL VOICE SIGNAL (+) [Coupe models]
27	BR	TEL VOICE SIGNAL (-) [Roadster models]
28	V	TEL VOICE SIGNAL (+) [Coupe models]
29	Y	TEL VOICE SIGNAL (-) [Roadster models]
30	O	TELEPHONE ON SIGNAL [Coupe models]
31	G	TELEPHONE ON SIGNAL [Roadster models]

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
5	R	-
6	B	-
7	P	-
8	B	-
11	B	-
12	Y	-
13	G	-
14	SHIELD	-
15	R	-
16	G	-

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH24FW-NH



Connector No.	M83
Connector Name	AUDIO UNIT
Connector Type	A12FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	O	IGNITION POWER SUPPLY
3	L	VEHICLE SPEED SIGNAL (2-PULSE)
4	Y	VEHICLE SPEED SIGNAL (8-PULSE)
5	B	ILLUMINATION CONTROL SIGNAL
6	R	ROOF STATUS SIGNAL
9	BR	COMMUNICATION SIGNAL (TRIPLE METER-METER)
10	L	COMMUNICATION SIGNAL (TRIPLE METER-METER)
12	G	S-MODE SWITCH SIGNAL
15	L	ACC POWER SUPPLY
16	R	AIR BAG SIGNAL
17	B	GROUND
18	V	AMBIENT SENSOR SIGNAL
19	G	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
20	GR	AMBIENT SENSOR GROUND
21	L	CAN-H
22	P	CAN-L
23	B	GROUND
24	Y	FUEL LEVEL SENSOR GROUND

Terminal No.	Color of Wire	Signal Name [Specification]
31	W	SOUND SIGNAL LH (-)
32	B	SOUND SIGNAL LH (+)
33	R	SOUND SIGNAL RH (-)
34	G	SOUND SIGNAL RH (+)
35	SHIELD	SHIELD
38	P	REQUEST (SAT->AUDIO)
39	G	COMM (SAT->AUDIO)
40	L	COMM (AUDIO->SAT)

Terminal No.	Color of Wire	Signal Name [Specification]
32	34	40
31	33	35
36	38	39

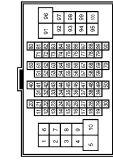
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A B C D E F G H I J K L M N O P

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

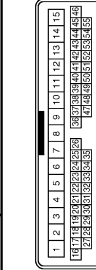
Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	- [Coupe models] - [Roadster models]
2	LG	- [Roadster models]
3	O	- [Coupe models]
3	B	- [Roadster models]
4	W	- [Coupe models]
4	G	- [Roadster models]
7	LG	- [Coupe models]
7	Y	- [Roadster models]
8	LG	- [Coupe models]
9	Y	- [Roadster models]
11	R	- [Coupe models]
20	G	- [Roadster models]
21	R	- [Coupe models]
30	B	- [Roadster models]
40	O	- [Coupe models]
41	Y	- [Roadster models]
42	G	- [Coupe models]
43	L	- [Roadster models]
44	SB	- [Coupe models]
51	R	- [Roadster models]
52	G	- [Coupe models]
53	SHIELD	- [Roadster models]
54	LG	- [Coupe models]
54	BR	- [Roadster models]
55	V	- [Coupe models]
55	Y	- [Roadster models]
56	SHIELD	- [Coupe models]
57	G	- [Roadster models]
57	P	- [Coupe models]
58	R	- [Roadster models]
58	L	- [Coupe models]
59	B	- [Roadster models]
60	W	- [Coupe models]
61	GR	- [Roadster models]
62	B	- [Coupe models]
63	Y	- [Roadster models]
64	L	- [Coupe models]
65	G	- [Roadster models]

66	O	- [Coupe models]
66	G	- [Roadster models]
67	V	- [Coupe models]
68	P	- [Roadster models]
68	GR	- [Coupe models]
69	L	- [Roadster models]
69	P	- [Coupe models]
70	L	- [Roadster models]
70	O	- [Coupe models]
80	W	- [Roadster models]
80	L	- [Coupe models]
81	Y	- [Roadster models]
82	W	- [Coupe models]
83	B	- [Roadster models]
84	R	- [Coupe models]
85	G	- [Roadster models]
86	SHIELD	- [Coupe models]
87	G	- [Roadster models]
88	L	- [Coupe models]
89	P	- [Roadster models]
90	SHIELD	- [Coupe models]
92	G	- [Roadster models]
92	LG	- [Coupe models]
93	R	- [Roadster models]
93	V	- [Coupe models]
94	SHIELD	- [Roadster models]
94	G	- [Coupe models]
95	SB	- [Roadster models]
95	LG	- [Coupe models]
97	LG	- [Roadster models]
97	Y	- [Coupe models]
98	V	- [Roadster models]
98	Y/B	- [Coupe models]
99	G	- [Roadster models]
100	BR	- [Coupe models]
100	Y	- [Roadster models]

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



Terminal No.	Color of Wire	Signal Name [Specification]
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10	G	- [Coupe models]
10	V	- [Roadster models]
11	V	- [Coupe models]
11	LG	- [Roadster models]
12	LG	- [Coupe models]
13	V	- [Roadster models]
14	B	- [Coupe models]
15	W	- [Roadster models]
19	Y	- [Coupe models]
23	Y/B	- [Roadster models]
44	R	- [Coupe models]
44	O	- [Roadster models]
50	Y	- [Coupe models]
51	Y	- [Roadster models]
52	G	- [Coupe models with M/T]
52	GR	- [Except for roadster models with M/T]
53	W	- [Coupe models]
54	G	- [Roadster models]
55	R	- [Coupe models]

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



Terminal No.	Color of Wire	Signal Name [Specification]
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-

Connector No.	M401
Connector Name	AUDIO UNIT
Connector Type	GT13SH-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
43	-	ANTENNA AMP. ON SIGNAL
44	-	ANTENNA SIGNAL

Connector No.	M405
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/1S-HU



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

Connector No.	M408
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/1S-HU



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

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH16FN-NH



6	5	4	3	2	1
18	15	14	13	12	11
10	9				

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
5	R	-
6	B	-
7	P	-
8	R	-
11	B	-
12	Y	-
13	G	-
14	SHIELD	-
15	R	-
16	G	-

Connector No.	R5
Connector Name	MICROPHONE
Connector Type	TK04FW



1	2	3	4
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Terminal No.	Color of Wire	Signal Name [Specification]
1	P	MICROPHONE SIGNAL
2	SHIELD	SHIELD
4	L	MICROPHONE VCC

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12FP-NH



6	5	4	3	2	1
12	11	10	9	8	7

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	B	-
3	R	-
4	B	-
5	V	-
6	R	-
7	SHIELD	-
8	R	-
9	G	-
10	B	-
11	G	-
12	Y	-

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# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

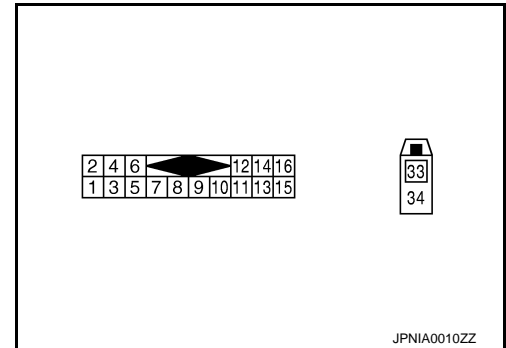
[BOSE AUDIO WITHOUT NAVIGATION]

## SATELLITE RADIO TUNER

Reference Value

INFOID:000000005511759

TERMINAL LAYOUT



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	
4 (B)	3 (W)	Satellite radio sound signal RH	Output	Ignition switch ON	When satellite radio mode is selected	
5	—	Shield	—	—	—	—
6	—	Shield	—	—	—	—
8 (Y)	Ground	Request signal (SAT TO AUDIO)	Output	Ignition switch ON	When satellite radio mode is selected	
9 (O)	Ground	Communication signal (SAT→AUDIO)	Output	Ignition switch ON	When satellite radio mode is selected	



# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

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

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# SATELLITE RADIO TUNER

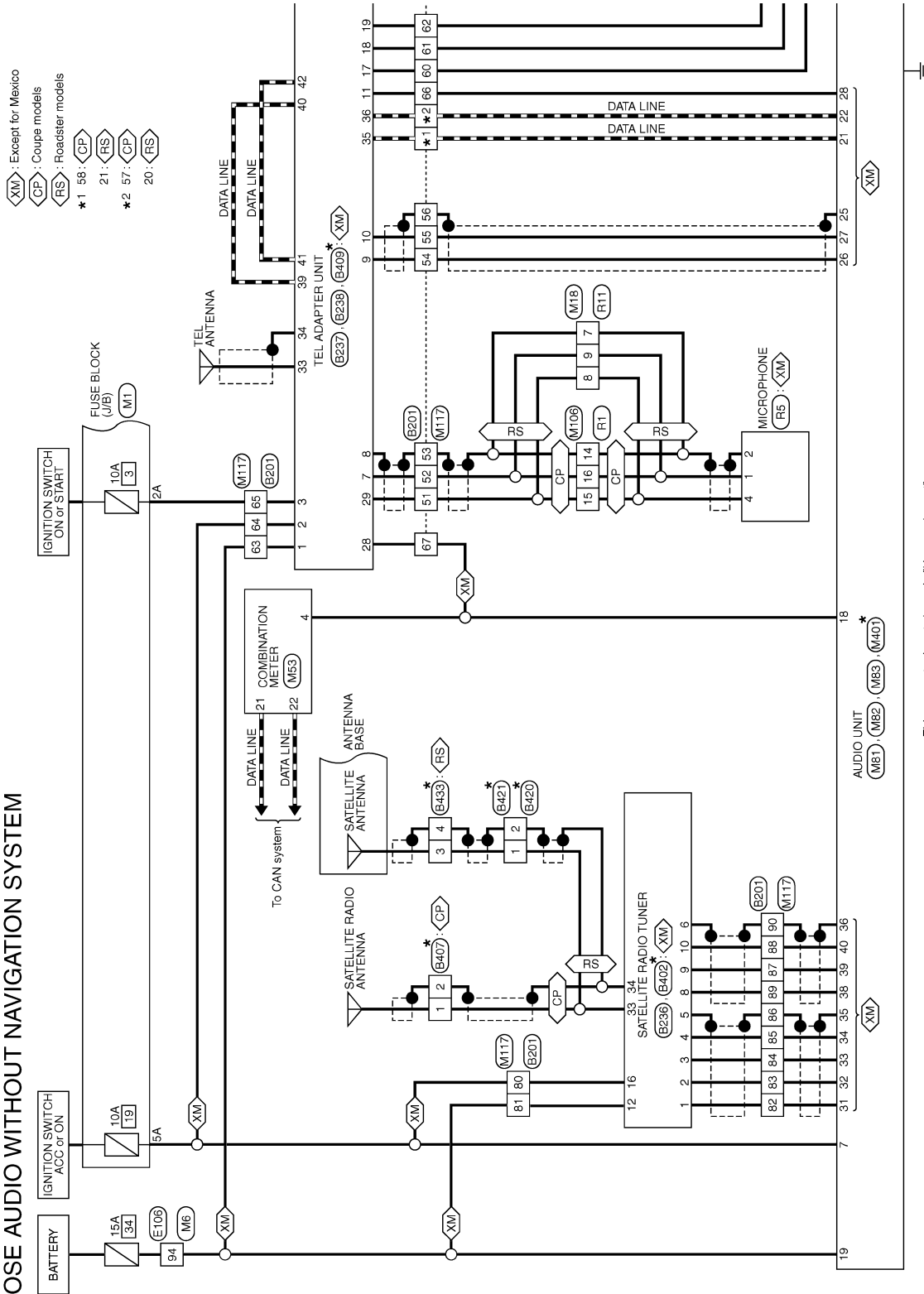
[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

## Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

INFOID:000000005511760

### BOSE AUDIO WITHOUT NAVIGATION SYSTEM



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

2009/07/10

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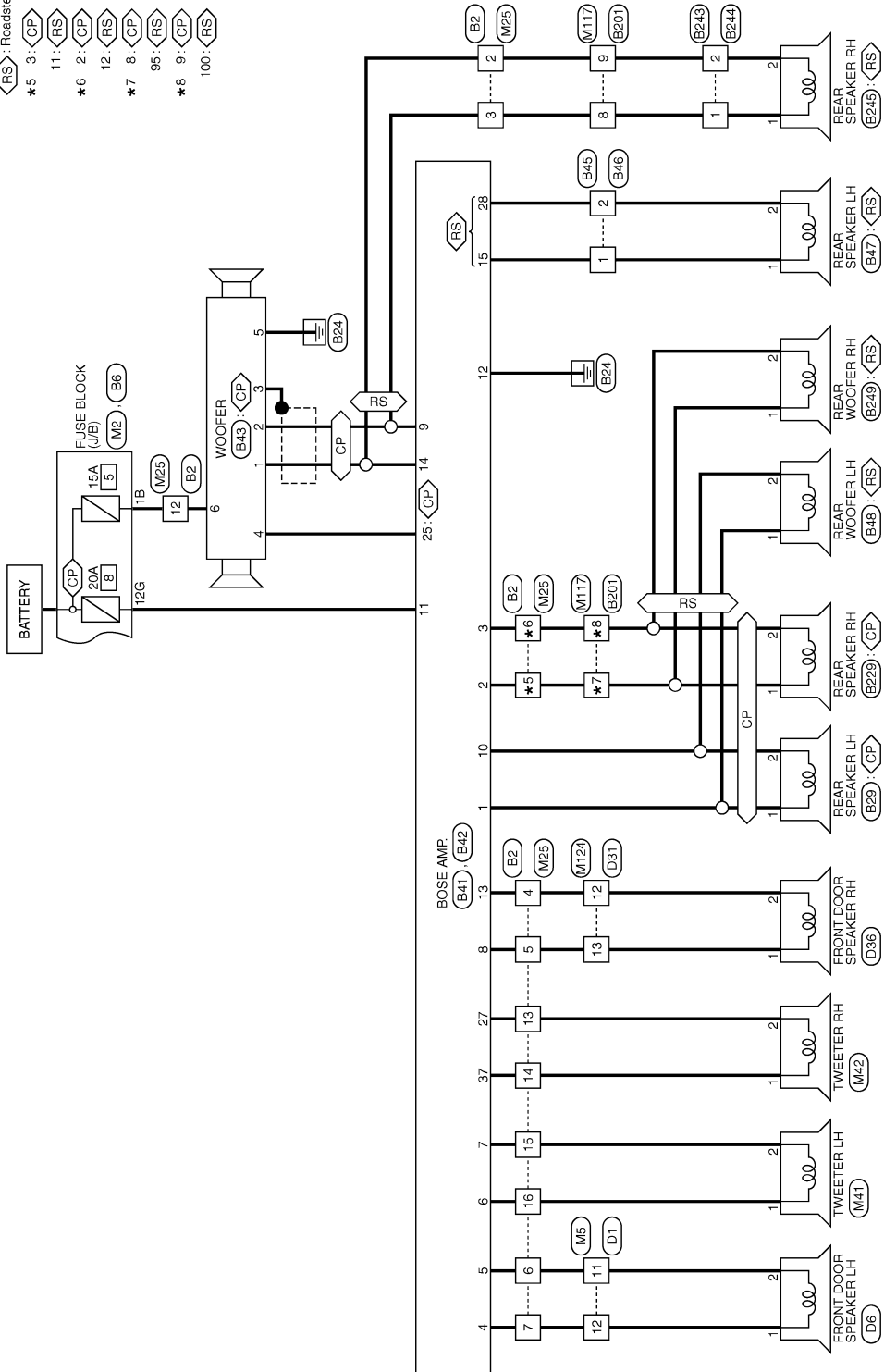
# SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

CP: Coupe models  
RS: Roadster models

\*5 3 CP  
11 RS  
\*6 2 CP  
12 RS  
\*7 8 CP  
95 RS  
\*8 9 CP  
100 RS



AUDIO UNIT  
(M81) (M82) (M83) (M40)\*

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

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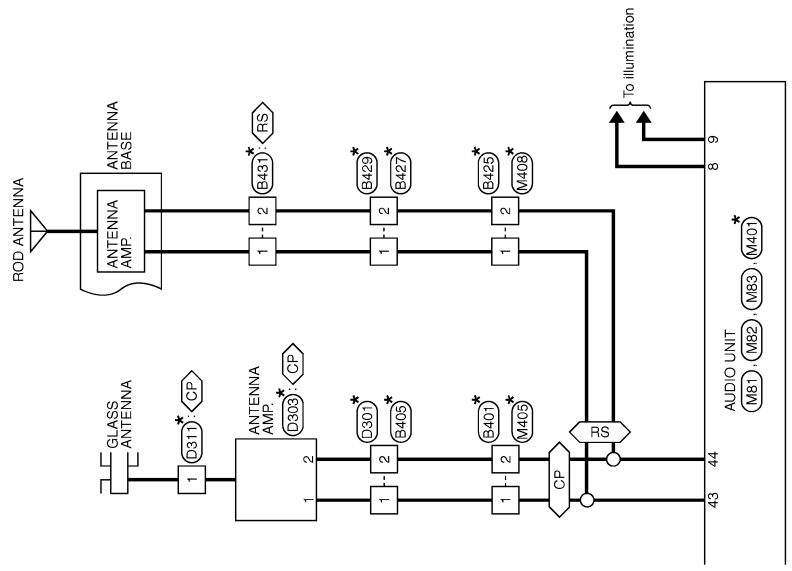
# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

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CP: Coupe models  
RS: Roadster models



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

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AV

# SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

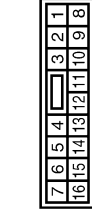
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	THB07V-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	BG	- [Coupe models]
3	O	- [Roadster models]
4	W	-
6	V	-
7	LG	-
8	GR	-
9	SB	-
11	Y	-
12	W	-
13	BR	-
14	LG	-
15	B	-
16	V	-
20	SB	-
21	G	-
22	GR	-
23	V	-
24	O	-
25	L	-
26	P	-
31	W	-
32	B	-
33	P	- [Coupe models]
33	W	- [Roadster models]
34	R	-
35	B	-
40	Y	-
41	L	-
42	GR	-
43	BR	-
44	R	-
45	BG	- [Coupe models]
45	O	- [Roadster models]
46	SB	-
47	V	-
48	SHIELD	-

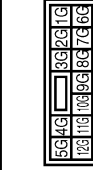
51	W	-
52	R	-
57	SHIELD	-
58	B	-
60	V	-
61	SB	-
62	SHIELD	-
63	BR	-
64	Y	-
65	SHIELD	-
66	P	-
67	L	-
68	SHIELD	-
69	R	-
70	G	-
71	V	-
72	P	-
73	BR	-
74	GR	-
75	O	-
80	Y	-
81	R	-
82	B	-
83	GR	-
84	G	-
85	L	-
86	V	-
87	BR	-
88	GR	-
93	Y	-
94	L	- [Coupe models]
94	G	- [Roadster models]
95	GR	- [Coupe models]
95	LG	- [Roadster models]
96	L	-
97	Y	-
98	W	- [Coupe models]
98	Y/B	- [Roadster models]
99	LG	-
100	B	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	- [Coupe models]
2	Y	- [Roadster models]
3	R	- [Coupe models]
3	LG	- [Roadster models]
4	G	-
5	BG	- [Coupe models]
5	O	- [Roadster models]
6	V	-
7	L	-
11	LG	-
12	Y	-
13	W	-
14	B	-
15	GR	-
16	LG	-

Connector No.	B3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



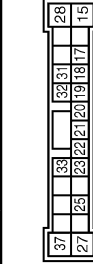
Terminal No.	Color of Wire	Signal Name [Specification]
5/G	LG	-
10G	W	- [Coupe models]
10G	P	- [Roadster models]
11G	W	- [Coupe models]
11G	G	- [Roadster models]
12G	Y	-

Connector No.	B29
Connector Name	REAR SPEAKER LH
Connector Type	TK02FBR



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

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FBR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	L	SOUND SIGNAL REAR SPEAKER LH (+)
17	R	ROOF STATUS SIGNAL (AUDIO)
18	P	SOUND SIGNAL FRONT LH (+)
19	R	SOUND SIGNAL FRONT RH (+)
20	G	SOUND SIGNAL FRONT RH (-)
21	V	SOUND SIGNAL REAR LH (+)
22	SB	SOUND SIGNAL REAR LH (-)
23	BR	SOUND SIGNAL REAR RH (+)
25	GR	WOOFER AMP. ON SIGNAL
27	W	SOUND SIGNAL FRONT TWEETER RH (-)
28	P	SOUND SIGNAL REAR SPEAKER LH (-)
31	W	BOSE AMP. ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	B	SOUND SIGNAL FRONT TWEETER RH (+)

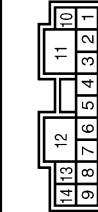
# SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA1ZPER-SJA2



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	SOUND SIGNAL WOOFER (-)
2	SB	SOUND SIGNAL WOOFER (+)
3	SHIELD	SHIELD
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	Y	BATTERY

Connector No.	B45
Connector Name	WIRE TO WIRE
Connector Type	TKOZM8R-P



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

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TKOZFER



Connector No.	B47
Connector Name	REAR SPEAKER LH
Connector Type	TKOZFER



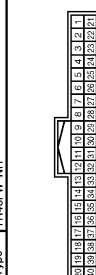
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	P	

Connector No.	B48
Connector Name	REAR WOOFER LH
Connector Type	MSO2FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	- [With NAVI]
1	L	- [Without NAVI]
2	Y	- [With NAVI]
2	V	- [Without NAVI]

Connector No.	B81
Connector Name	WIRE TO WIRE
Connector Type	THO2FW-NH



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

4	W
5	BR
6	B
8	Y
9	O
14	GR
15	SB
16	V
17	G
24	LG
25	V
31	L
32	P
34	O
35	R

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# SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

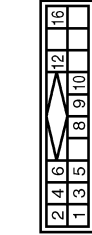
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-TM4



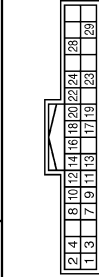
Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	- [Coupe models]
2	R	- [Roadster models]
3	Y	- [Coupe models]
3	B	- [Roadster models]
4	G	- [Coupe models]
7	R	- [Roadster models]
7	Y	- [Coupe models]
8	LG	- [Roadster models]
9	Y	- [Coupe models]
11	R	- [Roadster models]
20	G	- [Coupe models]
21	R	- [Roadster models]
30	B	- [Coupe models]
40	W	- [Roadster models]
41	V	- [Coupe models]
42	G	- [Roadster models]
43	L	- [Coupe models]
44	SB	- [Roadster models]
51	P	- [Coupe models]
52	L	- [Roadster models]
53	SHIELD	- [Coupe models]
54	BR	- [Roadster models]
55	Y	- [Coupe models]
56	SHIELD	- [Roadster models]
57	G	- [Coupe models]
57	P	- [Roadster models]
58	R	- [Coupe models]
58	L	- [Roadster models]
59	B	- [Coupe models]
60	W	- [Roadster models]
61	GR	- [Coupe models]
62	B	- [Roadster models]
63	Y	- [Coupe models]
64	V	- [Roadster models]
65	SB	- [Coupe models]
66	EG	- [Roadster models]
66	O	- [Coupe models]
67	Y	- [Roadster models]

Connector No.	B236
Connector Name	SATELLITE RADIO TUNER
Connector Type	A18FW



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

Connector No.	B237
Connector Name	TEL ADAPTER UNIT
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	BATTERY
2	V	ACC
3	SB	IGNITION SIGNAL
4	B	GND
7	L	MICROPHONE SIGNAL
8	SHIELD	MICROPHONE GND
9	BR	TEL VOICE SIGNAL (-)
10	Y	TEL VOICE SIGNAL (+)
11	BG	TELEPHONE ON SIGNAL [Coupe models]
11	O	TELEPHONE ON SIGNAL [Roadster models]
12	P	STRG SW A (INPUT)

13	L	STRG SW B (INPUT)
14	B	STRG SW GND (INPUT)
16	R	ROOF STATUS SIGNAL (AUDIO)
17	W	STRG SW A (OUTPUT)
18	GR	STRG SW B (OUTPUT)
19	B	STRG SW GND (OUTPUT)
20	B	CONTROL SIGNAL
22	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
28	V	VEHICLE SPEED SIGNAL (9-PULSE)
29	P	MICROPHONE YCC

Connector No.	B238
Connector Name	TEL ADAPTER UNIT
Connector Type	TH108FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
35	R	AV COMM (H)
36	G	AV COMM (L)
39	L	AV COMM (H)
40	L	AV COMM (H)
41	Y	AV COMM (L)
42	Y	AV COMM (L)

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TK02MR-P



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

JCNWM3107GB



# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B244
Connector Name	WIRE TO WIRE
Connector Type	TK02FB



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

Connector No.	B245
Connector Name	REAR SPEAKER RH
Connector Type	TK02FB



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

Connector No.	B249
Connector Name	REAR WOOFER RH
Connector Type	NS02FW-CS



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

Connector No.	B301
Connector Name	WIRE TO WIRE
Connector Type	TH40MP-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	LG	-
5	L	-
6	P	-
8	O	-
9	Y	-
14	BR	-
15	BR	-
16	W	-
17	DG	-
24	V	-
25	LG	-
31	BG	-
32	P	-
34	O	-
35	SB	-

Connector No.	B303
Connector Name	SOFT TOP CONTROL UNIT
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	SENSOR POWER SUPPLY (ROOF STRIKER SENSOR LH)
3	DG	ROOF STRIKER SENSOR RH
4	W	ROOF STRIKER SENSOR LH
8	Y	REVERSE SIGNAL
9	SB	POWER CONDITION (POWER WINDOW)
10	O	TRUNK LID OPEN SIGNAL
11	O	ROOF STATUS SIGNAL (INDICATOR)

12	SB	ROOF STATUS SIGNAL (AUDIO)
14	L	ROOF OPEN / CLOSE SWITCH (CLOSE)
15	LG	ROOF OPEN / CLOSE SWITCH (OPEN)
16	V	TRUNK ROO/W LAMP SWITCH
17	BG	CAN-H
18	P	CAN-L
19	LG	LOCAL COMMUNICATION (POWER WINDOW)
20	V	LOCAL COMMUNICATION (BCM)
21	BR	SENSOR POWER SUPPLY (ROOF STRIKER SENSOR RH)
29	DG	GND
35	P	ROOF OPEN / CLOSE SWITCH (GND)

Connector No.	B401
Connector Name	WIRE TO WIRE
Connector Type	GT13SSGN-1/PPP-HU



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

Connector No.	B402
Connector Name	SATELLITE RADIO TUNER
Connector Type	FAMBA CONNECTOR



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

Connector No.	B405
Connector Name	WIRE TO WIRE
Connector Type	GT13SSN-1/PPP-HU(21)



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

Connector No.	B407
Connector Name	SATELLITE RADIO ANTENNA
Connector Type	GT16C-1PP-HU(A)



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

Connector No.	B409
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-1S-HU



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

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P

AV

# SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B420	WIRE TO WIRE	GT16C-1PP-HU(A)
Terminal No.	1		
Terminal No.	2		



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

Connector No.	B427	WIRE TO WIRE	GT13SSN-1/1PP-HU(21)
Terminal No.	1		
Terminal No.	2		



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

Connector No.	B433	ANTENNA BASE	GT16C-1PP-HU(A)
Terminal No.	3		
Terminal No.	4		



Terminal No.	Color of Wire	Signal Name [Specification]
3		SATELLITE ANTENNA SIGNAL
4		SHIELD

Connector No.	B421	WIRE TO WIRE	GT16C-1S-HU(A)
Terminal No.	1		
Terminal No.	2		



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

Connector No.	B429	WIRE TO WIRE	GT13SS-1/S-HU(21)
Terminal No.	1		
Terminal No.	2		



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



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

Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	
8	Y	
9	G	
10	BG	
10	O	
11	P	
11	V	
12	L	
13	B	
14	SB	
14	Y	
15	W	
19	G	
23	R	
44	L	
47	B	
48	SB	
49	W	
50	LG	
51	R	

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

Connector No.	B425	WIRE TO WIRE	GT13SCH-1/1PP-HU
Terminal No.	1		
Terminal No.	2		



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

Connector No.	B431	ANTENNA BASE	GT13SSN-1/1PP-HU
Terminal No.	1		
Terminal No.	2		



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

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

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

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

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

Connector No.	D8	FRONT DOOR SPEAKER LH	NS02FW-CS
Terminal No.	1		
Terminal No.	2		



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



JCNWM3109GB



# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	MS107W-CS



4B	3B	2B	1B
9B	8B	7B	6B
5B	4B	3B	2B
1B	1B	1B	1B

Terminal No.	Color of Wire	Signal Name [Specification]
1B	Y	-
3B	P	-
4B	G	-
5B	O	-
6B	Y	-
8B	R	-
9B	SB	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B

Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	Y	-
9	G	-
10	V	-
11	V	-
12	L	-
13	B	-
14	Y	-
15	W	-
19	Y	-
23	Y/B	-
44	L	-
47	B	-
48	SB	-
48	SB	- [Reader models with M/T]

49	Y	-	-	-
50	W	-	-	-
51	R	-	-	-
52	L	-	-	- [With A/T]
53	W	-	-	- [With M/T]
54	G	-	-	-
55	R	-	-	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS18-TM4



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	L	-
4	L	-
7	B	-
8	P	-
9	L	- [Coupe models]
9	B	- [Reader models]
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-
17	BR	-
20	GR	-
21	BR	- [Coupe models]
21	R	- [Reader models]
31	L	-
31	BR	- [Reader models with M/T]
32	Y	- [Reader models with M/T]
32	V	- [Except for reader models with M/T]
33	P	-
34	L	-
35	BR	-
36	SB	-
37	Y	-
38	LG	-
39	SB	-
40	W	-

41	LG	-
42	R	-
43	G	-
44	G	- [With A/T]
44	R	- [With M/T]
45	O	-
46	G	-
47	BR	-
58	SHIELD	-
59	L	-
70	R	-
80	LG	-
81	GR	-
82	V	-
83	V	-
84	L	-
85	BR	-
86	V	-
87	V	- [Reader models with M/T]
87	G	- [Except for reader models with M/T]
89	P	-
91	W	-
92	P	-
93	P	-
94	Y	-
96	P	-
97	GR	-
98	O	-
99	W	-
100	R	-

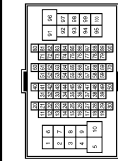
# SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

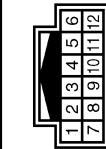
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS-E-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	LG	-
4	O	-
5	V	-
6	V	-
7	LG	-
8	SB	-
9	GR	-
10	Y	-
11	Y	-
12	V	-
13	BR	-
14	V	-
15	B	-
16	V	-
17	O	-
18	SB	-
19	G	-
20	GR	-
21	GR	-
22	GR	-
23	V	-
24	R	-
25	L	-
26	P	-
27	W	-
28	W	-
29	B	-
30	W	-
31	W	-
32	B	-
33	W	-
34	R	-
35	B	-
36	B	-
37	L	-
38	R	-
39	W	-
40	L	-
41	R	-
42	GR	-
43	R	- [Coupe models]
44	V	- [Roadster models]
45	O	-
46	G	- [With A/T]
47	SB	- [With M/T]
48	R	- [With A/T]
49	V	- [With M/T]
50	SHIELD	-

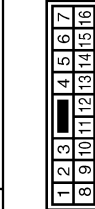
51	V	-
52	R	-
53	SHIELD	-
54	B	-
55	L	- [Coupe models]
56	V	- [Roadster models]
57	R	- [Coupe models]
58	R	- [Roadster models]
59	SHIELD	-
60	R	- [Coupe models]
61	BR	- [Roadster models]
62	G	-
63	BR	- [Coupe models]
64	G	- [Roadster models]
65	SHIELD	-
66	LG	- [Coupe models]
67	P	- [Roadster models]
68	V	- [Coupe models]
69	L	- [Roadster models]
70	SHIELD	-
71	G	-
72	P	-
73	BR	-
74	GR	-
75	O	-
76	Y	-
77	W	-
78	BR	-
79	GR	-
80	GR	-
81	L	-
82	LG	-
83	V	-
84	V	-
85	BR	-
86	SB	-
87	SB	-
88	SB	-
89	Y	-
90	SB	-
91	SB	-
92	L	- [Coupe models]
93	W	- [Roadster models]
94	W	- [Roadster models]
95	L	-
96	L	-
97	LG	-
98	Y	- [Coupe models]
99	BG	- [Roadster models]
100	Y/B	-
101	W	-
102	B	-

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



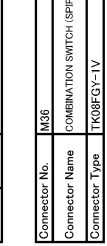
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	R	-
4	B	-
5	V	-
6	R	-
7	SHIELD	-
8	R	-
9	R	-
10	G	-
11	B	-
12	Y	-

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	Y	-
3	LG	-
4	LG	-
5	V	-
6	V	-
7	L	-
8	LG	-
9	Y	-
10	W	-
11	W	-
12	W	-
13	W	-
14	L	-

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK03FGY-TV



Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
25	SB	-
26	W	- [Coupe models]
27	BR	- [Roadster models]
31	L	-
32	Y	-
33	B	-
34	LG	-

Connector No.	M41
Connector Name	TWEETER LH
Connector Type	TK02FBR



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

JCNWM3112GB

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P

AV

# SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M42
Connector Name	TWEETER RH
Connector Type	TH202BR



1	2
---	---

Connector No.	M81
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CS2



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	20
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Connector No.	M82
Connector Name	AUDIO UNIT
Connector Type	TH12FW-NH



22	23	24	29		
21	25	26	27	28	30

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TH16MMF-NH



1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

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

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH24FW-NH



1	2	3	4	5	6	8	9	10	12
15	16	17	18	19	20	21	22	23	24

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	O	IGNITION POWER SUPPLY
3	L	VEHICLE SPEED SIGNAL (2-PULSE)
4	Y	VEHICLE SPEED SIGNAL (8-PULSE)
5	B	ILLUMINATION CONTROL SIGNAL
6	R	ROOF STATUS SIGNAL
8	BR	COMMUNICATION SIGNAL (METER->TRIPLE METER)
9	L	COMMUNICATION SIGNAL (TRIPLE METER->METER)
12	G	S-MODE SWITCH SIGNAL
15	L	ACC POWER SUPPLY
16	R	AIR BAG SIGNAL
17	B	GROUND
18	V	AMBIENT SENSOR SIGNAL
19	G	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
20	GR	AMBIENT SENSOR GROUND
21	L	CAN-H
22	P	CAN-L
23	B	GROUND
24	Y	FUEL LEVEL SENSOR GROUND

Terminal No.	Color of Wire	Signal Name [Specification]
21	R	AV COMM (H)
22	G	AV COMM (L)
25	SHIELD	SHIELD
26	LG	TEL VOICE SIGNAL (+) [Coupe models]
26	BR	TEL VOICE SIGNAL (-) [Roadster models]
27	V	TEL VOICE SIGNAL (+) [Coupe models]
27	Y	TEL VOICE SIGNAL (-) [Roadster models]
28	O	TELEPHONE ON SIGNAL [Coupe models]
28	G	TELEPHONE ON SIGNAL [Roadster models]

Connector No.	M83
Connector Name	AUDIO UNIT
Connector Type	A12FW



32	34	40			
31	33	35	36	38	39

Terminal No.	Color of Wire	Signal Name [Specification]
31	W	SOUND SIGNAL LH (-)
32	B	SOUND SIGNAL LH (+)
33	R	SOUND SIGNAL RH (-)
34	G	SOUND SIGNAL RH (+)
35	SHIELD	SHIELD
38	P	REQUEST (SAT->AUDIO)
38	G	COMM (SAT->AUDIO)
40	L	COMM (AUDIO->SAT)

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
5	R	-
6	B	-
7	P	-
8	R	-
11	B	-
11	Y	-
12	G	-
13	Y	-
14	SHIELD	-
15	R	-
16	G	-

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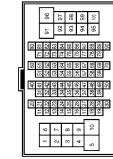
# SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

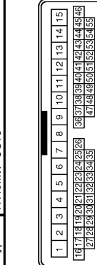
Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS (F-TM4)



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	- [Coupe models]
2	LG	- [Roadster models]
3	O	- [Coupe models]
3	B	- [Roadster models]
4	W	- [Coupe models]
4	G	- [Roadster models]
7	LG	- [Coupe models]
7	Y	- [Roadster models]
8	LG	-
9	Y	-
11	R	-
20	G	-
21	R	-
30	B	-
40	O	-
41	Y	-
42	L	-
43	L	-
44	SB	-
51	R	-
52	G	-
53	SHIELD	-
54	LG	- [Coupe models]
54	BR	- [Roadster models]
55	V	- [Coupe models]
55	Y	- [Roadster models]
56	SHIELD	-
57	G	- [Coupe models]
57	P	- [Roadster models]
58	R	- [Coupe models]
58	L	- [Roadster models]
59	B	-
60	W	-
61	GR	-
62	B	-
63	Y	-
64	L	-
65	G	-

66	O	- [Coupe models]
66	G	- [Roadster models]
67	V	-
68	P	- [Coupe models]
68	GR	- [Roadster models]
69	L	- [Coupe models]
69	P	- [Roadster models]
70	L	- [Coupe models]
70	O	- [Roadster models]
80	W	- [Coupe models]
80	L	- [Roadster models]
81	Y	-
82	W	-
83	B	-
84	R	-
85	G	-
86	SHIELD	-
87	G	-
88	L	-
89	P	-
90	SHIELD	-
92	G	- [Coupe models]
92	LG	- [Roadster models]
93	R	- [Coupe models]
93	V	- [Roadster models]
94	SHIELD	-
94	G	- [Coupe models]
95	SB	- [Coupe models]
95	LG	- [Roadster models]
97	LG	- [Coupe models]
97	Y	- [Roadster models]
98	V	- [Coupe models]
98	Y/B	- [Roadster models]
99	G	-
100	BR	- [Coupe models]
100	Y	- [Roadster models]

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



Terminal No.	Color of Wire	Signal Name [Specification]
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10	G	- [Coupe models]
10	V	- [Roadster models]
11	V	- [Coupe models]
11	LG	- [Roadster models]
12	LG	-
13	V	-
14	B	-
15	W	-
19	Y	-
23	Y/B	-
44	R	- [Coupe models]
44	O	- [Roadster models]
50	Y	-
51	Y	-
52	G	- [Roadster models with M/T]
52	GR	- [Except for roadster models with M/T]
53	W	-
54	G	-
55	R	-

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK09FGY



Terminal No.	Color of Wire	Signal Name [Specification]
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-

Connector No.	M401
Connector Name	AUDIO UNIT
Connector Type	GT13SH-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
43	-	ANTENNA AMP. ON SIGNAL
44	-	ANTENNA SIGNAL

Connector No.	M405
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/1S-HU



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

Connector No.	M408
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/1S-HU



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

JCNWM3114GB

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AV

# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



8	7	6	5	4	3	2	1
18	15	14	13	12	11	10	9

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



6	5	4	3	2	1
12	11	10	9	8	7

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
5	R	-
6	B	-
7	P	-
8	R	-
11	B	-
12	Y	-
13	G	-
14	SHIELD	-
15	R	-
16	G	-

Connector No.	RS
Connector Name	MICROPHONE
Connector Type	TK04FW



1	2	3	4
---	---	---	---

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	B	-
3	R	-
4	B	-
5	V	-
6	R	-
7	SHIELD	-
8	R	-
9	G	-
10	B	-
11	G	-
12	Y	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	P	MICROPHONE SIGNAL
2	SHIELD	SHIELD
4	L	MICROPHONE VCC

JCNWM3115GB



# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

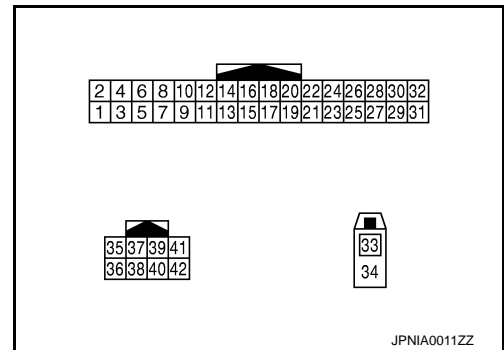
[BOSE AUDIO WITHOUT NAVIGATION]

## TEL ADAPTER UNIT

Reference Value

INFOID:000000005511761

TERMINAL LAYOUT







PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
2 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
3 (SB)	Ground	Ignition signal	Input	Ignition switch ON	—	Battery voltage
4 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
7 (L)	8	Microphone signal	Input	Ignition switch ON	Give a voice	
8	—	Shield (microphone signal ground)	—	—	—	—
9 (BR)	10 (Y)	Sound signal (Telephone voice, tele- phone guidance)	Output	Ignition switch ON	During voice guide output with the  switch pressed	
11 (BG) <sup>*1</sup> (O) <sup>*2</sup>	Ground	Telephone on signal	Output	Ignition switch ON	While using hands-free phone system	0 V
					While not using hands-free phone system	5.0 V

# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

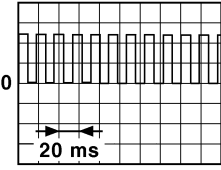
[BOSE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
12 (P)	14 (B)	Steering switch signal A (input)	Input	Ignition switch ON	Keep pressing SOURCE switch	0 V
					Keep pressing MENU UP switch	1.25 V
					Keep pressing MENU DOWN switch	2.5 V
					Keep pressing  switch	3.7 V
					Except for above	5.0 V
13 (L)	14 (B)	Steering switch signal B (input)	Input	Ignition switch ON	Keep pressing VOL DOWN switch	0 V
					Keep pressing VOL UP switch	1.25 V
					Keep pressing  switch	2.5 V
					Except for above.	5.0 V
14 (B)	Ground	Steering switch signal ground	—	Ignition switch ON	—	0 V
16 (R)	Ground	Roof status signal (AUDIO)	Input	Ignition switch ON	Retractable soft top fully open	Battery voltage
					Retractable soft top other than above	0 V
17 (W)	19 (B)	Steering switch signal A (output)	Output	Ignition switch ON	Keep pressing SOURCE switch	0 V
					Keep pressing MENU UP switch	1.25 V
					Keep pressing MENU DOWN switch	2.5 V
					Keep pressing  switch	3.7 V
					Except for above	5.0 V
18 (GR)	19 (B)	Steering switch signal B (output)	Output	Ignition switch ON	Keep pressing VOL DOWN switch	0 V
					Keep pressing VOL UP switch	1.25 V
					Keep pressing  switch	2.5 V
					Except for above.	5.0 V
20 (B)	Ground	Control signal	—	Ignition switch ON	—	0 V
22 (B)	Ground	Control signal	—	Ignition switch ON	—	0 V
23* <sup>2</sup> (B)	Ground	Control signal	—	Ignition switch ON	—	0 V
24* <sup>1</sup> (B)	Ground	Control signal	—	Ignition switch ON	—	0 V

# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
28 (V)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is ap- prox. 40 km/h (25MPH)	<b>NOTE:</b> The maximum voltage varies de- pending on the specification (destination unit).  <small>JSNIA0012GB</small>
29 (P)	Ground	Microphone power supply	Output	Ignition switch ON	—	5.0 V
33	—	TEL antenna signal	Input	—	Not connected to TEL an- tenna connector	5.0 V
34	—	Shield	—	—	—	—
35 (R)	—	AV communication signal (H)	Input/ Output	—	—	—
36 (G)	—	AV communication signal (L)	Input/ Output	—	—	—
39 (L)	—	AV communication	—	—	—	—
40 (L)	—	AV communication	—	—	—	—
41 (Y)	—	AV communication	—	—	—	—
42 (Y)	—	AV communication	—	—	—	—

\*1: Coupe models

\*2: Roadster models

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AV

# TEL ADAPTER UNIT

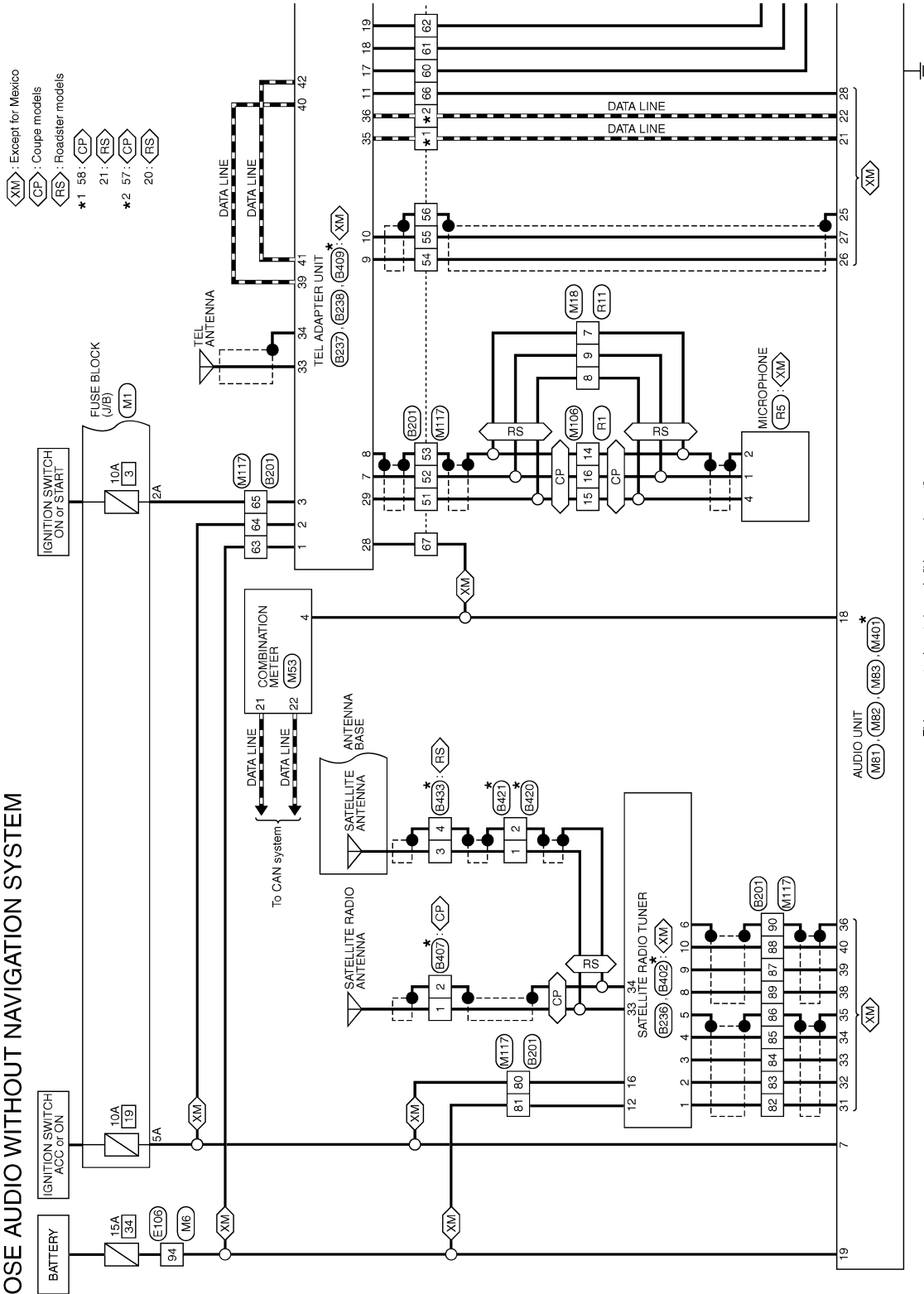
[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

## Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

INFOID:000000005511762

### BOSE AUDIO WITHOUT NAVIGATION SYSTEM



- ◊ XM : Except for Mexico
- ◊ CP : Coupe models
- ◊ RS : Roadster models
- \*1 58 : ◊ CP
- 21 : ◊ RS
- \*2 57 : ◊ CP
- 20 : ◊ RS

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

2009/07/10

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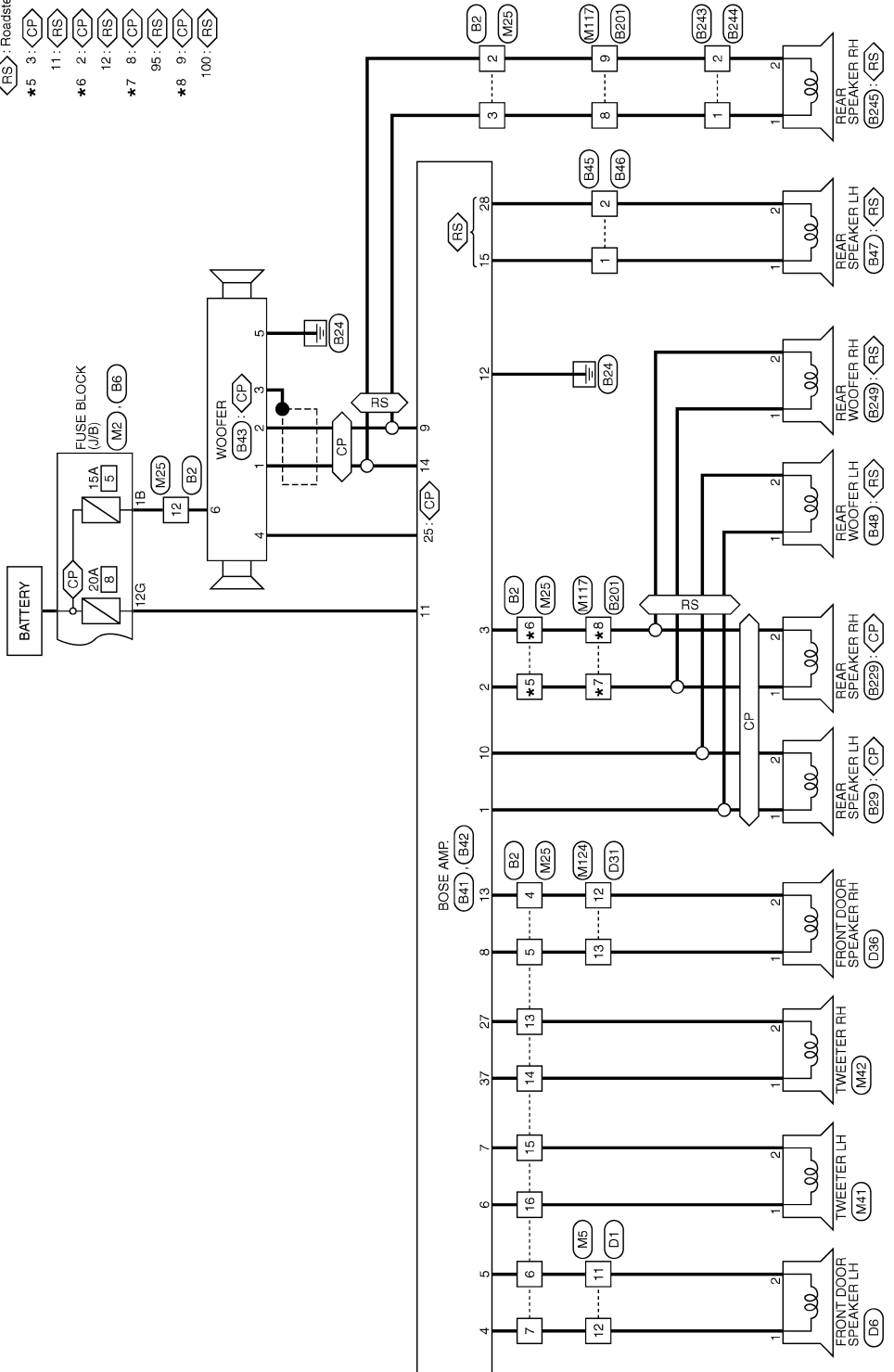
# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

CP: Coupe models  
 RS: Roadster models

- \*5 3 CP
- 11 RS
- \*6 2 CP
- 12 RS
- \*7 8 CP
- 95 RS
- \*8 9 CP
- 100 RS



AUDIO UNIT  
 (M81) (M82) (M83) (M40)

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

JCNWM3103GB

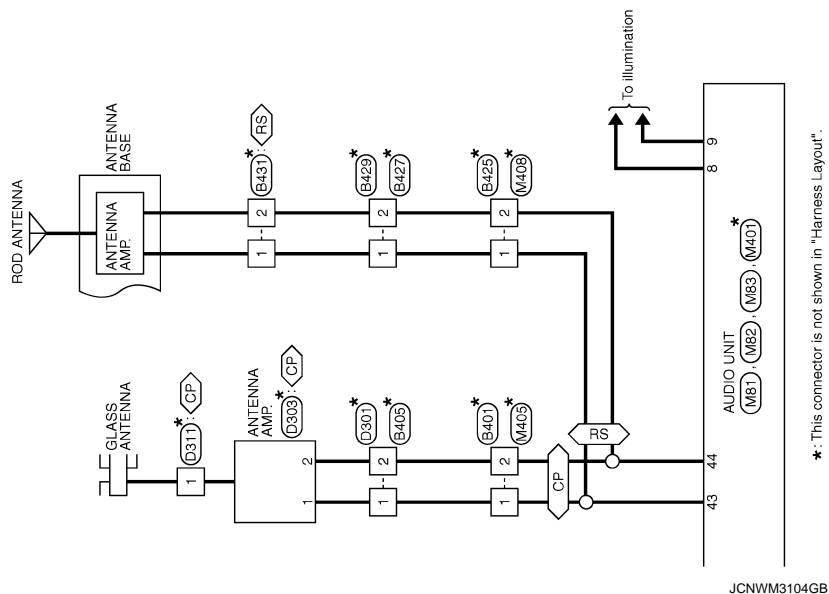
# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

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J  
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L  
M  
AV  
O  
P

CP: Coupe models  
RS: Roadster models



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

# 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	THB07V-CS16-TM4



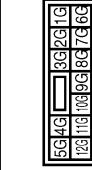
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	BG	- [Coupe models]
3	O	- [Roadster models]
4	W	-
6	V	-
7	LG	-
8	GR	-
9	SB	-
11	Y	-
12	W	-
13	BR	-
14	LG	-
15	B	-
16	V	-
20	SB	-
21	G	-
22	GR	-
23	V	-
24	O	-
25	L	-
26	P	-
31	W	-
32	B	-
33	P	- [Coupe models]
33	W	- [Roadster models]
34	R	-
35	B	-
40	Y	-
41	L	-
42	GR	-
43	BR	-
44	R	-
45	BG	- [Coupe models]
45	O	- [Roadster models]
46	SB	-
47	V	-
48	SHIELD	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	- [Coupe models]
2	Y	- [Roadster models]
3	R	- [Coupe models]
3	LG	- [Roadster models]
4	G	-
5	BG	- [Coupe models]
5	O	- [Roadster models]
6	V	-
7	L	-
11	LG	-
12	Y	-
13	W	-
14	B	-
15	GR	-
16	LG	-

Connector No.	B3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



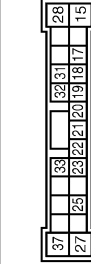
Terminal No.	Color of Wire	Signal Name [Specification]
5/G	LG	-
10G	W	- [Coupe models]
10G	P	- [Roadster models]
11G	W	- [Coupe models]
11G	G	- [Roadster models]
12G	Y	-

Connector No.	B29
Connector Name	REAR SPEAKER LH
Connector Type	TK02FBR



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

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FBR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	L	SOUND SIGNAL REAR SPEAKER LH (+)
17	R	ROOF STATUS SIGNAL (AUDIO)
18	P	SOUND SIGNAL FRONT LH (+)
19	R	SOUND SIGNAL FRONT RH (+)
20	G	SOUND SIGNAL FRONT RH (-)
21	V	SOUND SIGNAL REAR LH (+)
22	SB	SOUND SIGNAL REAR LH (-)
23	BR	SOUND SIGNAL REAR RH (+)
25	GR	WOOFER AMP. ON SIGNAL
27	W	SOUND SIGNAL FRONT TWEETER RH (-)
28	P	SOUND SIGNAL REAR SPEAKER LH (-)
31	W	BOSE AMP. ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	B	SOUND SIGNAL FRONT TWEETER RH (+)



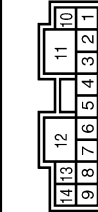
# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA1ZPER-SJA2



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	SOUND SIGNAL WOOFER (-)
2	SB	SOUND SIGNAL WOOFER (+)
3	SHIELD	SHIELD
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	Y	BATTERY

Connector No.	B45
Connector Name	WIRE TO WIRE
Connector Type	TKOZMBR-P



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

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TKOZFER



Connector No.	B47
Connector Name	REAR SPEAKER LH
Connector Type	TKOZFER



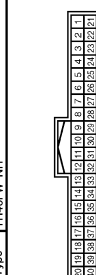
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	P	

Connector No.	B48
Connector Name	REAR WOOFER LH
Connector Type	MSOZFW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	- [With NAVI]
1	L	- [Without NAVI]
2	Y	- [With NAVI]
2	V	- [Without NAVI]

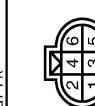
Connector No.	B81
Connector Name	WIRE TO WIRE
Connector Type	THOZFW-NH



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	SOUND SIGNAL REAR SPEAKER LH (+) [Coupe models]
1	LG	SOUND SIGNAL REAR WOOFER LH (+) [Rearster models with NAVI]
1	L	SOUND SIGNAL REAR WOOFER LH (+) [Rearster models without NAVI]
2	R	SOUND SIGNAL REAR SPEAKER RH (-) [Coupe models]
2	LG	SOUND SIGNAL REAR WOOFER RH (-) [Rearster models]
3	ER	SOUND SIGNAL REAR SPEAKER RH (+) [Rearster models]
3	Y	SOUND SIGNAL REAR WOOFER RH (+) [Rearster models]
4	L	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
5	V	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
6	LG	SOUND SIGNAL TWEETER LH (+)
7	GR	SOUND SIGNAL TWEETER LH (-)
8	BG	SOUND SIGNAL FRONT SPEAKER RH (+) [Coupe models]
8	O	SOUND SIGNAL FRONT SPEAKER RH (+) [Rearster models]
9	SB	SOUND SIGNAL WOOFER (+) [Coupe models]
9	LG	SOUND SIGNAL REAR SPEAKER RH (+) [Rearster models]
10	P	SOUND SIGNAL REAR SPEAKER LH (-) [Coupe models]
10	Y	SOUND SIGNAL REAR WOOFER (-) [Rearster models with NAVI]
10	V	SOUND SIGNAL REAR WOOFER (-) [Rearster models without NAVI]
11	Y	BATTERY
12	B	GND
12	B	SOUND SIGNAL FRONT SPEAKER RH (-)
13	G	SOUND SIGNAL WOOFER (-) [Coupe models]
14	V	SOUND SIGNAL WOOFER (-) [Coupe models]
14	Y	SOUND SIGNAL REAR SPEAKER RH (+) [Rearster models]

Connector No.	B43
Connector Name	WOOFER
Connector Type	RSDBFGY-PR



4	W
5	BR
6	B
8	Y
9	O
14	GR
15	SB
16	V
17	G
24	LG
25	V
31	L
32	P
34	O
35	R

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# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

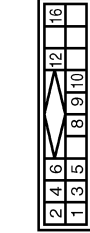
## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-TM4



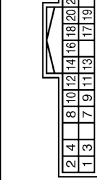
Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	- [Coupe models]
2	R	- [Roadster models]
3	Y	- [Coupe models]
3	B	- [Roadster models]
4	G	- [Coupe models]
7	R	- [Roadster models]
7	Y	- [Coupe models]
8	LG	- [Roadster models]
9	Y	- [Coupe models]
11	R	- [Roadster models]
20	G	- [Coupe models]
21	R	- [Roadster models]
30	B	- [Coupe models]
40	W	- [Roadster models]
41	V	- [Coupe models]
42	G	- [Roadster models]
43	L	- [Coupe models]
44	SB	- [Roadster models]
51	P	- [Coupe models]
52	L	- [Roadster models]
53	SHIELD	- [Coupe models]
54	BR	- [Roadster models]
55	Y	- [Coupe models]
56	SHIELD	- [Roadster models]
57	G	- [Coupe models]
57	P	- [Roadster models]
58	R	- [Coupe models]
58	L	- [Roadster models]
59	B	- [Coupe models]
60	W	- [Roadster models]
61	GR	- [Coupe models]
62	B	- [Roadster models]
63	Y	- [Coupe models]
64	V	- [Roadster models]
65	SB	- [Coupe models]
66	EG	- [Roadster models]
66	O	- [Coupe models]
67	Y	- [Roadster models]

Connector No.	B236
Connector Name	SATELLITE RADIO TUNER
Connector Type	A18FW



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

Connector No.	B237
Connector Name	TEL ADAPTER UNIT
Connector Type	TH22FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	BATTERY
2	V	ACC
3	SB	IGNITION SIGNAL
4	B	GND
7	L	MICROPHONE SIGNAL
8	SHIELD	MICROPHONE GND
9	BR	TEL VOICE SIGNAL (+)
10	Y	TEL VOICE SIGNAL (-)
11	BG	TELEPHONE ON SIGNAL [Coupe models]
11	O	TELEPHONE ON SIGNAL [Roadster models]
12	P	STRG SW A (INPUT)

13	L	STRG SW B (INPUT)
14	B	STRG SW GND (INPUT)
16	R	ROOF STATUS SIGNAL (AUDIO)
17	W	STRG SW A (OUTPUT)
18	GR	STRG SW B (OUTPUT)
19	B	STRG SW GND (OUTPUT)
20	B	CONTROL SIGNAL
22	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
28	V	VEHICLE SPEED SIGNAL (9-PULSE)
29	P	MICROPHONE YCC

Connector No.	B238
Connector Name	TEL ADAPTER UNIT
Connector Type	TH108FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
35	R	AV COMM (H)
36	G	AV COMM (L)
39	L	AV COMM (H)
40	L	AV COMM (H)
41	Y	AV COMM (L)
42	Y	AV COMM (L)

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TK02MR-P



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

JCNWM3107GB

# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B244
Connector Name	WIRE TO WIRE
Connector Type	TK02FB



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

Connector No.	B245
Connector Name	REAR SPEAKER RH
Connector Type	TK02FB



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

Connector No.	B249
Connector Name	REAR WOOFER RH
Connector Type	NS02FW-CS



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

Connector No.	B301
Connector Name	WIRE TO WIRE
Connector Type	TH40MP-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	LG	-
5	L	-
6	P	-
8	O	-
9	Y	-
14	BR	-
15	BR	-
16	W	-
17	DG	-
24	V	-
25	LG	-
31	BG	-
32	P	-
34	O	-
35	SB	-

Connector No.	B303
Connector Name	SOFT TOP CONTROL UNIT
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	SENSOR POWER SUPPLY (ROOF STRIKER SENSOR LH)
3	DG	ROOF STRIKER SENSOR RH
4	W	ROOF STRIKER SENSOR LH
8	Y	REVERSE SIGNAL
9	SB	POWER CONDITION (POWER WINDOW)
10	O	TRUNK LID OPEN SIGNAL
11	O	ROOF STATUS SIGNAL (INDICATOR)

12	SB	ROOF STATUS SIGNAL (AUDIO)
14	L	ROOF OPEN / CLOSE SWITCH (CLOSE)
15	LG	ROOF OPEN / CLOSE SWITCH (OPEN)
16	V	TRUNK ROO/W LAMP SWITCH
17	BG	CAN-H
18	P	CAN-L
19	LG	LOCAL COMMUNICATION (POWER WINDOW)
20	V	LOCAL COMMUNICATION (BCM)
21	BR	SENSOR POWER SUPPLY (ROOF STRIKER SENSOR RH)
29	DG	GND
35	P	ROOF OPEN / CLOSE SWITCH (GND)

Connector No.	B401
Connector Name	WIRE TO WIRE
Connector Type	GT13SSGN-1/1PP-HU



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

Connector No.	B402
Connector Name	SATELLITE RADIO TUNER
Connector Type	F4RBA CONNECTOR



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

Connector No.	B405
Connector Name	WIRE TO WIRE
Connector Type	GT13SSN-1/1PP-HU(21)



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

Connector No.	B407
Connector Name	SATELLITE RADIO ANTENNA
Connector Type	GT16C-1PP-HU(A)



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

Connector No.	B409
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-1S-HU



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

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P

AV



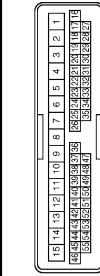
# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

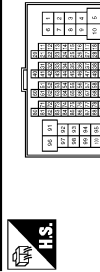
Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Type	GT1SSC-1/IS-HU(2)



Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
10	V	-
11	LG	-
12	P	- [With BOSE system]
13	V	- [Without BOSE system]
14	L	- [Coupe models without BOSE system]
15	B	- [Except for coupe models without BOSE system]
19	P	-
23	L	-
44	L	-
50	Y	-
51	Y	-
52	G	-
53	BG	- [Coupe models]
54	GR	- [Roadster models]
55	L	-

Connector No.	D36
Connector Name	FRONT DOOR SPEAKER RH
Connector Type	NS20FW-CS



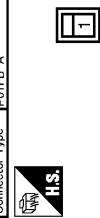
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	D303
Connector Name	ANTENNA AMP.
Connector Type	GT1SSC-1/IS-HU



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

Connector No.	D311
Connector Name	GLASS ANTENNA
Connector Type	PU1FB-A



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [Coupe models without BOSE system]
1	L	- [Except for coupe models without BOSE system]
2	P	- [With BOSE system]
2	LG	- [Without BOSE system]

70	P	-
80	W	-
81	P	-
82	G	-
83	V	-
84	L	-
85	BG	- [Coupe models]
86	LG	- [Roadster models]
87	R	-
89	P	-
91	W	-
92	L	-
93	G	-
94	Y	-
96	Y	-
97	BR	-
98	GR	-
99	LG	-
100	BG	- [Coupe models]
100	O	- [Roadster models]

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



Terminal No.	Color of Wire	Signal Name [Specification]
1A	V	-
2A	G	-
3A	L	-
4A	P	-
5A	L	-
6A	Y	-
7A	BR	-
8A	L	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	L	-
4	L	-
7	B	-
8	P	-
9	L	- [Coupe models]
9	B	- [Roadster models]
11	V	-
12	R	-
13	L	-
14	GR	-
15	P	-
16	W	-
17	SB	-
20	LG	-
21	BR	- [Coupe models]
21	G	- [Roadster models]
31	L	-
32	Y	-
33	P	-
34	L	-
35	BR	-
36	V	-
37	Y	-
38	R	-
39	B	-
40	W	-
41	LG	-
42	SB	-
43	G	-
44	R	- [Roadster models with M/T]
44	GR	- [Except for roadster models with M/T]
45	BG	- [Coupe models]
46	O	- [Roadster models]
46	W	-
47	P	-
58	SHIELD	-
59	L	-

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

A B C D E F G H I J K L M N O P

AV

# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	MS10FY-CS



4B	3B	2B	1B
9B	8B	7B	6B
5B	4B	3B	2B
1B	1B	1B	1B

Terminal No.	Color of Wire	Signal Name [Specification]
1B	Y	-
3B	P	-
4B	G	-
5B	O	-
6B	Y	-
8B	R	-
9B	SB	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B
1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B

Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	Y	-
9	G	-
10	V	-
11	V	-
12	L	-
13	B	-
14	Y	-
15	W	-
19	Y	-
23	Y/B	-
44	L	-
47	B	-
48	SB	-
48	SB	- [Reader models with M/T]

49	Y	-	-	-
50	W	-	-	-
51	R	-	-	-
52	L	-	-	- [With A/T]
53	W	-	-	- [With M/T]
54	G	-	-	-
55	R	-	-	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS18-TM4



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B
1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	L	-
4	L	-
7	B	-
8	P	-
9	L	- [Coupe models]
9	B	- [Reader models]
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-
17	BR	-
20	GR	-
21	BR	- [Coupe models]
21	R	- [Reader models]
31	L	-
31	BR	- [Reader models with M/T]
32	Y	- [Reader models with M/T]
32	V	- [Except for reader models with M/T]
33	P	-
34	L	-
35	BR	-
36	SB	-
37	Y	-
38	LG	-
39	SB	-
40	W	-

41	LG	-	-
42	R	-	-
43	G	-	-
44	G	-	- [With A/T]
44	R	-	- [With M/T]
45	O	-	-
46	G	-	-
47	BR	-	-
58	SHIELD	-	-
59	L	-	-
70	R	-	-
80	LG	-	-
81	GR	-	-
82	V	-	-
83	V	-	-
84	L	-	-
85	BR	-	-
86	Y	-	-
87	V	-	- [Reader models with M/T]
87	G	-	- [Except for reader models with M/T]
88	P	-	-
91	W	-	-
92	P	-	-
93	P	-	-
94	Y	-	-
96	P	-	-
97	GR	-	-
98	O	-	-
99	W	-	-
100	R	-	-

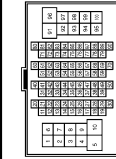
# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

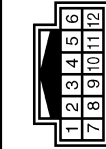
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS(E-TM4)



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	LG	-
4	O	-
5	V	-
6	V	-
7	LG	-
8	SB	-
9	GR	-
10	Y	-
11	Y	-
12	V	-
13	BR	-
14	V	-
15	B	-
16	V	-
17	O	-
18	SB	-
19	G	-
20	GR	-
21	GR	-
22	GR	-
23	V	-
24	R	-
25	L	-
26	P	-
27	W	-
28	B	-
29	W	-
30	R	-
31	W	-
32	B	-
33	W	-
34	R	-
35	B	-
36	B	-
37	L	-
38	R	-
39	W	-
40	L	-
41	R	-
42	GR	-
43	R	- [Coupe models]
44	V	- [Roadster models]
45	O	-
46	G	- [With A/T]
47	SB	- [With M/T]
48	R	- [With A/T]
49	V	- [With M/T]
50	SHIELD	-

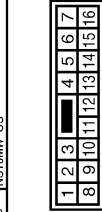
51	V	-
52	R	-
53	SHIELD	-
54	B	-
55	L	- [Coupe models]
56	V	- [Roadster models]
57	R	- [Coupe models]
58	R	- [Roadster models]
59	SHIELD	-
60	R	- [Coupe models]
61	BR	- [Roadster models]
62	G	-
63	BR	- [Coupe models]
64	G	- [Roadster models]
65	SHIELD	-
66	LG	- [Coupe models]
67	P	- [Roadster models]
68	V	- [Coupe models]
69	L	- [Roadster models]
70	SHIELD	-
71	G	-
72	P	-
73	BR	-
74	GR	-
75	O	-
76	Y	-
77	W	-
78	BR	-
79	GR	-
80	GR	-
81	L	-
82	LG	-
83	V	-
84	V	-
85	LG	-
86	V	-
87	BR	-
88	SB	-
89	Y	-
90	SB	-
91	Y	-
92	SB	-
93	L	-
94	L	- [Coupe models]
95	GR	- [Roadster models]
96	W	- [Roadster models]
97	L	-
98	LG	-
99	Y	- [Coupe models]
100	BG	- [Roadster models]
101	Y/B	- [Coupe models]
102	W	-
103	B	-

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	R	-
4	B	-
5	V	-
6	R	-
7	SHIELD	-
8	R	-
9	R	-
10	G	-
11	B	-
12	Y	-

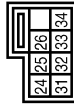
Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	Y	-
3	LG	-
4	LG	-
5	V	-
6	V	-
7	L	-
8	LG	-
9	Y	-
10	Y	-
11	W	-
12	W	-
13	W	-
14	L	-

Terminal No.	15	W	-
Terminal No.	16	L	-

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK03FGY-TV



Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
25	SB	-
26	W	- [Coupe models]
27	BR	- [Roadster models]
31	L	-
32	Y	-
33	B	-
34	LG	-

Connector No.	M41
Connector Name	TWEETER LH
Connector Type	TK02FBR



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

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P

AV

JCNWM3112GB

# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M42
Connector Name	TWEETER RH
Connector Type	TH202BR



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

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH24FV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	O	IGNITION POWER SUPPLY
3	L	VEHICLE SPEED SIGNAL (2-PULSE)
4	Y	VEHICLE SPEED SIGNAL (8-PULSE)
5	B	ILLUMINATION CONTROL SIGNAL
6	R	ROOF STATUS SIGNAL
8	BR	COMMUNICATION SIGNAL (METER->TRIPLE METER)
9	L	COMMUNICATION SIGNAL (TRIPLE METER->METER)
10	L	S-MODE SWITCH SIGNAL
12	G	ACC POWER SUPPLY
15	L	AIR BAG SIGNAL
16	R	GROUND
17	B	GROUND
18	V	AMBIENT SENSOR SIGNAL
19	G	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
20	GR	AMBIENT SENSOR GROUND
21	L	CAN-H
22	P	CAN-L
23	B	GROUND
24	Y	FUEL LEVEL SENSOR GROUND

Connector No.	M81
Connector Name	AUDIO UNIT
Connector Type	TH18FV-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	BOSE AMP. ON SIGNAL
2	LG	SOUND SIGNAL FRONT LH (+) [Roadster models]
2	P	SOUND SIGNAL FRONT LH (-) [Roadster models]
3	V	SOUND SIGNAL FRONT LH (+) [Coupe models]
3	L	SOUND SIGNAL FRONT LH (-) [Roadster models]
4	L	SOUND SIGNAL REAR LH (+) [Coupe models]
4	V	SOUND SIGNAL REAR LH (-) [Roadster models]
5	R	SOUND SIGNAL REAR LH (+) [Coupe models]
5	SB	SOUND SIGNAL REAR LH (-) [Roadster models]
6	P	STRG SW A [For Mexico]
6	W	STRG SW A [Except for Mexico]
7	L	ACC
8	W	ILL (-) [Coupe models]
8	O	ILL (-) [Roadster models]
9	R	ILL (+)
10	SHIELD	SHIELD
11	L	SOUND SIGNAL FRONT RH (+) [Coupe models]
11	R	SOUND SIGNAL FRONT RH (-) [Roadster models]
12	P	SOUND SIGNAL FRONT RH (+) [Coupe models]
12	G	SOUND SIGNAL FRONT RH (-) [Roadster models]
13	R	SOUND SIGNAL REAR RH (+) [Coupe models]
13	BR	SOUND SIGNAL REAR RH (-) [Roadster models]
14	G	SOUND SIGNAL REAR RH (+) [Coupe models]
14	Y	SOUND SIGNAL REAR RH (-) [Roadster models]
15	B	STRG SW B [For Mexico]
15	B	STRG SW B [Except for Mexico]
16	L	STRG SW B [For Mexico]
16	GR	STRG SW B [Except for Mexico]
18	Y	VEHICLE SPEED SIGNAL (8-PULSE)
19	Y	BATTERY
20	SHIELD	SHIELD

Connector No.	M82
Connector Name	AUDIO UNIT
Connector Type	TH12FV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	R	AV COMM (H)
22	G	AV COMM (L)
25	SHIELD	SHIELD
26	LG	TEL VOICE SIGNAL (+) [Coupe models]
26	BR	TEL VOICE SIGNAL (-) [Roadster models]
27	V	TEL VOICE SIGNAL (+) [Coupe models]
27	Y	TEL VOICE SIGNAL (-) [Roadster models]
28	O	TELEPHONE ON SIGNAL [Coupe models]
28	G	TELEPHONE ON SIGNAL [Roadster models]

Connector No.	M83
Connector Name	AUDIO UNIT
Connector Type	A12FW



Terminal No.	Color of Wire	Signal Name [Specification]
31	W	SOUND SIGNAL LH (-)
32	B	SOUND SIGNAL LH (+)
33	R	SOUND SIGNAL RH (-)
34	G	SOUND SIGNAL RH (+)
35	SHIELD	SHIELD
36	SHIELD	SHIELD
38	P	REQUEST (SAT->AUDIO)
38	G	COMM (SAT->AUDIO)
40	L	COMM (AUDIO->SAT)

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TH16MMF-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
5	R	-
6	B	-
7	P	-
8	R	-
11	B	-
11	Y	-
12	Y	-
13	G	-
14	SHIELD	-
15	R	-
16	G	-



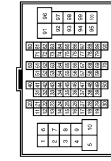
# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

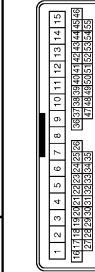
Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS (F-TM4)



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	- [Coupe models]
2	LG	- [Roadster models]
3	O	- [Coupe models]
3	B	- [Roadster models]
4	W	- [Coupe models]
4	G	- [Roadster models]
7	LG	- [Coupe models]
7	Y	- [Roadster models]
8	LG	-
9	Y	-
11	R	-
20	G	-
21	R	-
30	B	-
40	O	-
41	Y	-
42	L	-
43	L	-
44	SB	-
51	R	-
52	G	-
53	SHIELD	-
54	LG	- [Coupe models]
54	BR	- [Roadster models]
55	V	- [Coupe models]
55	Y	- [Roadster models]
56	SHIELD	-
57	G	- [Coupe models]
57	P	- [Roadster models]
58	R	- [Coupe models]
58	L	- [Roadster models]
59	B	-
60	W	-
61	GR	-
62	B	-
63	Y	-
64	L	-
65	G	-

66	O	- [Coupe models]
66	G	- [Roadster models]
67	V	-
68	P	- [Coupe models]
68	GR	- [Roadster models]
69	L	- [Coupe models]
69	P	- [Roadster models]
70	L	- [Coupe models]
70	O	- [Roadster models]
80	W	- [Coupe models]
80	L	- [Roadster models]
81	Y	-
82	W	-
83	B	-
84	R	-
85	G	-
86	SHIELD	-
87	G	-
88	L	-
89	P	-
90	SHIELD	-
92	G	- [Coupe models]
92	LG	- [Roadster models]
93	R	- [Coupe models]
93	V	- [Roadster models]
94	SHIELD	-
94	G	- [Coupe models]
95	SB	- [Coupe models]
95	LG	- [Roadster models]
97	LG	- [Coupe models]
97	Y	- [Roadster models]
98	V	- [Coupe models]
98	Y/B	- [Roadster models]
99	G	-
100	BR	- [Coupe models]
100	Y	- [Roadster models]

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



Terminal No.	Color of Wire	Signal Name [Specification]
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10	G	- [Coupe models]
10	V	- [Roadster models]
11	V	- [Coupe models]
11	LG	- [Roadster models]
12	LG	-
13	V	-
14	B	-
15	W	-
19	Y	-
23	Y/B	-
44	R	- [Coupe models]
44	O	- [Roadster models]
50	Y	-
51	Y	-
52	G	- [Roadster models with M/T]
52	GR	- [Except for roadster models with M/T]
53	W	-
54	G	-
55	R	-

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK09FGY



Terminal No.	Color of Wire	Signal Name [Specification]
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-

Connector No.	M401
Connector Name	AUDIO UNIT
Connector Type	GT13SC-1/IS-HU



Terminal No.	Color of Wire	Signal Name [Specification]
43	-	ANTENNA AMP. ON SIGNAL
44	-	ANTENNA SIGNAL

Connector No.	M405
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/IS-HU



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

Connector No.	M408
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/IS-HU



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

JCNWM3114GB

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P

AV

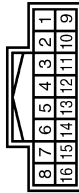
# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



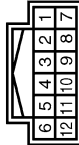
Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
5	R	-
6	B	-
7	P	-
8	R	-
11	B	-
12	Y	-
13	G	-
14	SHIELD	-
15	R	-
16	G	-



Connector No.	R5
Connector Name	MICROPHONE
Connector Type	TK04FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	P	MICROPHONE SIGNAL
2	SHIELD	SHIELD
4	L	MICROPHONE VCC

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	B	-
3	R	-
4	B	-
5	V	-
6	R	-
7	SHIELD	-
8	R	-
9	G	-
10	B	-
11	G	-
12	Y	-

JCNWM3115GB

# AUDIO SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## SYMPTOM DIAGNOSIS

### AUDIO SYSTEM SYMPTOMS



#### Symptom Table

INFOID:000000005511763

#### AUDIO SYSTEM

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>Audio unit power supply and ground circuit. Refer to <a href="#">AV-57, "AUDIO UNIT : Diagnosis Procedure"</a>.</li> <li>BOSE amp. power supply and ground circuit. Refer to <a href="#">AV-57, "BOSE AMP. : Diagnosis Procedure"</a>.</li> <li>BOSE amp. ON signal circuit. Refer to <a href="#">AV-82, "Diagnosis Procedure"</a>.</li> </ul>
	Sound is not heard from woofer.	<ul style="list-style-type: none"> <li>Sound signal woofer circuit</li> <li>Woofer amp. ON signal circuit. Refer to <a href="#">AV-83, "Diagnosis Procedure"</a>.</li> </ul>
	Sound is not heard only from the specific places.	Sound signal circuit of malfunctioning system.
Satellite radio is not received.	When "RADIO" switch is pressed, it change to satellite radio mode.	<ul style="list-style-type: none"> <li>Satellite radio sound signal circuit</li> <li>Satellite radio antenna</li> </ul>
	When "RADIO" switch is pressed, it does not change to satellite radio mode.	<ul style="list-style-type: none"> <li>Satellite radio tuner power supply and ground circuit. Refer to <a href="#">AV-58, "SATELLITE RADIO TUNER : Diagnosis Procedure"</a>.</li> <li>Request signal circuit. Refer to <a href="#">AV-80, "Diagnosis Procedure"</a>.</li> <li>Communication circuit between audio unit and satellite radio tuner. Refer to <a href="#">AV-78, "Diagnosis Procedure"</a>.</li> </ul>

#### RELATED TO STEERING SWITCH

Symptoms	Possible malfunction location / Action to take
All steering switches are not operated.	Steering switch signal ground circuit. Refer to <a href="#">AV-64, "Diagnosis Procedure"</a> .
Only specified switch cannot be operated.	Steering switch
"  , "MENU UP", "MENU DOWN" and "SOURCE" switches are not operated. (Except mexico models)	Steering switch signal A circuit (steering switch to TEL adapter unit). Refer to <a href="#">AV-60, "Diagnosis Procedure"</a> .
"  , "VOL UP" and "VOL DOWN" switches are not operated. (Except mexico models)	Steering switch signal B circuit (steering switch to TEL adapter unit). Refer to <a href="#">AV-62, "Diagnosis Procedure"</a> .
"MENU UP", "MENU DOWN" and "SOURCE" switches are not operated. (Mexico models)	Steering switch signal A circuit (steering switch to audio unit). Refer to <a href="#">AV-60, "Diagnosis Procedure"</a> .
"VOL UP" and "VOL DOWN" switches are not operated. (Mexico models)	Steering switch signal B circuit (steering switch to audio unit). Refer to <a href="#">AV-62, "Diagnosis Procedure"</a> .

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# HANS-FREE PHONE SYMPTOMS

[BOSE AUDIO WITHOUT NAVIGATION]

< SYMPTOM DIAGNOSIS >

## HANS-FREE PHONE SYMPTOMS

### Symptom Table

INFOID:000000005511764

#### RELATED TO HANDS-FREE PHONE

- Check that the cellular phone is corresponding type (Bluetooth™ enabled) 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. Check to ensure the customer's phone is supported by checking the phone compatibility for the hands-free system.

#### Simple Check for Bluetooth™ Communication

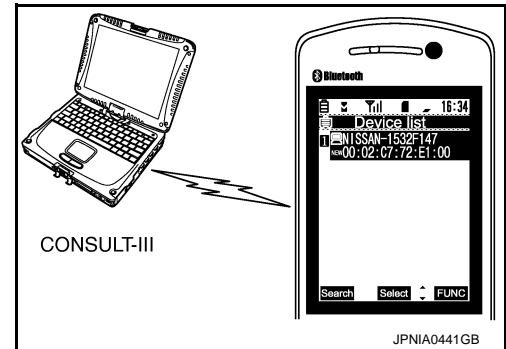
If cellular phone and TEL adapter unit cannot be connected with Bluetooth™ communication, following procedure allows the technician to judge which device has malfunction.

1. Turn on a cellular phone, not connecting Bluetooth™ communication.
2. Start CONSULT-III, then start Windows®.
3. Set CONSULT-III near a cellular phone.
4. 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 malfunction. 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.



#### Trouble Diagnosis Chart by Symptom



Symptoms	Check items	Possible malfunction location/Action to take
Does not recognize cellular phone connection.	Repeat the registration of cellular phone.	TEL adapter unit
Hands-free phone cannot be established.	<ul style="list-style-type: none"> <li>• Both the reception and the speech cannot be performed.</li> <li>• Audio cannot be operated by steering switch.</li> </ul>	TEL adapter unit power supply and ground circuit. Refer to <a href="#">AV-58, "TEL ADAPTER UNIT : Diagnosis Procedure"</a> .
	<ul style="list-style-type: none"> <li>• Both the reception and the speech cannot be performed.</li> <li>• Audio can be operated by steering switch.</li> </ul>	Telephone ON signal circuit. Refer to <a href="#">AV-86, "Diagnosis Procedure"</a> .
The other party's voice cannot be heard by hands-free phone.	Audio system sound is normal.	Sound signal (telephone voice, telephone guidance) circuit
	Audio system sound does not sound.	Refer to <a href="#">AV-179, "Symptom Table"</a> .
Originating sound is not heard by the other party with hands-free phone communication.	Sound operation function is normal.	TEL adapter unit
	Sound operation function does not work.	Microphone signal circuit. Refer to <a href="#">AV-84, "Diagnosis Procedure"</a> .
When hands-free phone is in use, the information (connection time etc.) is not displayed on the audio screen.	—	AV communication signal (H, L)

#### RELATED TO STEERING SWITCH

# HANS-FREE PHONE SYMPTOMS

## [BOSE AUDIO WITHOUT NAVIGATION]

< SYMPTOM DIAGNOSIS >

Symptoms	Possible malfunction location / Action to take
All steering switches are not operated.	Steering switch signal ground circuit. Refer to <a href="#">AV-64, "Diagnosis Procedure"</a> .
Only specified switch cannot be operated.	Steering switch
“  ”, “MENU UP”, “MENU DOWN” and “SOURCE” switches are not operated.	<ul style="list-style-type: none"> <li>Steering switch signal A circuit (steering switch to TEL adapter unit). Refer to <a href="#">AV-60, "Diagnosis Procedure"</a>.</li> <li>Steering switch signal A circuit (TEL adapter unit to audio unit). Refer to <a href="#">AV-66, "Diagnosis Procedure"</a>.</li> </ul>
“  ”, “VOL UP” and “VOL DOWN” switches are not operated.	<ul style="list-style-type: none"> <li>Steering switch signal B circuit (steering switch to TEL adapter unit). Refer to <a href="#">AV-62, "Diagnosis Procedure"</a>.</li> <li>Steering switch signal B circuit (TEL adapter unit to audio unit). Refer to <a href="#">AV-68, "Diagnosis Procedure"</a>.</li> </ul>

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# NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## NORMAL OPERATING CONDITION

### Description

INFOID:000000005511765

#### RELATED TO AUDIO

- The majority of the audio malfunctions are the result of outside causes (bad CD, 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 that noise is caused and/or changed by engine speed, ignition switch turned to each position, and operation of each piece of electrical equipment. 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 that 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.

Symptoms	Cause and Counter measure
Cannot play	Check that the CD was inserted correctly.
	Check that the CD is scratched or dirty.
	Check that there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.
	The player will play correctly after it returns to the normal temperature if there is a temperature increase error.
	Only the music CD files (CD-DA data) will be played if there is a mixture of music CD files (CD-DA data) and MP3/WMA files on a CD.
	Files with extensions other than ".MP3", ".WMA", ".mp3", or ".wma" cannot be played.
	Check that the finalization process, such as session close and disc close, is done for the disc.
Poor sound quality	Check that the CD is scratched or dirty.
	Check that the CD 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, or if it is a multi session disc, some time may be required before the music starts playing.
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 TELEPHONE

Symptom	Possible cause	Possible solution
The voice on the other side is difficult to be heard. The voice is difficult to reach the other side of the connection.	The interior of the vehicle is too noisy.	Close the windows or have other occupants be quiet.
	The volume of the voice is too low.	Speak louder.
	Pronunciation is unclear.	Speak clearly.

< PRECAUTION >

PRECAUTION

PRECAUTIONS  
EXCEPT FOR MEXICO

EXCEPT FOR MEXICO : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000005548681

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.

EXCEPT FOR MEXICO : Precaution for Battery Service

INFOID:000000005511767

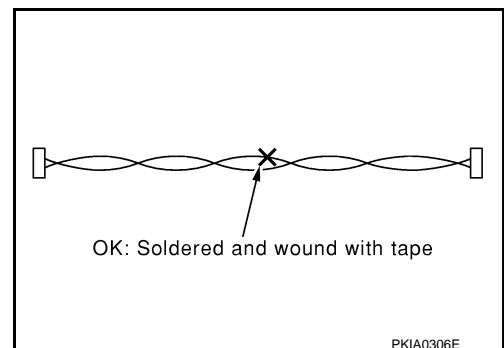
Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

EXCEPT FOR MEXICO : Precaution for Harness Repair

INFOID:000000005548688

AV COMMUNICATION SYSTEM

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



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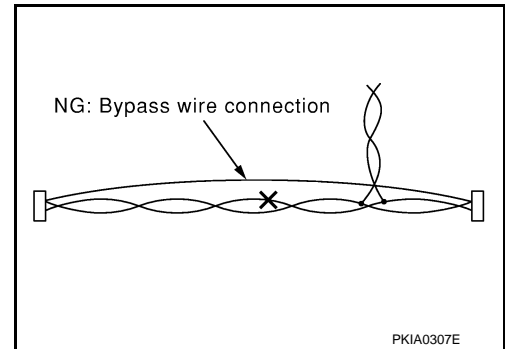
AV

## 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.)



### FOR MEXICO

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

INFOID:000000005548682

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. 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.

#### FOR MEXICO : Precaution for Battery Service

INFOID:000000005548683

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

#### FOR MEXICO : Precaution for Harness Repair

INFOID:000000005548687

#### AV COMMUNICATION SYSTEM

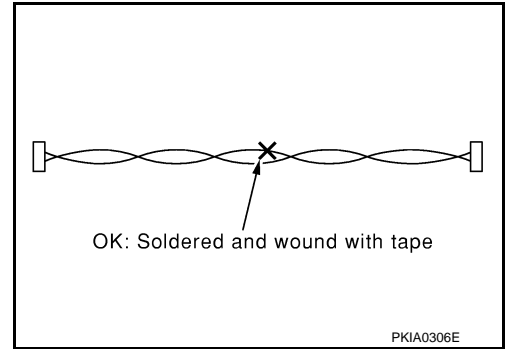


# PRECAUTIONS

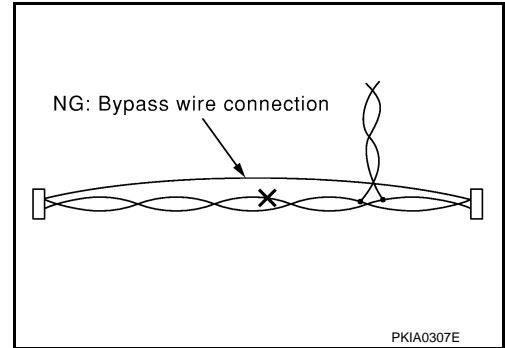
## [BOSE AUDIO WITHOUT NAVIGATION]

### < PRECAUTION >

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



- 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 >

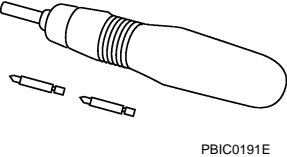
[BOSE AUDIO WITHOUT NAVIGATION]

## PREPARATION

### PREPARATION

#### Commercial Service Tools

INFOID:000000005511768

Tool name	Description
<p data-bbox="162 520 272 546">Power tool</p>  <p data-bbox="829 632 899 646">PBIC0191E</p>	<p data-bbox="1008 520 1192 546">Loosening screws</p>

# AUDIO UNIT

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

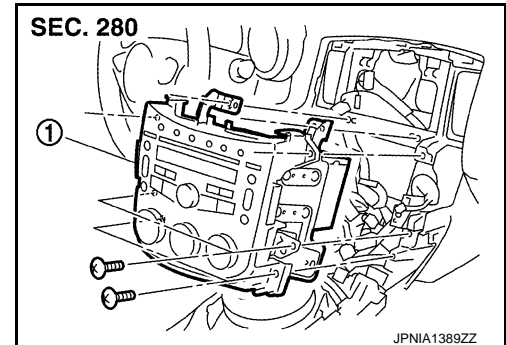
## REMOVAL AND INSTALLATION

### AUDIO UNIT

#### Exploded View

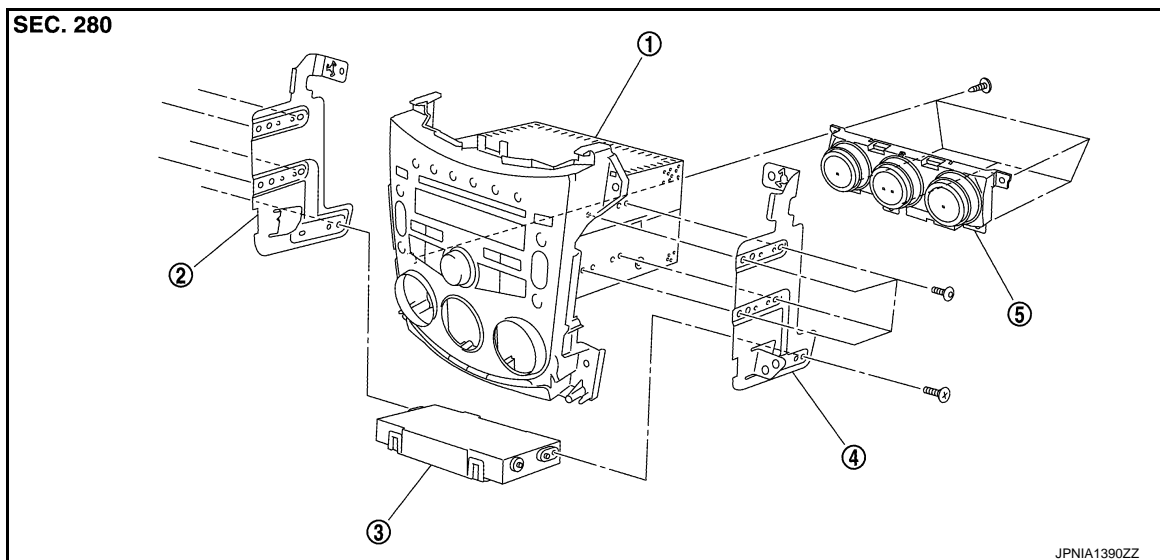
#### REMOVAL

INFOID:000000005511769



1. Audio unit

#### DISASSEMBLY



1. Audio unit
2. Bracket LH
3. A/C auto amp.
4. Bracket RH
5. A/C control

#### Removal and Installation

INFOID:000000005511770

#### REMOVAL

1. Remove cluster lid C. Refer to [IP-12, "Exploded View"](#).
2. Remove audio unit with A/C auto amp. and A/C control as a single unit from the body.
3. Remove screws to remove A/C control.
4. Remove bracket screws to remove audio unit.

#### INSTALLATION

Install in the reverse order of removal.

#### NOTE:

Models for Mexico require the switching of AM frequency band of the radio to Step after replacing audio unit. Refer to [AV-44, "System Description"](#).

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## FRONT DOOR SPEAKER

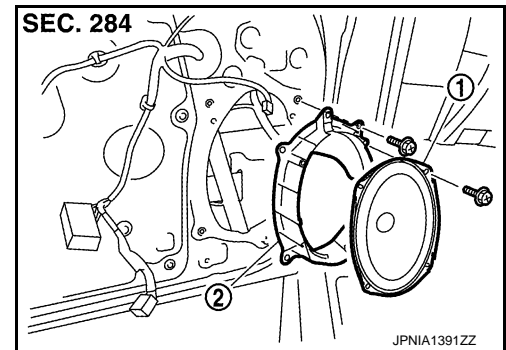
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

### FRONT DOOR SPEAKER

#### Exploded View

INFOID:000000005511814



1. Front door speaker
2. Speaker bracket

#### Removal and Installation

INFOID:000000005511815

##### REMOVAL

1. Remove door finisher. Refer to [INT-43, "Exploded View"](#).
2. Remove front door speaker screws, then disconnect front door speaker connector and remove front door speaker.

##### INSTALLATION

Install in the reverse order of removal.

# TWEETER

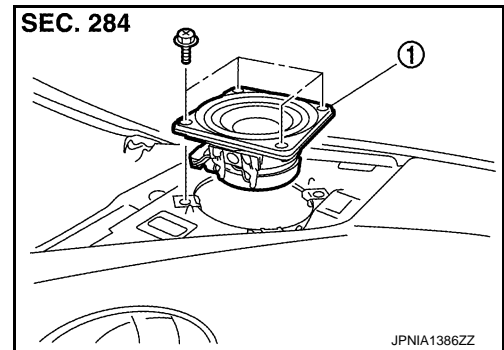
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## TWEETER

### Exploded View

INFOID:000000005511816



1. Tweeter

### Removal and Installation

INFOID:000000005511817

#### REMOVAL

1. Remove speaker grille. Refer to [JP-12. "Exploded View"](#).
2. Remove tweeter screws, then lift up tweeter, disconnect connector and remove tweeter.

#### INSTALLATION

Install in the reverse order of removal.

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## REAR SPEAKER

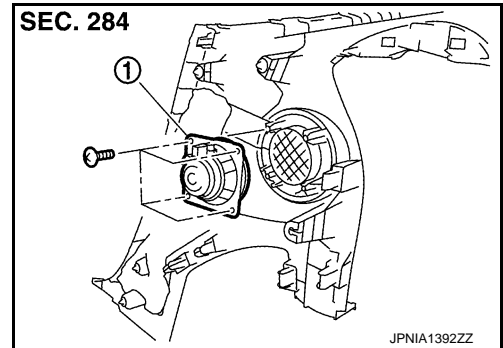
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

### REAR SPEAKER

#### Exploded View

INFOID:000000005511818



1. Rear speaker

#### Removal and Installation

INFOID:000000005511819

##### REMOVAL

1. Remove rear side finisher. Refer to [INT-17. "Exploded View"](#) (coupe models) or [INT-52. "REAR SIDE FINISHER : Exploded View"](#) (roadster models).
2. Remove rear speaker screws, then remove rear speaker.

##### INSTALLATION

Install in the reverse order of removal.

# WOOFER

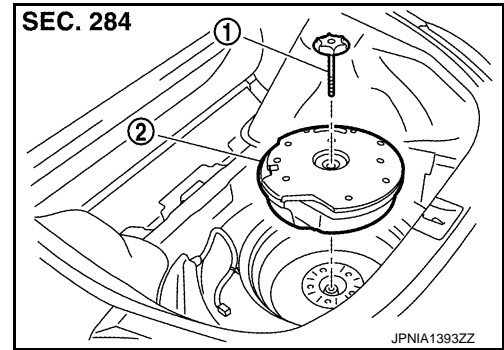
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## WOOFER

### Exploded View

INFOID:000000005511820



1. Clamp
2. Woofer

### Removal and Installation

INFOID:000000005511821

#### REMOVAL

1. Remove luggage spacer. Refer to [INT-83. "Exploded View"](#).
2. Remove clamp, then disconnect woofer connector and remove the woofer.

#### INSTALLATION

Install in the reverse order of removal.

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## REAR WOOFER

### Removal and Installation

INFOID:000000005511822

#### REMOVAL

1. Remove the mounting clip on the front side of the storage room finisher and the soft top bumper rubber. Refer to [RF-225, "STORAGE ROOM FINISHER : Removal and Installation"](#).
2. Turn up the storage room finisher to obtain work space.
3. Remove rear woofer bracket.
4. Remove the screw and disconnect the connector to remove the rear woofer.

#### INSTALLATION

Install in the reverse order of removal.



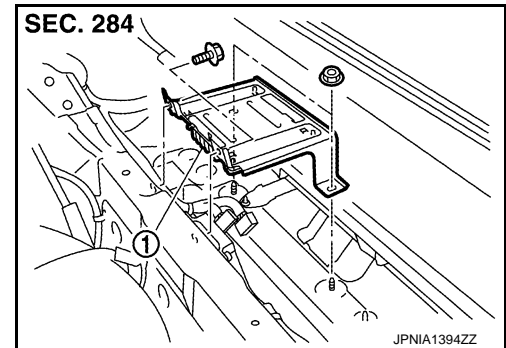
## BOSE AMP.

### COUPE

#### COUPE : Exploded View

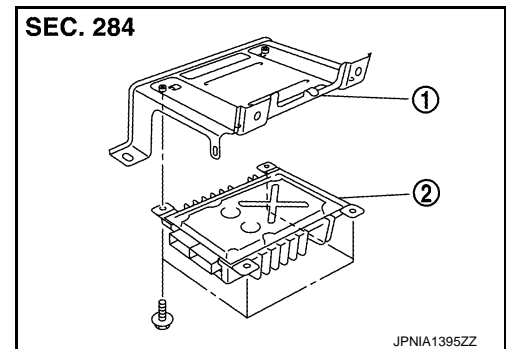
INFOID:000000005511823

#### REMOVAL



1. BOSE amp.

#### DISASSEMBLY



1. Bracket
2. BOSE amp.

#### COUPE : Removal and Installation

INFOID:000000005511824

#### REMOVAL

1. Remove luggage floor spacer front. Refer to [INT-28. "Exploded View"](#).
2. Disconnect BOSE amp. connector, remove BOSE amp. with bracket as a single unit from body.
3. Remove BOSE amp. bracket screws to remove BOSE amp.

#### INSTALLATION

Install in the reverse order of removal.

### ROADSTER

#### ROADSTER : Removal and Installation

INFOID:000000005511825

#### REMOVAL

1. Remove luggage floor spacer front. Refer to [INT-28. "Exploded View"](#).
2. Disconnect BOSE amp. connector, remove BOSE amp. with bracket as a single unit from body.
3. Remove BOSE amp. bracket screws to remove BOSE amp.

#### INSTALLATION

Install in the reverse order of removal.

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## ANTENNA AMP.

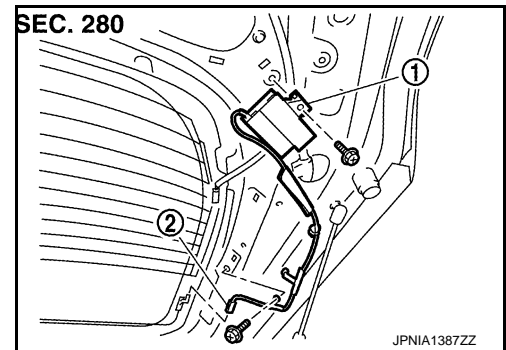
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

### ANTENNA AMP.

#### Exploded View

INFOID:000000005511826



1. Antenna amp.
2. Connector

#### Removal and Installation

INFOID:000000005511827

##### REMOVAL

1. Remove back door finisher side. Refer to [INT-30, "Exploded View"](#).
2. Disconnect connector and remove screw, then remove antenna amp.

##### INSTALLATION

Install in the reverse order of removal.

# ANTENNA BASE

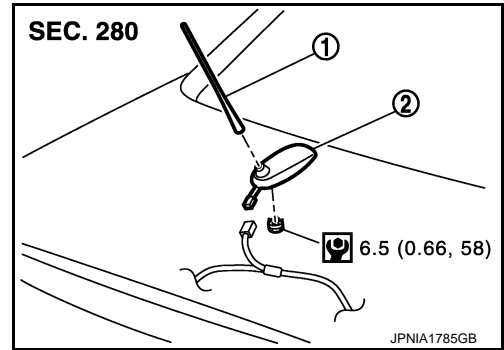
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## ANTENNA BASE

### Exploded View

INFOID:000000005511828



1. Antenna rod
2. Antenna base

Refer to [GI-4, "Components"](#) for symbols in the figure.

### Removal and Installation

INFOID:000000005511829

#### REMOVAL

1. Remove trunk lid finisher inner. Refer to [INT-99, "Exploded View"](#).
2. Remove antenna base mounting nut, disconnect the antenna base connector.
3. Remove antenna base.

#### INSTALLATION

Installation is the reverse order of removal.

#### **CAUTION:**

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

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AV

# SATELLITE RADIO TUNER

< REMOVAL AND INSTALLATION >

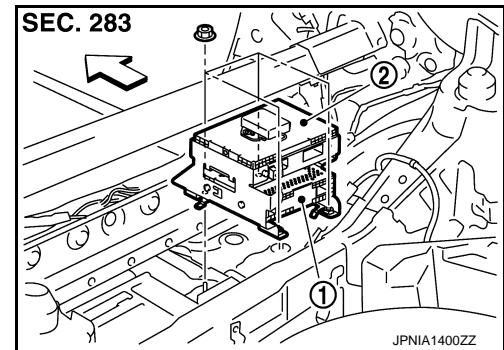
[BOSE AUDIO WITHOUT NAVIGATION]

## SATELLITE RADIO TUNER

### Exploded View

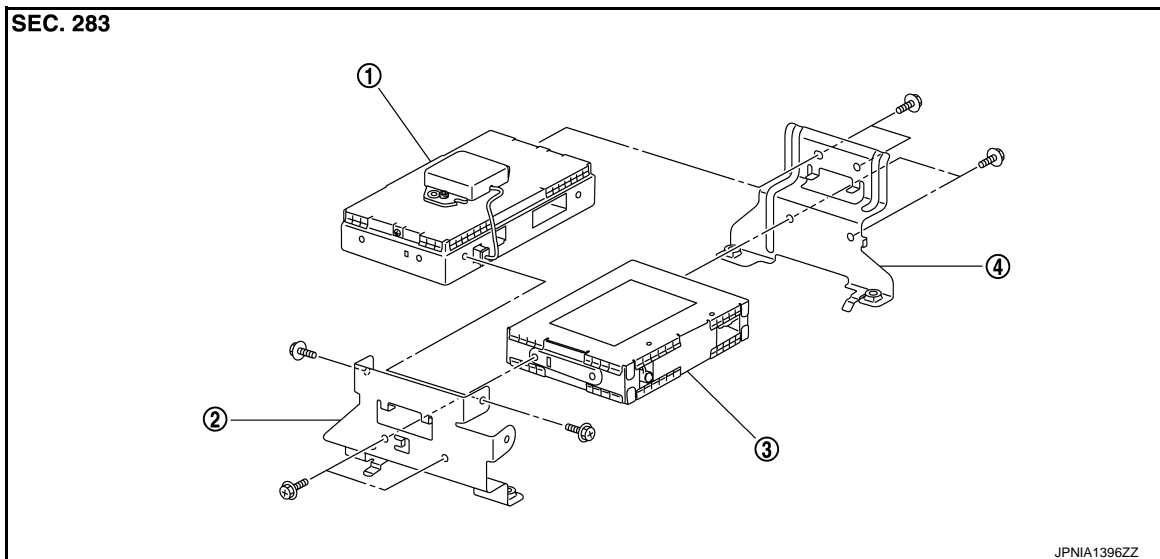
INFOID:000000005511783

### REMOVAL



1. Satellite radio tuner
  2. TEL adapter unit
- ←: Vehicle front

### DISASSEMBLY



1. TEL adapter unit
2. Bracket LH
3. Satellite radio tuner
4. Bracket RH

### Removal and Installation

INFOID:000000005511784

#### REMOVAL

1. Remove luggage floor spacer front. Refer to [INT-83, "Exploded View"](#).
2. Disconnect TEL adapter unit connector and satellite radio tuner connector.
3. Remove satellite radio tuner with TEL adapter unit as a single unit from the body.
4. Remove bracket screws, and then remove satellite radio tuner.

#### INSTALLATION

Install in the reverse order of removal.

# SATELLITE RADIO ANTENNA

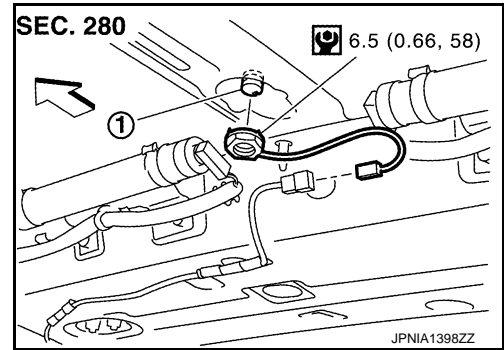
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## SATELLITE RADIO ANTENNA

### Exploded View

INFOID:000000005511785



1. Satellite radio antenna

←: Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

### Removal and Installation

INFOID:000000005511786

#### REMOVAL

1. Remove rear pillar finisher (LH/RH). Refer to [INT-17, "Exploded View"](#).
2. Pull down headlining (rear side) and obtain space for work between vehicle and headlining. Refer to [INT-25, "Exploded View"](#).
3. Disconnect satellite radio antenna connector.
4. Remove satellite radio antenna mounting nut, then remove satellite radio antenna from roof panel.

#### INSTALLATION

Install in the reverse order of removal.

#### CAUTION:

- Never bend headlining when pull down headlining (rear side).
- When satellite radio antenna mounting nut tightening torque is loose, be careful about tightening torque. Antenna sensitivity becomes poor, and when it is excessive, roof panel may become deformed.

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## STEERING SWITCH

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

---

### STEERING SWITCH

#### Exploded View

INFOID:000000005511830

Refer to [ST-14. "Exploded View"](#).

#### Removal and Installation

INFOID:000000005511831

#### REMOVAL

Refer to [ST-14. "Exploded View"](#).

#### INSTALLATION

Install in the reverse order of removal.

# TEL ADAPTER UNIT

< REMOVAL AND INSTALLATION >

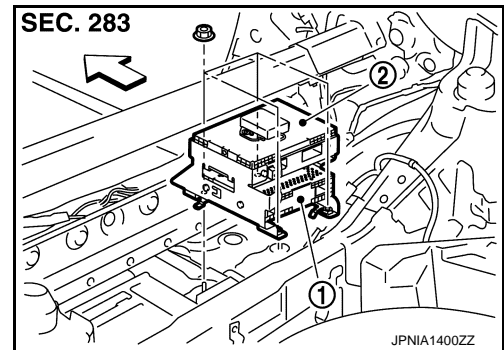
[BOSE AUDIO WITHOUT NAVIGATION]

## TEL ADAPTER UNIT

### Exploded View

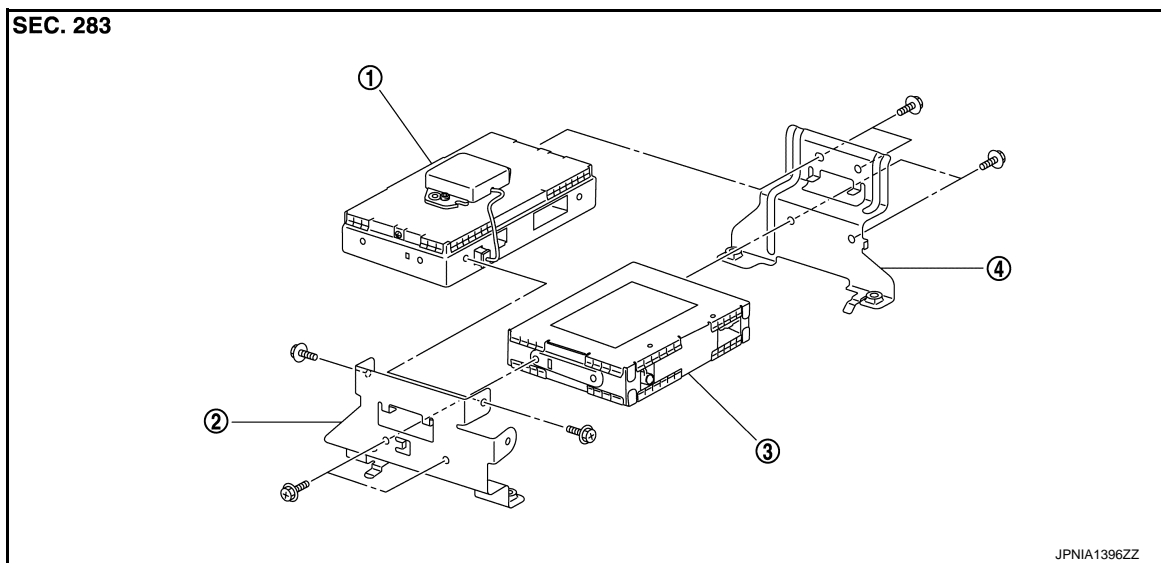
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### REMOVAL



1. Satellite radio tuner
  2. TEL adapter unit
- ← : Vehicle front

### DISASSEMBLY



1. TEL adapter unit
2. Bracket LH
3. Satellite radio tuner
4. Bracket RH

### Removal and Installation

INFOID:000000005511790

#### REMOVAL

1. Remove luggage floor spacer front. Refer to [INT-83, "Exploded View"](#).
2. Disconnect TEL adapter unit connector and satellite radio tuner connector.
3. Remove TEL adapter unit with satellite radio tuner as a single unit from the body.
4. Remove bracket screws, and then remove TEL adapter unit.

#### INSTALLATION

Install in the reverse order of removal.

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AV

# MICROPHONE

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

## MICROPHONE

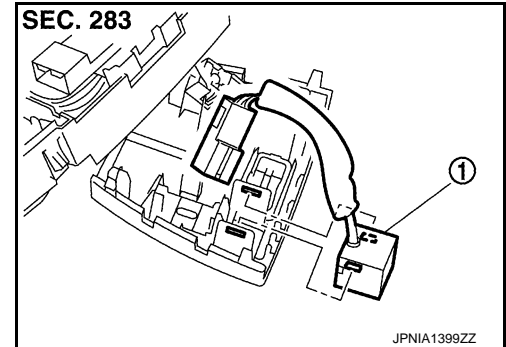
### Exploded View

INFOID:000000005548640

### REMOVAL

Refer to [INT-83, "Exploded View"](#).

### DISASSEMBLY



1. Microphone

### Removal and Installation

INFOID:000000005548641

### REMOVAL

1. Remove map lamp. Refer to [INL-54, "Exploded View"](#) (coupe models), or [INL-118, "Exploded View"](#) (roadster models).
2. Press the pawl to remove microphone from map lamp.

### INSTALLATION

Install in the reverse order of removal.



# ANTENNA FEEDER

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

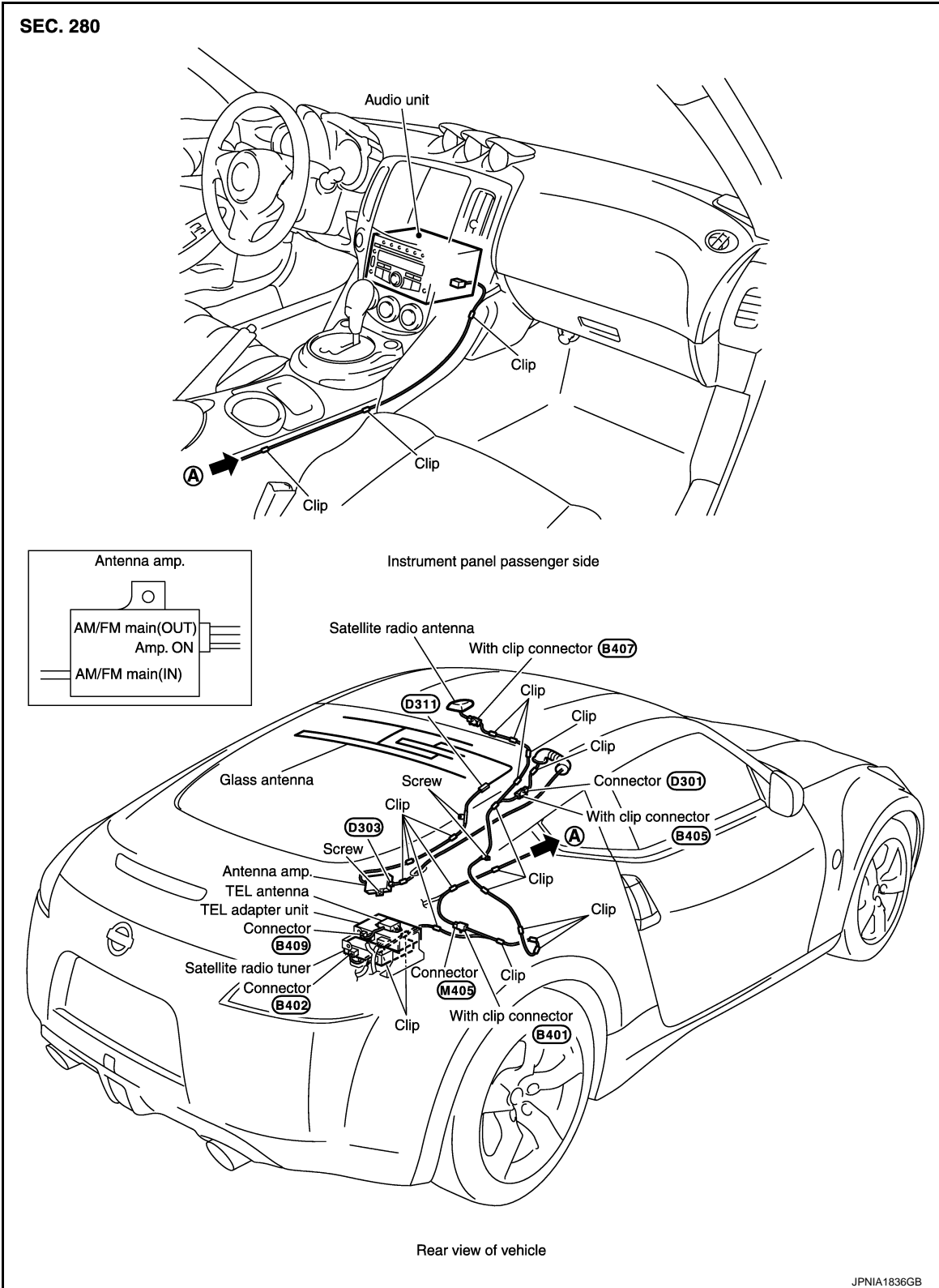
## ANTENNA FEEDER

### COUPE

### COUPE : Feeder Layout

INFOID:000000005511791

EXCEPT FOR MEXICO



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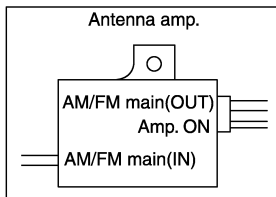
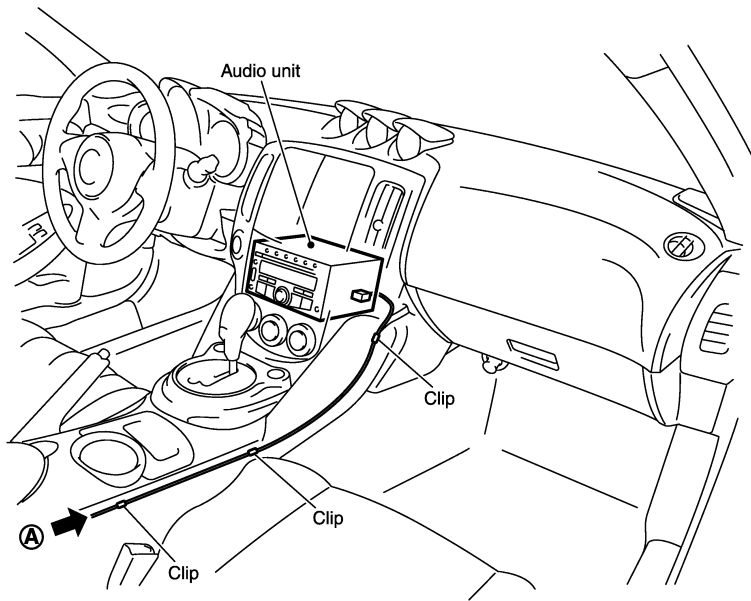
# ANTENNA FEEDER

< REMOVAL AND INSTALLATION >

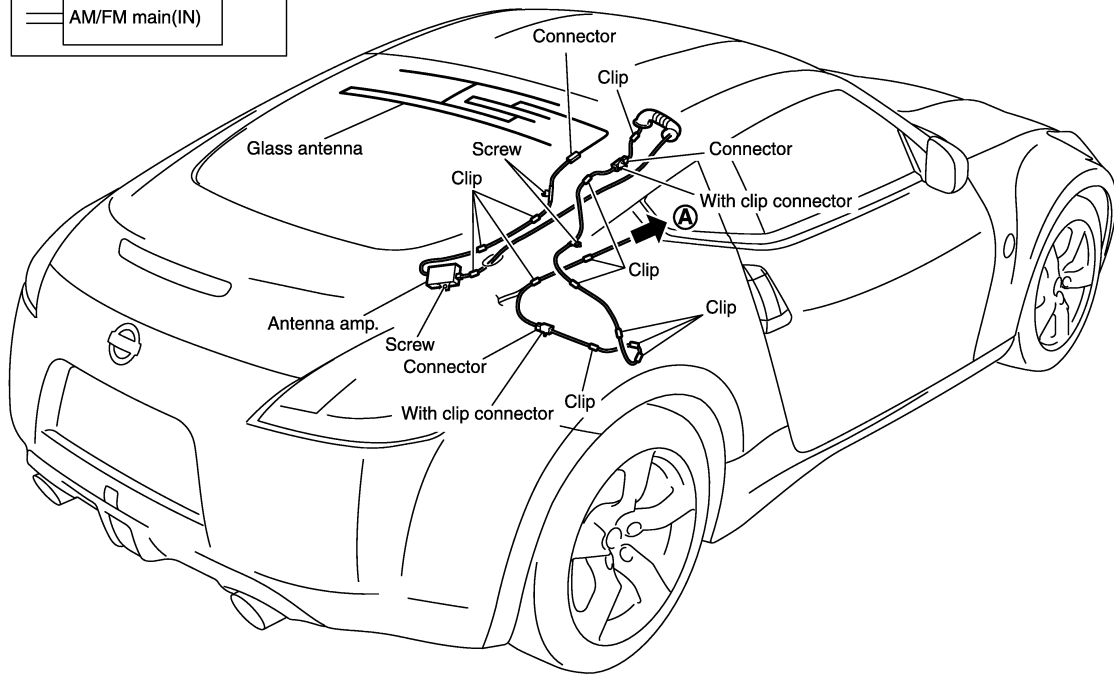
[BOSE AUDIO WITHOUT NAVIGATION]

FOR MEXICO

SEC. 280



Instrument panel passenger side



Rear view of vehicle

JSNIA2126GB

ROADSTER

# ANTENNA FEEDER

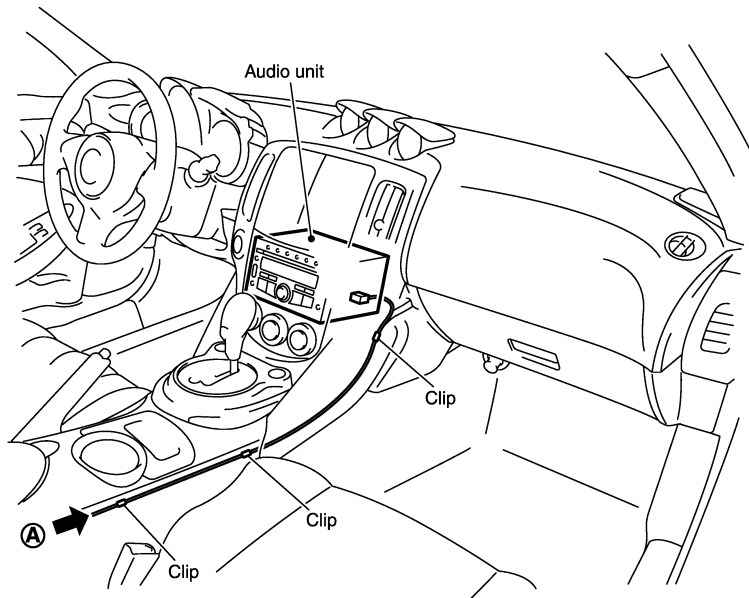
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

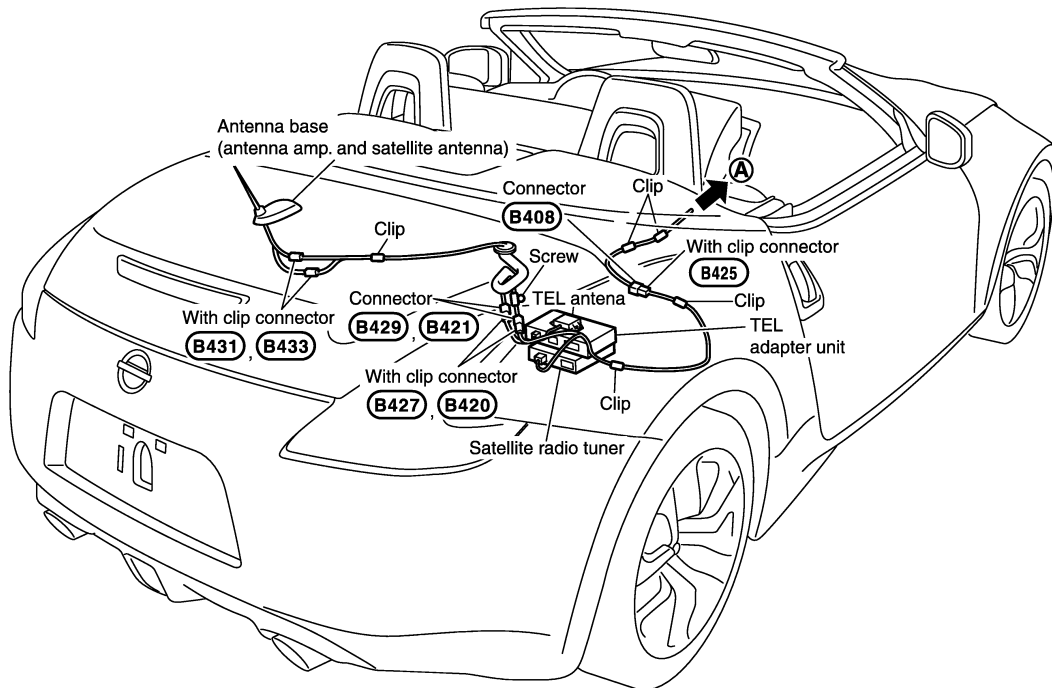
## ROADSTER : Feeder Layout

INFOID:00000000518075

SEC. 280



Instrument panel passenger side



Rear view of vehicle

JPNIA1838GB

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&lt; PRECAUTION &gt;

**PRECAUTION****PRECAUTIONS****EXCEPT FOR MEXICO****EXCEPT FOR MEXICO : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"**

INFOID:000000005548698

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.**

**EXCEPT FOR MEXICO : Precaution for Battery Service**

INFOID:000000005451304

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

**EXCEPT FOR MEXICO : Precaution for Trouble Diagnosis**

INFOID:000000005451307

**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.

**EXCEPT FOR MEXICO : Precaution for Harness Repair**

INFOID:000000005451308

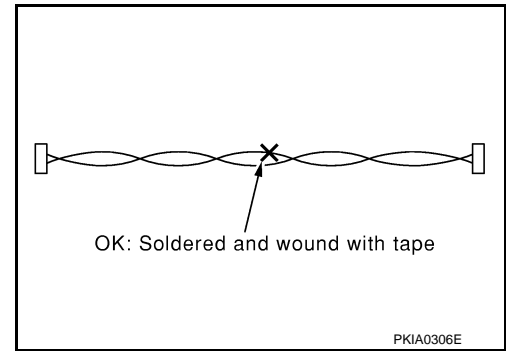
**AV COMMUNICATION SYSTEM**

# PRECAUTIONS

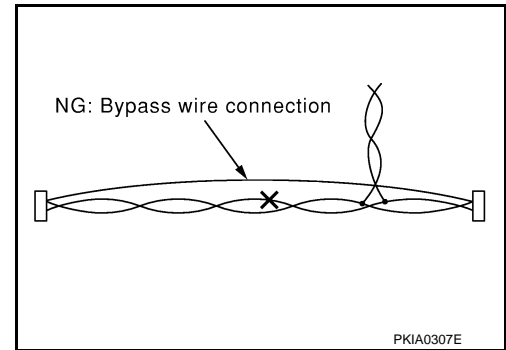
## < PRECAUTION >

## [BOSE AUDIO WITH NAVIGATION]

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



- 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.)



## FOR MEXICO

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

INFOID:000000005669072

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. 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.

### FOR MEXICO : Precaution for Battery Service

INFOID:000000005669073

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

# PRECAUTIONS

< PRECAUTION >

[BOSE AUDIO WITH NAVIGATION]

## FOR MEXICO : Precaution for Trouble Diagnosis

INFOID:000000005669287

### AV COMMUNICATION SYSTEM

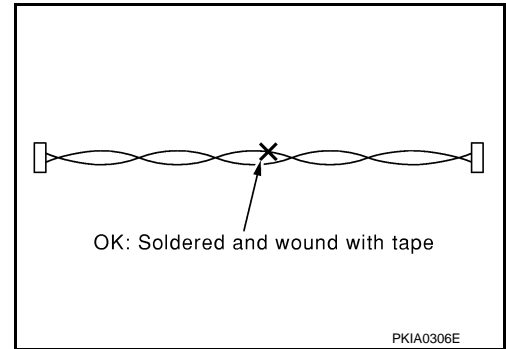
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

## FOR MEXICO : Precaution for Harness Repair

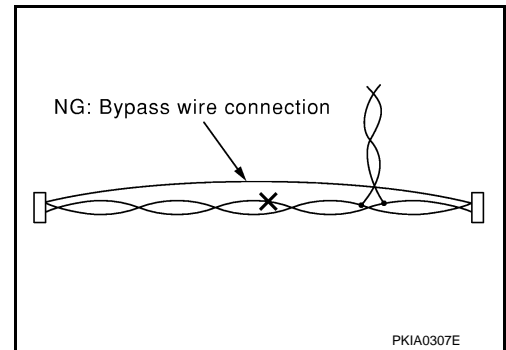
INFOID:000000005669288

### AV COMMUNICATION SYSTEM

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



- 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 >

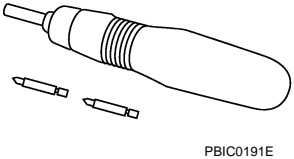
[BOSE AUDIO WITH NAVIGATION]

## PREPARATION

### PREPARATION

#### Commercial Service Tools

INFOID:000000005548699

Tool name	Description
<p>Power tool</p>  <p>PBIC0191E</p>	<p>Loosening screws</p>

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# COMPONENT PARTS

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

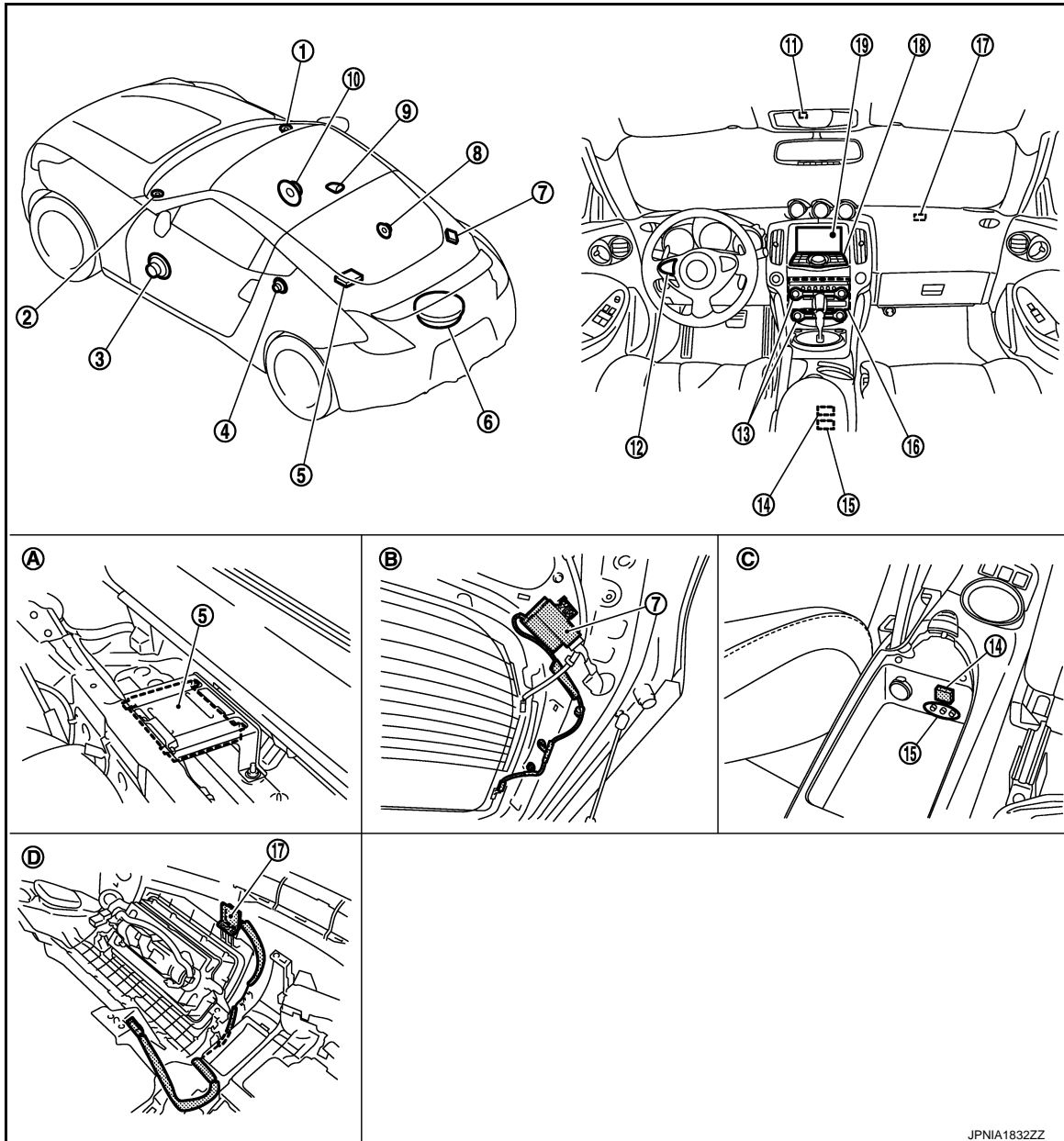
## SYSTEM DESCRIPTION

### COMPONENT PARTS

#### Component Parts Location

INFOID:000000005451309

#### COUPE MODELS



JPNIA1832ZZ

- |                                      |                      |                            |
|--------------------------------------|----------------------|----------------------------|
| 1. Tweeter RH                        | 2. Tweeter LH        | 3. Front door speaker LH   |
| 4. Rear speaker LH                   | 5. BOSE amp.         | 6. Woofer                  |
| 7. Antenna amp.                      | 8. Rear speaker RH   | 9. Satellite radio antenna |
| 10. Front door speaker RH            | 11. Microphone       | 12. Steering switch        |
| 13. Preset switch                    | 14. USB connector    | 15. Auxiliary input jacks  |
| 16. AV control unit                  | 17. GPS antenna      | 18. Multifunction switch   |
| 19. Front display unit               |                      |                            |
| A. Luggage side LH                   | B. Back door side RH | C. Consol box inner        |
| D. Instrument panel remove condition |                      |                            |

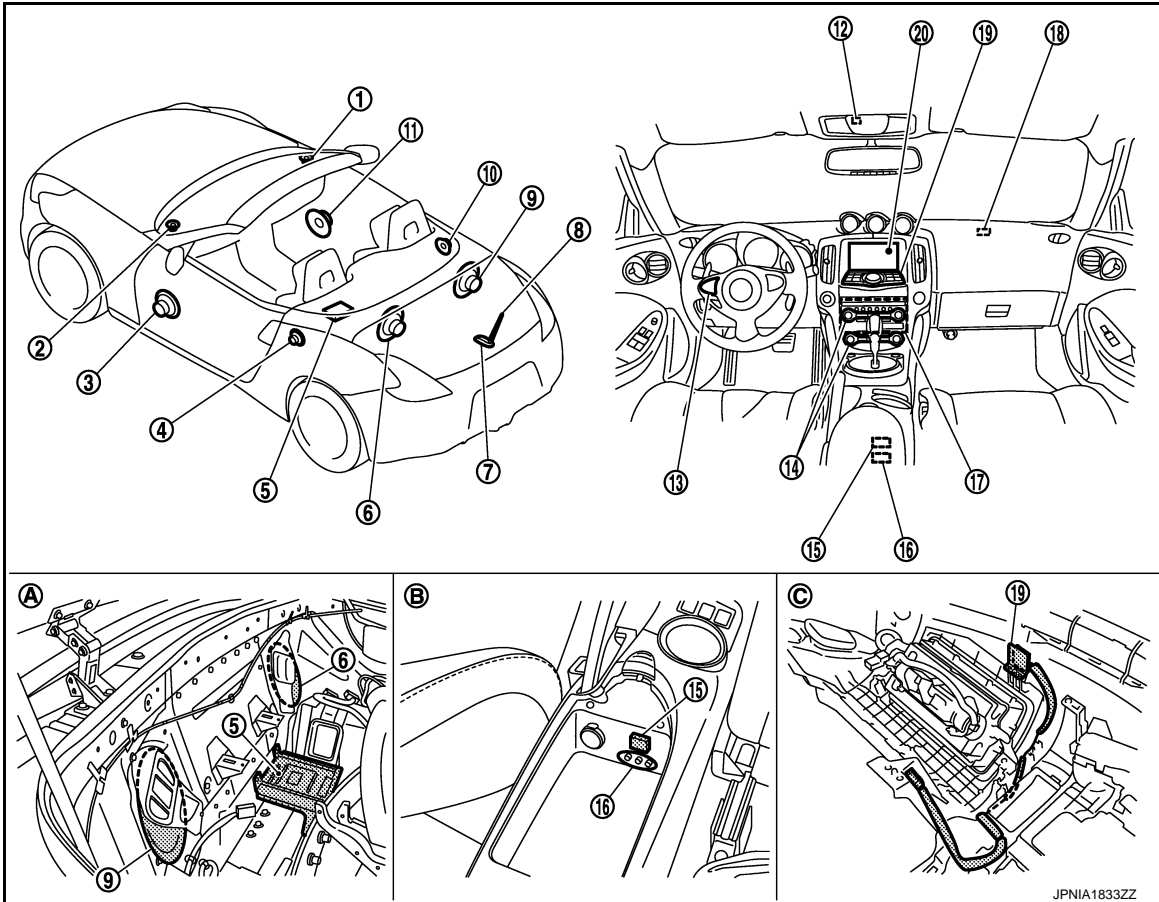


# COMPONENT PARTS

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

ROADSTER MODELS



- |                           |                        |                                      |
|---------------------------|------------------------|--------------------------------------|
| 1. Tweeter RH             | 2. Tweeter LH          | 3. Front door speaker LH             |
| 4. Rear speaker LH        | 5. BOSE amp.           | 6. Rear woofer LH                    |
| 7. Antenna base           | 8. Antenna rod         | 9. Rear woofer RH                    |
| 10. Rear speaker RH       | 11. Front door speaker | 12. Microphone                       |
| 13. Steering switch       | 14. Preset switch      | 15. USB connector                    |
| 16. Auxiliary input jacks | 17. AV control unit    | 18. GPS antenna                      |
| 19. Multifunction switch  | 20. Front display unit |                                      |
| A. Luggage side LH        | B. Consol box inner    | C. Instrument panel remove condition |

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# COMPONENT PARTS

[BOSE AUDIO WITH NAVIGATION]

< SYSTEM DESCRIPTION >

## Component Description

INFOID:000000005451310

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 AV communication. It operates each system according to AV communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, USB connection, DVD play function and vehicle information functions.</li> <li>It is connected to ECM and combination meter via CAN communication to obtain necessary information for the vehicle information 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>Update of map data is performed with the DVD-ROM.</li> <li>It includes the Bluetooth™ module function.</li> </ul>
Front display unit	<ul style="list-style-type: none"> <li>Front display image is controlled by the serial communication from AV control unit.</li> <li>RGB digital image signal is input from AV control unit.</li> <li>Composite image signal 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.	<p>Coupe models</p> <ul style="list-style-type: none"> <li>Inputs power (BOSE amp. ON) and sound signal from AV control unit, and outputs sound signal to woofer and each speaker.</li> <li>Woofer amp. ON signal is transmitted to woofer.</li> </ul> <p>Roadster models</p> <ul style="list-style-type: none"> <li>Inputs power (BOSE amp. ON) and sound signal from AV control unit, and outputs sound signal to each speaker.</li> <li>Inputs roof status signal from retractable soft top control unit.</li> </ul>
Front door speaker	<ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs mid and low range sound.</li> </ul>
Tweeter	<ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs high range sound.</li> </ul>
Rear speaker	<ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs high, mid and low range sound.</li> </ul>
Woofer (coupe models)	<ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs low range sound.</li> </ul>
Rear woofer (roadster models)	<ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs low range sound.</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, etc. 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, etc. 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 disk ejection operating signal is performed by wiring harness.</li> </ul>
Steering switch	<ul style="list-style-type: none"> <li>Operations for audio, hands-free phone, vice control and navigation, etc. 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 for hands-free phone operation and voice recognition.</li> <li>Microphone signal is transmitted to AV control unit.</li> <li>Power (Microphone VCC) is supplied from AV control unit.</li> </ul>
Auxiliary input jacks	Image signal and sound signal of auxiliary input is transmitted to AV control unit.

## COMPONENT PARTS

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

Part name	Description
GPS antenna	GPS signal is received and transmitted to AV control unit.
Antenna amp. (coupe models)	<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>
Antenna base (roadster models)	<p>An antenna base integrated with radio antenna amp. and satellite radio antenna are adopted.</p> <p style="margin-left: 20px;">Radio antenna</p> <ul style="list-style-type: none"> <li>• Radio signal received by rod 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 style="margin-left: 20px;">Satellite radio antenna</p> <ul style="list-style-type: none"> <li>• Receives the satellite radio wave and outputs it to the AV control unit.</li> </ul>
USB connector	Image signal* and sound signal of USB input are transmitted to AV control unit.
Satellite radio antenna	Receives the satellite radio wave and outputs it to the AV control unit.

\*: Image signals cannot be received from iPod®.

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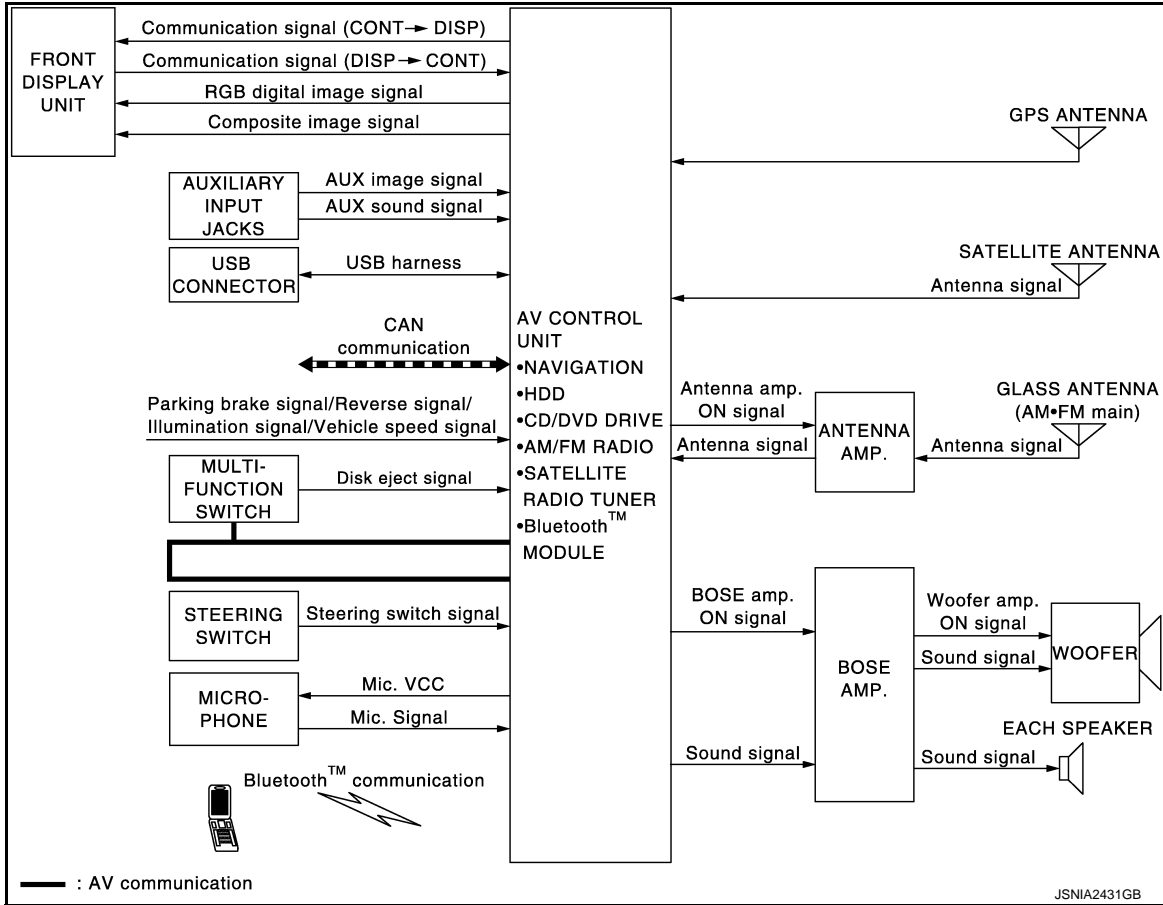
SYSTEM

MULTI AV SYSTEM

MULTI AV SYSTEM : System Diagram

INFOID:000000005451311

COUPE MODELS



NOTE:

- Woofer, illustrated in the above figure, integrates two woofers and a woofer amp.
- The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

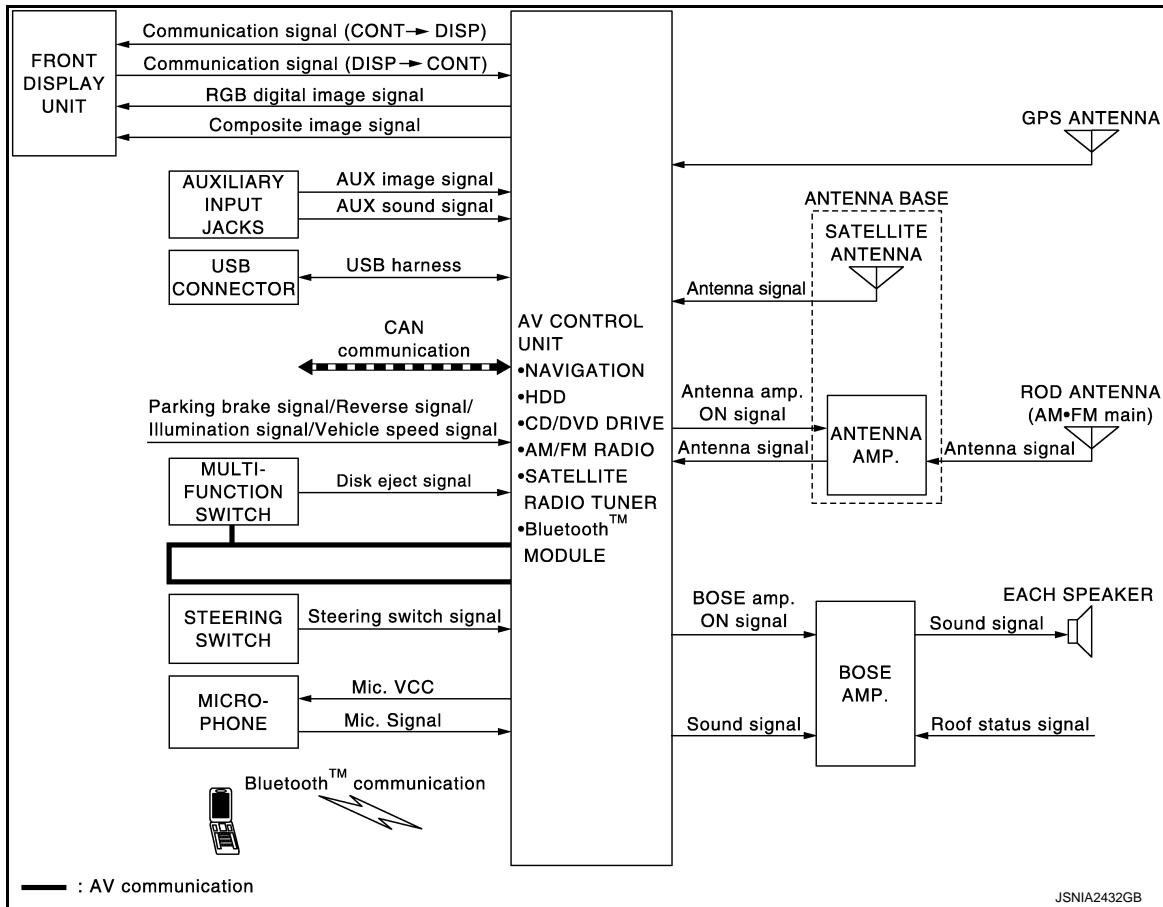
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# SYSTEM

< SYSTEM DESCRIPTION >

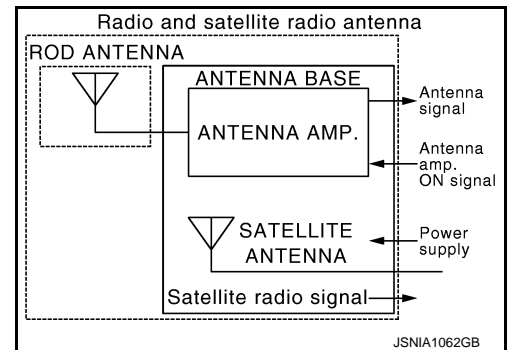
[BOSE AUDIO WITH NAVIGATION]

## ROADSTER MODELS



### NOTE:

- The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.
- An antenna base integrated with antenna amp. and satellite antenna are adopted.



## MULTI AV SYSTEM : System Description

INFOID:000000005451312

AV

Multi AV system means that the following systems are integrated.

FUNCTION NAME
Navigation system function
Audio function
Hands-free phone function
Auxiliary input function
Voice recognition function
Touch panel function
Vehicle information function

FUNCTION NAME
USB connection function
DVD play function

### COMMUNICATION SIGNAL

- 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).
- 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, combination meter. 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 front display unit and serial communication, and it transmits the required signal of display and display control and receives the response signal from front display unit.

### NAVIGATION SYSTEM FUNCTION

#### 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 digital image signal) to the front display unit.

#### Position Detection Principle

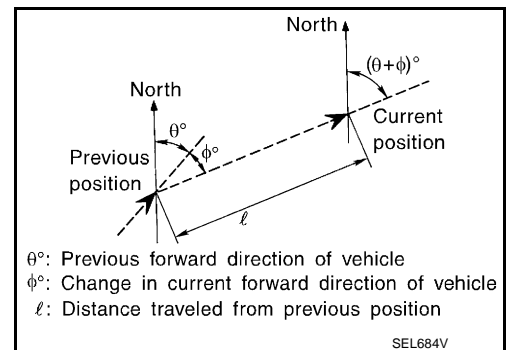
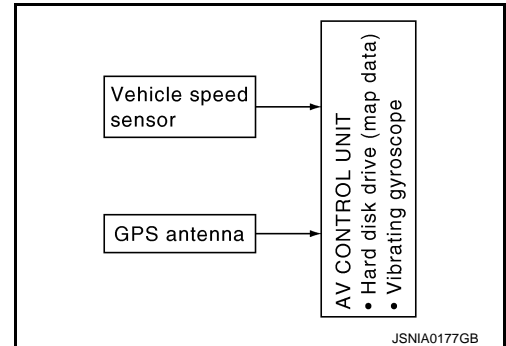
The navigation system periodically calculates the current vehicle position according to the following three types of signals.

- 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.



# SYSTEM

## < SYSTEM DESCRIPTION >

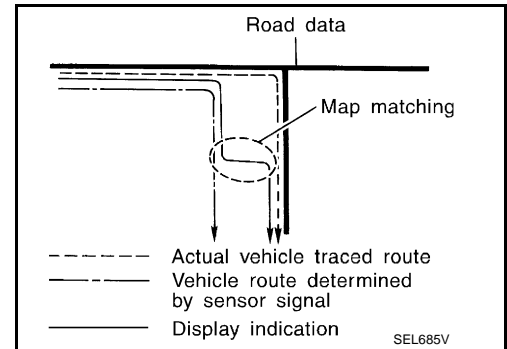
## [BOSE AUDIO WITH NAVIGATION]

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.

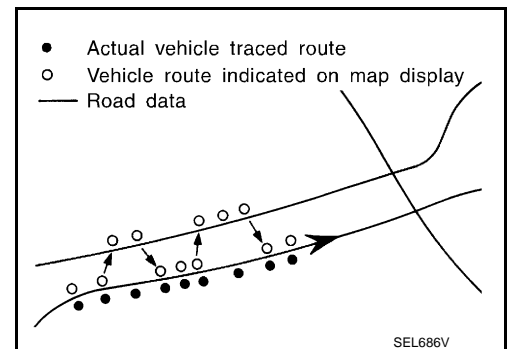
### Map-matching

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.

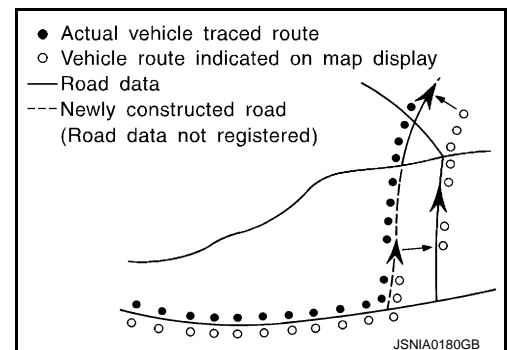
- In map-matching, several alternative routes are prepared and prioritized in addition to the road judged as currently driving on. Therefore, due to errors in the distance and/or direction, an incorrect road may be prioritized, and the current location mark may be repositioned to the incorrect road. 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)

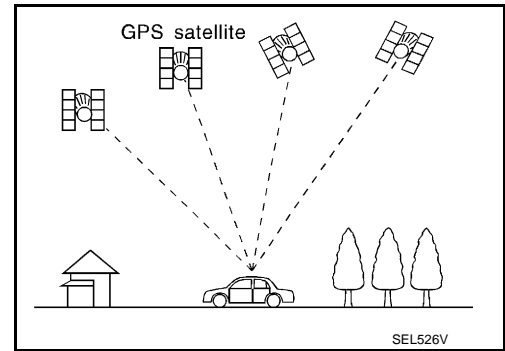
# SYSTEM

## < 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.

## AUDIO FUNCTION

The audio system is equipped with the following functions. Each function is operated with multifunction switch, preset switch, touch panel, steering switch or voice recognition. Operation status of audio is indicated at front display unit.

FUNCTION
AM/FM radio
Satellite radio
CD
Bluetooth™ audio
Music Box (Hard Disk Drive)
Sound equalizer automatic switching (Roadster models)

### 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 disk ejection operating signal is performed by wiring harness.
- Operating signal is transmitted to AV control unit with steering switch signal when it is operated by steering switch.
- Refer to the following system description (“VOICE RECOGNITION FUNCTION” and “TOUCH PANEL SYSTEM”)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.

### 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 woofer and each speaker. (coupe models)



# SYSTEM

## < SYSTEM DESCRIPTION >

## [BOSE AUDIO WITH NAVIGATION]

- Audio signal is received by rod 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. (roadster models)

### Satellite Radio Mode

- Satellite radio tuner is built into AV control unit.
- Audio wave (satellite radio) is received by satellite radio 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 woofer and each speaker. (coupe models)
- Audio wave (satellite radio) is received by satellite radio 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. (roadster models)

### CD Mode

- CD function is built into AV control unit.
- AV control unit outputs audio signal to BOSE amp., and BOSE amp. outputs to woofer and each speaker. (coupe models)
- AV control unit outputs audio signal to BOSE amp., and BOSE amp. outputs to each speaker. (roadster models)

### Bluetooth™ Audio

- Bluetooth™ audio function is built into AV control unit.
- When the Bluetooth™ audio is connected to the portable audio equipped with the Bluetooth™ communication compliant profile via Bluetooth™ communication, it can be play the music data in the portable audio.
- A maximum of five Bluetooth™ devices including the audio devices and cellular phones can be registered in the AV control unit.

### Music Box Mode

- Music CD data is stored on HDD (Hard Disk Drive) that is built into AV control unit, and it can be played.
- AV control unit outputs music (sound signal) that is stored on HDD (Hard Disk Drive) to BOSE amp., and BOSE amp. outputs to woofer and each speaker. (coupe models)
- AV control unit outputs music (sound signal) that is stored on HDD (Hard Disk Drive) to BOSE amp., and BOSE amp. outputs to each speaker. (roadster models)

### Sound Equalizer Automatic Switching Function

Sound quality in a fully-open retractable soft top condition is improved by the correction for bringing the frequency characteristics in a fully-open retractable soft top condition closer to the characteristics in a fully-closed retractable soft top condition. When the retractable soft top is in a fully-open condition, sound pressure is reduced due to the absence of sound echo generated by sound reflection from the retractable soft top. BOSE amp. detects an open-close condition of the retractable soft top by receiving a roof status signal from the retractable soft top control unit and switches the equalizer to correct the frequency characteristics in a fully-open retractable soft top condition. During the switching of the equalizer, audio stops temporarily due to the temporary mute.

## HANDS-FREE PHONE FUNCTION

- 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 front display unit.
- Guide sound that is heard during operation is input from AV control unit to BOSE amp. and output from front 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 front door speaker, and the signal is input to BOSE amp. via AV control unit by establishing Bluetooth™ communication from cellular phone.

## AUXILIARY INPUT FUNCTION

- Image and sound can be output from an external device by connecting a device with auxiliary input jacks.
- AUX image signals are transmitted to the display unit through AV control unit.

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# SYSTEM

## [BOSE AUDIO WITH NAVIGATION]

### < SYSTEM DESCRIPTION >

- AUX sound signals are transmitted to woofer and each speaker through AV control unit and BOSE amp. (coupe models)
- AUX sound signals are transmitted to each speaker through AV control unit and BOSE amp. (roadster models)

### VOICE RECOGNITION FUNCTION

- Each operation of multi AV system can be performed by inputting sound to microphone.
- Start of voice recognition system can be performed by steering switch.
- AV control unit is connected by CAN communication, and it receives roof status signal from the soft top control unit, then system operation is available only when the retractable soft top is closed. (roadster models)

### TOUCH PANEL SYSTEM

Each operation of multi AV system can be performed by directly touching a display.

### VEHICLE INFORMATION FUNCTION

- Status of audio, climate control system, fuel economy, maintenance and navigation are displayed.
- AV control unit displays the fuel consumption status while receiving data signal through CAN communication from ECM, combination meter.

### USB CONNECTION FUNCTION

- Connecting iPod® or USB memory allows the driver to play iPod® music files or USB memory-stored music files, video data, and image viewer data.
- Sound signals of music files stored in iPod® or USB memory are transmitted from the USB connector to the AV control unit. The AV control unit transmits the sound signals to the woofer and each speaker via BOSE amp. (coupe models)
- Sound signals of music files stored in iPod® or USB memory are transmitted from the USB connector to the AV control unit. The AV control unit transmits the sound signals to each speaker via BOSE amp. (roadster models)
- Video signals and image viewer file signals are transmitted from the USB connector to the AV control unit. The data and files are displayed on the front display unit screen.
- iPod® is recharged when connected to USB connector.
- Only files that meet the following conditions will be played.

	Music file	Video file	Image viewer file
File format	"MP3", "WMA", "AAC", "M4A"	"DivX", "MPEG4 (ASF)"	"JPEG"
File extension	".mp3", ".wma", ".aac", ".m4a"	".divx", ".afs", ".avi"	".jpg", ".jpeg"
Maximum file size	2 GB	2 GB	<ul style="list-style-type: none"><li>• 2 MB</li><li>• Screen size*<sup>1</sup>: (H: 1536 x V: 2048 pixels)</li><li>• The number of directories*<sup>2</sup>: Up to 500</li></ul>

\*1: Images cannot be displayed if the screen size exceeds the upper limit.

\*2: The value of an image file storable in the same directory is up to 1024.

### NOTE:

- iPod® is a trademark of Apple inc., registered in the U.S. and other countries.
- Image signals cannot be received from iPod®.
- Use the enclosed USB harness when connecting iPod® to USB connector.

### DVD PLAY FUNCTION

- DVD is played by inserting DVD into the AV control unit.
- DVD image signals are transmitted to the display unit and DVD sound signals are transmitted to each speaker via BOSE amp.

### MULTI AV SYSTEM : Fail-Safe

INFOID:000000005451313

When the ambient temperature becomes extremely low or extremely high, 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

# SYSTEM

< SYSTEM DESCRIPTION >

[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.

## 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>• Aired 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)
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.

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AV

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

## DIAGNOSIS SYSTEM (AV CONTROL UNIT)

### Description

INFOID:000000005451314

- 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 Function

INFOID:000000005451315

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

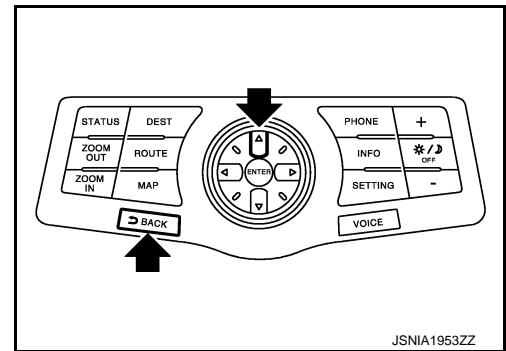
The ON/OFF operation (continuity) of each switch in the multifunction switch and preset switch can be checked.

##### 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.

**NOTE:**

The disk eject switch cannot be checked.



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##### Finishing Self-diagnosis Mode

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

### 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. 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.</li></ul>

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

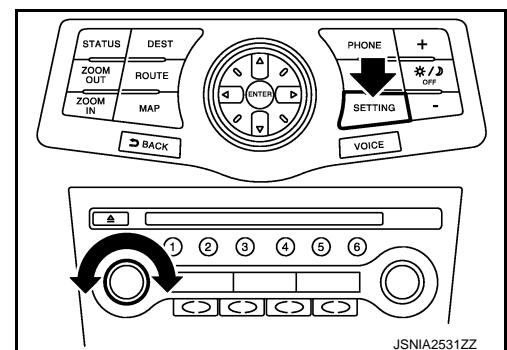
< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

	Mode	Description	
Confirmation/ Adjustment	Display Diagnosis	The following check functions are available: color tone check by color bar display, light and shade check by gray scale display, touch panel calibration and response check, and color tone check by white display.	
	Vehicle Signals	Diagnosis of signals can be performed for vehicle speed, parking brake, lights, ignition, reverse, side view switch and room lamp.	
	Speaker Test	The connection of a speaker can be confirmed by test tone.	
	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.	
	Hands-free Phone	The received volume adjustment of hands-free phone, microphone speaker check, and erase memory can be performed.	
	Camera Cont.	The three functions of "Alter/Confirm Configuration", "Reset Configuration" and "Camera Syst Type" are available.	
	XM	XM Navi Trffic	Change Channel • Any necessary channels required to receive traffic information from the satellite radio system can be set.
		XM NavWeather	
		XM CGS	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.		
Version Information	Version information of the AV control unit is displayed.		

## 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.

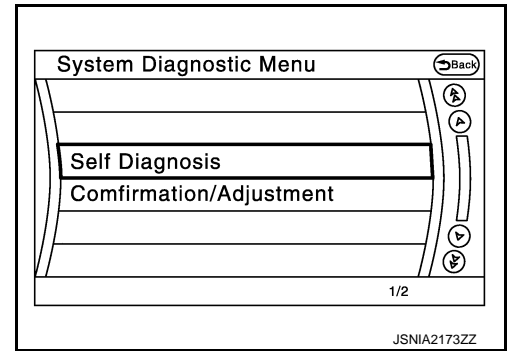


# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[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

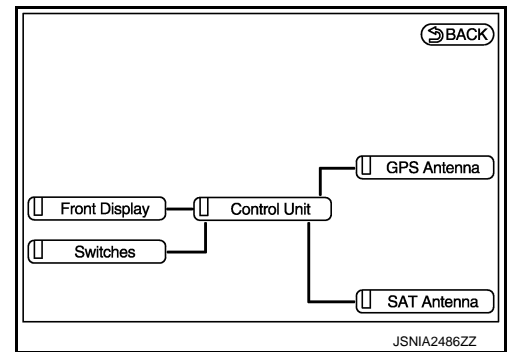
- Start the self-diagnosis function and select "Self Diagnosis".
  - Self-diagnosis subdivision screen is displayed, and the self-diagnosis mode starts.
  - The bar graph visible on the center of the self-diagnosis subdivision screen indicates progress of the trouble diagnosis.
- Diagnosis results are 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	Connection line
Normal	Green	Green
Connection malfunction	Gray	Yellow
Unit malfunction <sup>Note</sup>	Red	Green

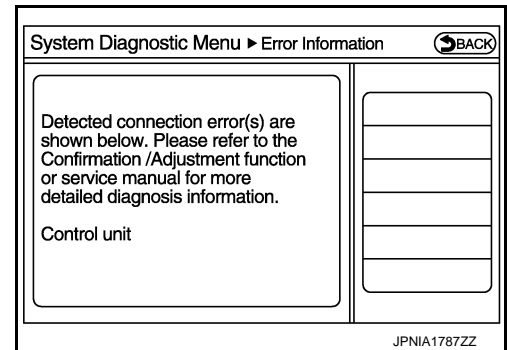
### NOTE:

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-333, "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.

## SELF-DIAGNOSIS RESULTS

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

Only Unit Part Is Displayed In Red.

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

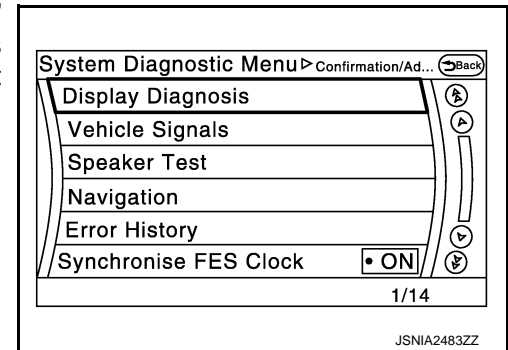
Screen switch	Description	Possible malfunction location / Action to take
Control unit	Malfunction is detected in AV control unit power supply and ground circuits.	Check AV control unit power supply and ground circuits. When detecting no malfunction in those components, replace AV control unit.

A Connecting Cable Between Units Is Displayed In Yellow.

Area with yellow connection lines	Description	Possible malfunction location / Action to take
Control unit ↔ Front Display	Malfunction is detected in serial communication circuits between AV control unit and front display unit.	Serial communication circuits between AV control unit and front display unit.
Control unit ↔ GPS Antenna	GPS antenna connection malfunctions detected.	GPS antenna
Control unit ↔ SAT Antenna	Satellite radio antenna connection malfunctions detected.	Satellite radio antenna

## 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.



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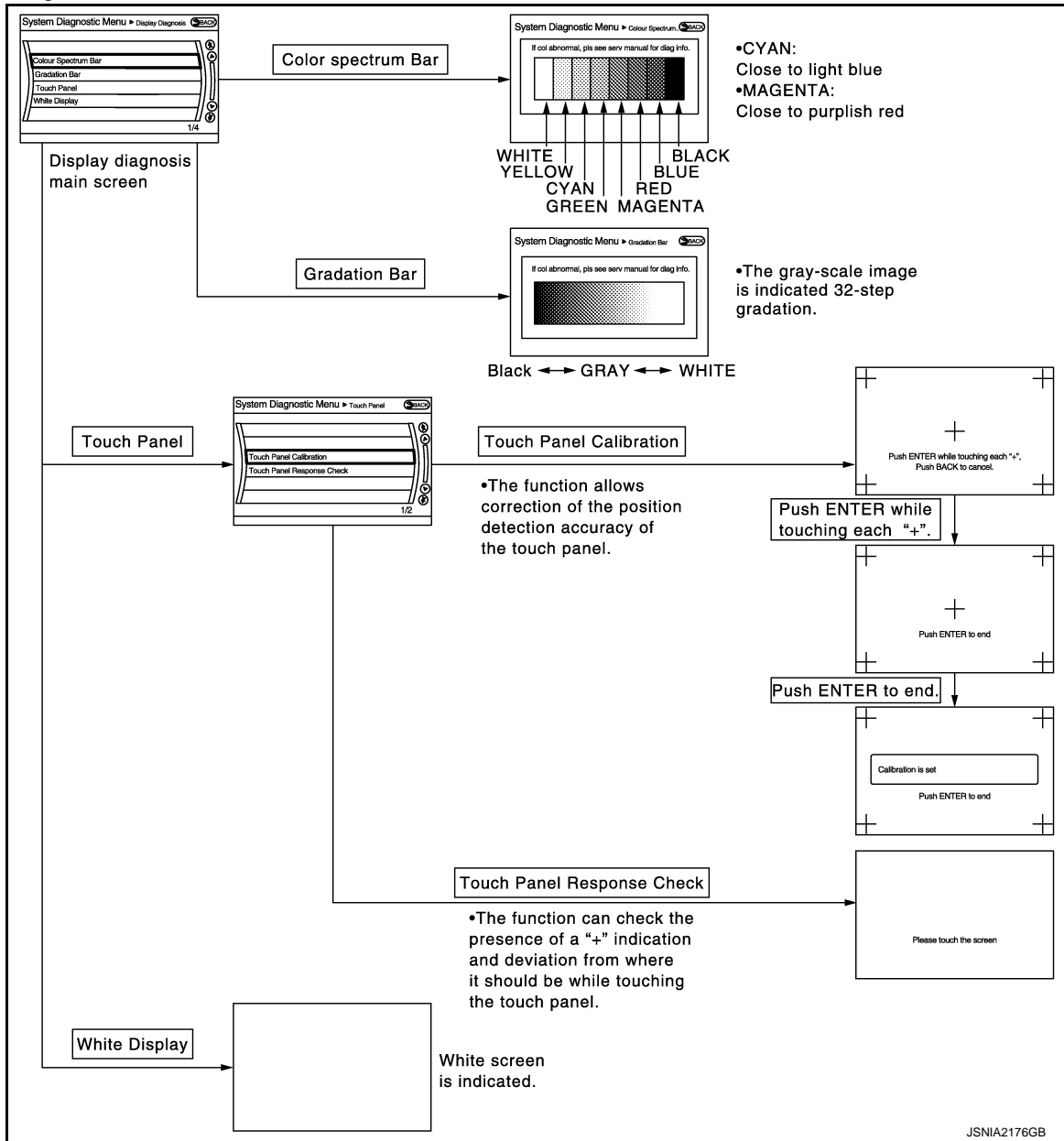
AV

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

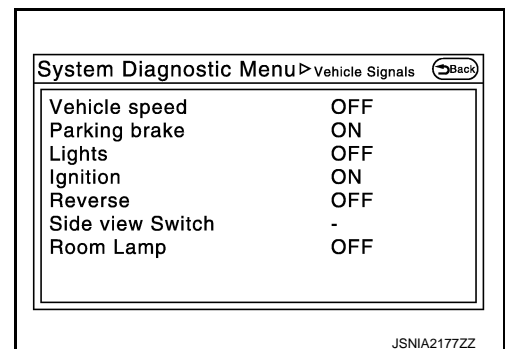
[BOSE AUDIO WITH NAVIGATION]

## Display Diagnosis



## 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)

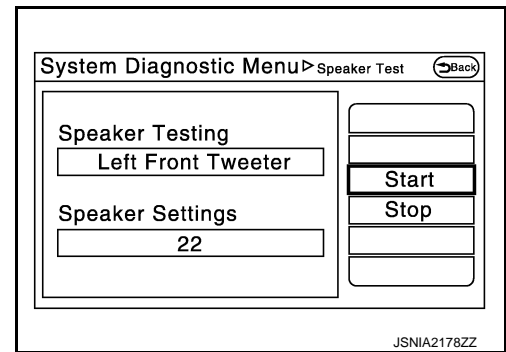
< SYSTEM DESCRIPTION >

[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	
SIDE VIEW SW	—	—	This item is displayed, but cannot be monitored.
ROOM LAMP	OFF	—	This item is displayed, but not used.

## Speaker Test

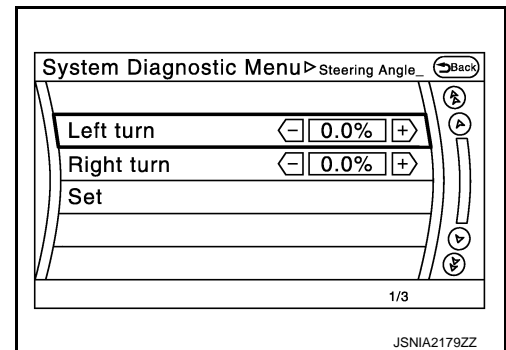
Select "SPEAKER DIAGNOSIS" to display the Speaker Diagnosis screen. Press "Start" to generate a test tone in a speaker. Press "Start" to generate a test tone in the next speaker. Press "Stop" to stop the test tones.



## Navigation

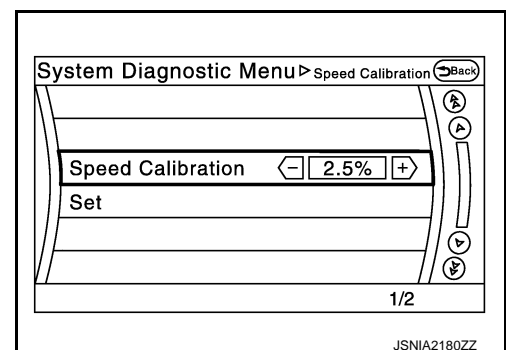
### STEERING ANGLE ADJUSTMENT

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)

[BOSE AUDIO WITH NAVIGATION]

## < SYSTEM DESCRIPTION >

### 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 switch 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.

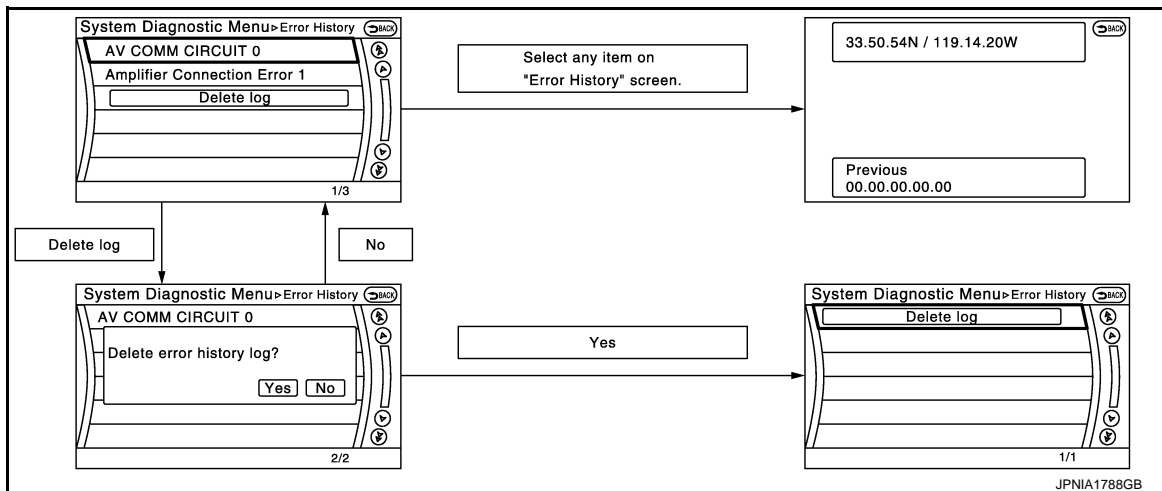
### Count up method A

- The counter resets to 0 if an error occurs when ignition switch is turned ON. The counter increases by 1 if the condition is normal at a next ignition 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 ignition switch is ON. The counter will not decrease even if the condition is normal at the next ignition 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)
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 WITH NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take	A B C D E F G H I J K L M AV O P	
CAN COMM CIRCUIT	CAN communication malfunction is detected.	Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results. Refer to <a href="#">AV-231, "CONSULT - III Function (MULTI AV)"</a> .		
CONTROL UNIT (CAN)	CAN initial diagnosis malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly.		
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				
Connection of G Sensor				
CAN Controller Memory Error				
Bluetooth Module Connection Error				
Sub CPU Connection Error				
iPod authentication chip error				
Audio connection error				
DSP Connection Error		AV control unit malfunction is detected.	<ul style="list-style-type: none"> <li>If a disc can be played, then there is a possibility of the detection of a temporary malfunction.</li> <li>Replace the AV control unit if the malfunction occurs constantly.</li> </ul>	
DSP Communication Error				
HDD Connection Error	AV control unit malfunction is detected.	<ul style="list-style-type: none"> <li>If the music box function has no malfunctions, then there is a possibility of the detection of a temporary malfunction.</li> <li>Replace the AV control unit if the malfunction occurs constantly.</li> </ul>		
HDD Read Error				
HDD Write Error				
HDD Communication Error				
HDD Access Error				
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. Replace the AV control unit if the malfunction occurs constantly.		
GPS ROM Error				
GPS RAM Error				
GPS RTC Error				
Unfinished configuration	The writing of configuration data is incomplete.	Write configuration data with CONSULT-III.		
USB Controller Communication Error	USB connection malfunction is detected.	Check that the connection to the USB connector is normal.		
DVD Mechanism Communication Error	AV control unit malfunction is detected.	<ul style="list-style-type: none"> <li>If DVD can be played, then there is a possibility of the detection of a temporary malfunction.</li> <li>Replace the AV control unit if the malfunction occurs constantly.</li> </ul>		
Front Display Connection Error	When either one of the following items is detected: <ul style="list-style-type: none"> <li>front 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> </ul>	<ul style="list-style-type: none"> <li>Front display unit power supply and ground circuits.</li> <li>Communication circuits between AV control unit and front display unit.</li> </ul>		
GPS Antenna Error	GPS antenna connection malfunction is detected.	Check the connection of the GPS antenna connector.		
XM Antenna Connection Error	Satellite radio antenna connection malfunction is detected.	<ul style="list-style-type: none"> <li>Satellite radio antenna feeder.</li> <li>Satellite radio antenna.</li> </ul>		

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

## < SYSTEM DESCRIPTION >

## [BOSE AUDIO WITH NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
USB electric current Error	Detection of over current in USB connector.	Check USB harness between the AV control unit and USB connector.
AM/FM antenna amp	Radio antenna amp. ON signal circuit malfunction is detected.	Radio antenna amp. ON signal circuit between AV control unit and radio antenna amp.
Ext_Amp_ON	BOSE amp. ON signal circuit malfunction is detected.	BOSE amp. ON signal circuit between AV control unit and BOSE amp.
<ul style="list-style-type: none"> <li>AV COMM CIRCUIT</li> <li>Switches Connection Error</li> </ul>	When either one of the following items are detected: <ul style="list-style-type: none"> <li>multifunction switch power supply and ground circuits are malfunctioning.</li> <li>AV communication circuits between AV control unit and multifunction switch are malfunctioning.</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>

### 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.

Items	Display (Current)	Malfunction counter (Past)
Tx(HVAC)	OK / ???	OK / 0 - 39
Rx(ECM)	OK / ???	OK / 0 - 39
Rx(Cluster)	OK / ???	OK / 0 - 39
Rx(HVAC)	OK / ???	OK / 0 - 39
Rx(USM)	OK / ???	OK / 0 - 39
Rx(STRG)	OK / ???	OK / 0 - 39
Rx(RCU)	OK / ???	OK / 0 - 39

#### NOTE:

"???" indicates UNKWN

### AV COMM Diagnosis

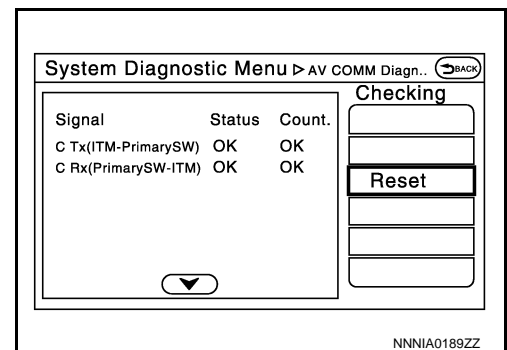
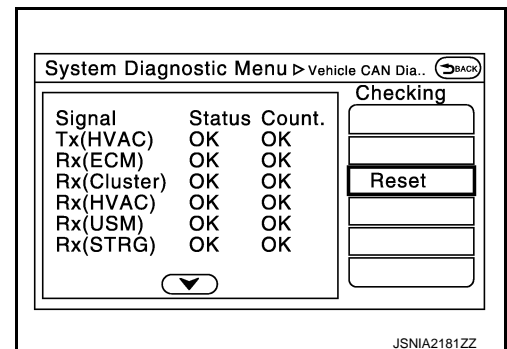
- Displays the communication status between AV control unit (master unit) and each unit.
- The error counter displays "OK" if any malfunction was not detected in the past and displays "0" if a malfunction is detected. It increases by 1 if the condition is normal at the next ignition switch ON cycle. 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 / ???	OK / 0 - 39
C Rx(PrimarySW-ITM)	OK / ???	OK / 0 - 39

#### NOTE:

"???" indicates UNKWN

### Hands-Free Phone

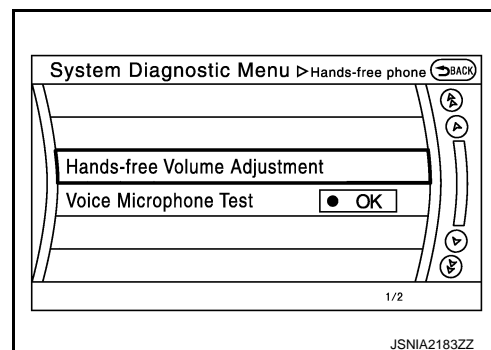


# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

## < SYSTEM DESCRIPTION >

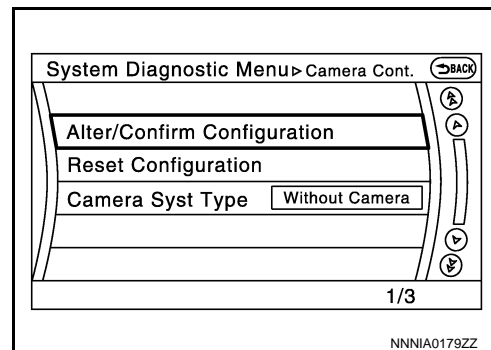
## [BOSE AUDIO WITH NAVIGATION]

The hands-free phone reception volume adjustment and microphone and speaker test functions are also available.



### Camera Cont.

The three functions of “Alter/Confirm Configuration”, “Reset Configuration” and “Camera Syst Type” are available.



### Alter/Confirm Configuration

- Configuration stored in the AV control unit can be checked and modified.

#### Configuration list

Setting item	Setting	Setting item	Setting
Predi. Course Lines	Without	Wheelbase	0.0000000
Rear Coeff. K	0.0000000	Total Length	0.0000000
Rear Coeff. F	0.0000000	Steering Gear Ratio	0.0000000
Rear Coeff. P1	0.0000000	Side Coeff. K	0.0000000
Rear Coeff. P2	0.0000000	Side Coeff. F	0.0000000
Rear Coeff. C1	0.0000000	Side Coeff. P1	0.0000000
Rear Coeff. C2	0.0000000	Side Coeff. P2	0.0000000
Rear Coeff. D1	0.0000000	Side Coeff. C1	0.0000000
Rear Coeff. D2	0.0000000	Side Coeff. C2	0.0000000
Car Width	0.0000000	Side Coeff. D1	0.0000000
Rear Offset	0.0000000	Side Coeff. D2	0.0000000
Rear Height	0.0000000	Side Offset	0.0000000
Rear L/R Angle	0.0000000	Overall Height	0.0000000
Rear Up/Dn Angle	0.0000000	Side L/R Angle	0.0000000
Rear Roll Angle	0.0000000	Side Up/Dn Angle	0.0000000
Bumper Rear Dist.	0.0000000	Side Roll Angle	0.0000000
Bumper Rear Ax Dist	0.0000000	Side Front End Dist	0.0000000
Steer. Max Angle	0.0000000	Total Width	0.0000000
Min. Turning Red.	0.0000000	—	—

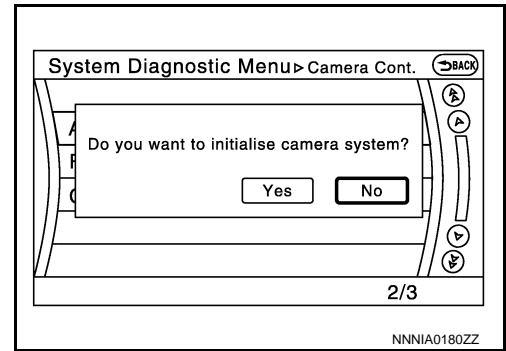
### Reset Configuration

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

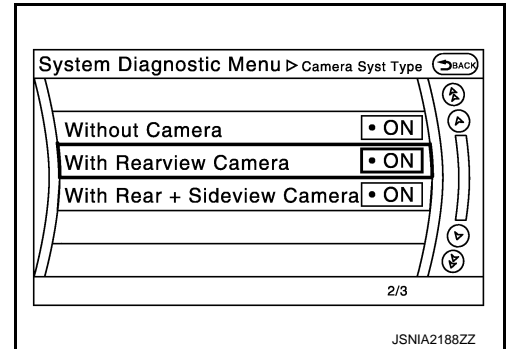
[BOSE AUDIO WITH NAVIGATION]

- Configuration stored in the AV control unit can be initialized.



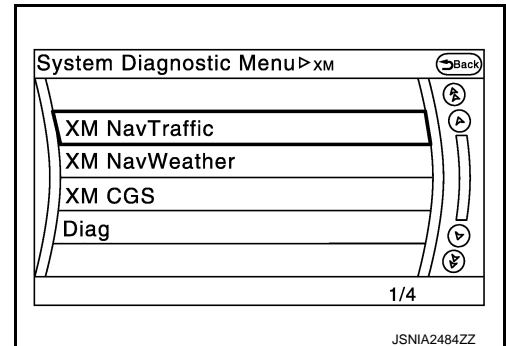
## Camera Syst Type

- Type of camera system is selectable.



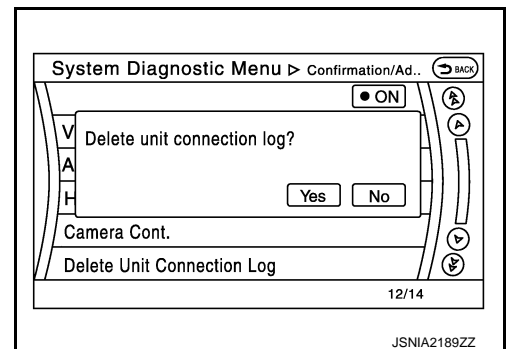
## XM

- 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)

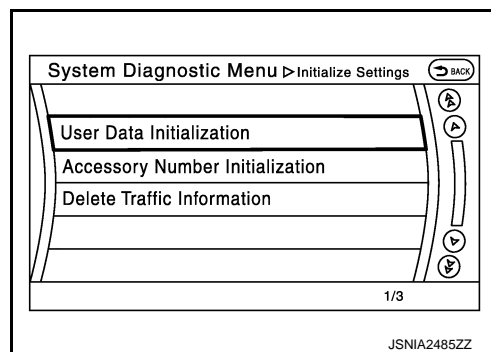
[BOSE AUDIO WITH NAVIGATION]

< SYSTEM DESCRIPTION >

“User Data Initialization” and “Accessory Number Initialization” are possible.

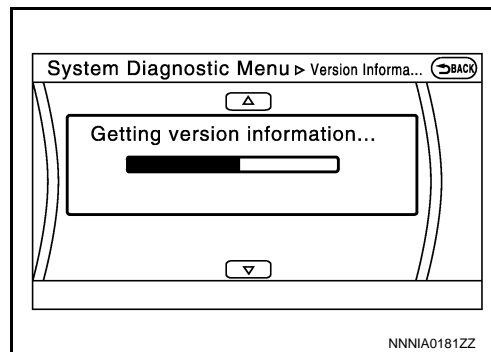
**CAUTION:**

- Never perform Accessory Number Initialization except when configuration is unsuccessful.
- Accessory Number Initialization requires configuration. For details, refer to [AV-270, "CONFIGURATION \(AV CONTROL UNIT\) : Description"](#).



Version Information

Version information of the AV control unit is displayed.



## CONSULT - III Function (MULTI AV)

INFOID:000000005451316

### APPLICATION ITEMS

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.
Configuration	<ul style="list-style-type: none"> <li>• Read and save the vehicle specification.</li> <li>• Write the vehicle specification when replacing AV control unit.</li> </ul>

### 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 Results Display Item

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

**[BOSE AUDIO WITH NAVIGATION]**

< SYSTEM DESCRIPTION >

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. Refer to <a href="#">AV-272, "Diagnosis Procedure"</a>
CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly.
CONTROL UNIT (AV) [U1310]	AV communication circuit initial diagnosis malfunction is detected.	
Cont Unit [U1200]	AV control unit malfunction is detected.	
GYRO NO CONN [U1201]		
G-SENSOR NO CONN [U1202]		
CAN CONT [U1216]		
BLUETOOTH MODULE [U1217]		
SUB CPU CONN [U1228]		
iPod CERTIFICATION [U1229]		
Built-in AUDIO CONN [U122E]		
HDD CONN [U1218]	AV control unit malfunction is detected.	<ul style="list-style-type: none"> <li>• If the music box function has no malfunctions, then there is a possibility of the detection of a temporary malfunction.</li> <li>• Replace the AV control unit if the malfunction occurs constantly.</li> </ul>
HDD READ [U1219]		
HDD WRITE [U121A]		
HDD COMM [U121B]		
HDD ACCESS [U121C]		
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. Replace the AV control unit if the malfunction occurs constantly.
GPS ROM [U1205]		
GPS RAM [U1206]		
GPS RTC [U1207]		
USB CONTROLLER [U1225]	USB connection malfunction is detected.	Check that the connection to the USB connector is normal.
DSP CONN [U121D]	AV control unit malfunction is detected.	<ul style="list-style-type: none"> <li>• If a disc can be played, then there is a possibility of the detection of a temporary malfunction.</li> <li>• Replace the AV control unit if the malfunction occurs constantly.</li> </ul>
DSP COMM [U121E]		
DVD COMM [U1227]	AV control unit malfunction is detected.	<ul style="list-style-type: none"> <li>• If DVD can be played, then there is a possibility of the detection of a temporary malfunction.</li> <li>• Replace the AV control unit if the malfunction occurs constantly.</li> </ul>
CONFIG UNFINISH [U122A]	The writing of configuration data is incomplete.	Write configuration data with CONSULT-III.
FRONT DISP CONN [U1243]	When either one of the following items are detected: <ul style="list-style-type: none"> <li>• front display unit power supply and ground circuits malfunction is detected.</li> <li>• communication circuits between AV control unit and front display unit.</li> </ul>	<ul style="list-style-type: none"> <li>• Front display unit power supply and ground circuits.</li> <li>• Communication circuits between AV control unit and AV front display unit.</li> </ul>
GPS ANTENNA CONN [U1244]	GPS antenna connection malfunction is detected.	Check the connection of the GPS antenna connector.
XM ANTENNA CONN [U1258]	Satellite radio antenna connection malfunction is detected.	<ul style="list-style-type: none"> <li>• Satellite radio antenna feeder.</li> <li>• Satellite radio antenna.</li> </ul>
USB OVERCURRENT [U1263]	Detection of over current in USB connector.	Check USB harness between the AV control unit and USB connector.



# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
ANTENNA AMP TERMINAL [U1264]	Radio antenna amp. ON signal circuit malfunction is detected.	Radio antenna amp. ON signal circuit between AV control unit and radio antenna amp.
AMP ON TERMINAL [U1265]	BOSE amp. ON signal circuit malfunction is detected.	BOSE amp. ON signal circuit between AV control unit and BOSE amp.
<ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• SWITCH CONN [U1240]</li> </ul>	When either one of the following items are detected: <ul style="list-style-type: none"> <li>• multifunction switch power supply and ground circuits are malfunctioning.</li> <li>• AV communication circuits between AV control unit and multifunction switch are malfunctioning.</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>

## 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	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	
SIDE VIEW SW	Off	This item is displayed, but cannot be monitored.	—
ROOM LAMP	Off	This item is displayed, but not used.	—

### 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	
SIDE VIEW SW	
ROOM LAMP	

## CONFIGURATION

## DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

Configuration has three functions as follows.

Function	Description
READ CONFIGURATION	<ul style="list-style-type: none"><li>• Reads the vehicle configuration of current AV control unit.</li><li>• Saves the read vehicle configuration.</li></ul>
WRITE CONFIGURATION-Manual selection	Writes the vehicle configuration with manual selection.
WRITE CONFIGURATION-Config file	Writes the vehicle configuration with saved data.

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## ECU DIAGNOSIS INFORMATION

### AV CONTROL UNIT

Reference Value

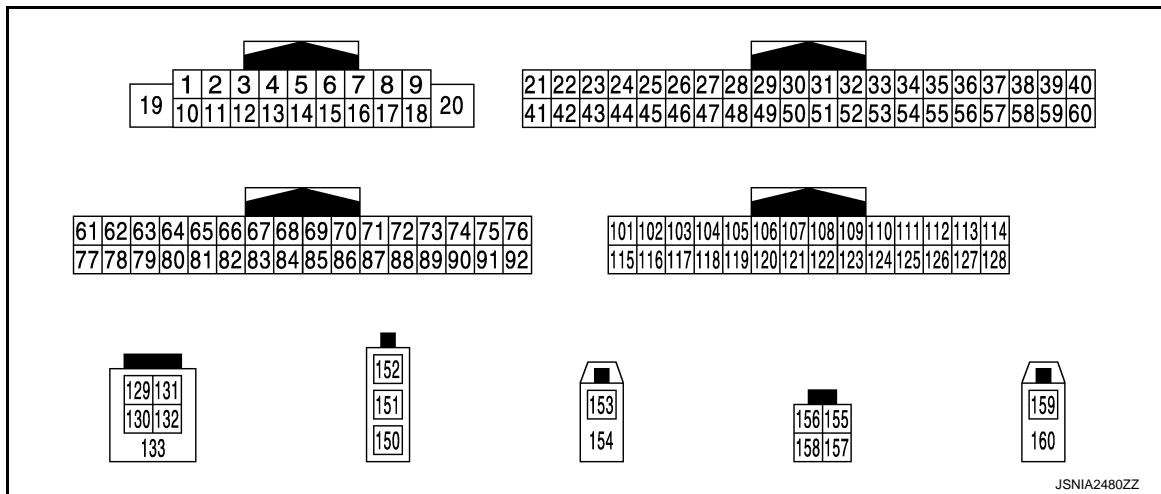
INFOID:000000005451317

### 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
SIDE VIEW SW	Ignition switch ON	This item is displayed, but cannot be monitored.	Off
ROOM LAMP	Ignition switch ON	This item is displayed, but not used.	Off

### TERMINAL LAYOUT

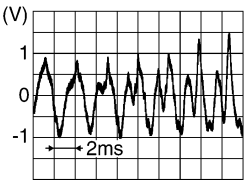
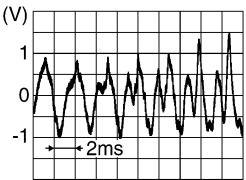

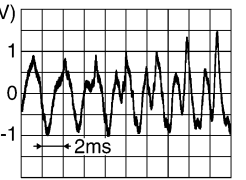
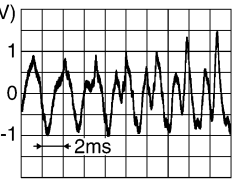


### PHYSICAL VALUES

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >



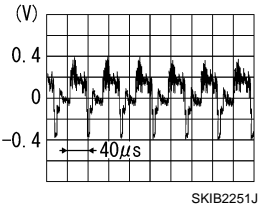
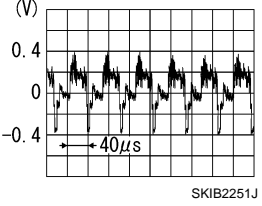
[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (V)	Ground	BOSE amp. ON signal	Output	Ignition switch ON	—	12.0 V
2 (LG) <sup>*1</sup> (P) <sup>*2</sup>	3 (V) <sup>*1</sup> (L) <sup>*2</sup>	Sound signal front LH	Output	Ignition switch ON	Sound output	 <small>SKIB3609E</small>
4 (L) <sup>*1</sup> (V) <sup>*2</sup>	5 (R) <sup>*1</sup> (SB) <sup>*2</sup>	Sound signal rear LH	Output	Ignition switch ON	Sound output	 <small>SKIB3609E</small>
6 (P)	15 (B)	Steering switch signal A	Input	Ignition switch ON	Keep pressing SOURCE switch.	0 V
					Keep pressing MENU UP switch.	1.0 V
					Keep pressing MENU DOWN switch.	2.0 V
					Keep pressing  switch	3.0 V
					Keep pressing ENTER switch.	4.0 V
					Except for above.	5.0 V
7 (L)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
10	—	Shield	—	—	—	—
11 (L) <sup>*1</sup> (R) <sup>*2</sup>	12 (P) <sup>*1</sup> (G) <sup>*2</sup>	Sound signal front RH	Output	Ignition switch ON	Sound output	 <small>SKIB3609E</small>
13 (R) <sup>*1</sup> (BR) <sup>*2</sup>	14 (G) <sup>*1</sup> (Y) <sup>*2</sup>	Sound signal rear RH	Output	Ignition switch ON	Sound output	 <small>SKIB3609E</small>

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

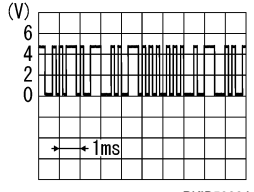
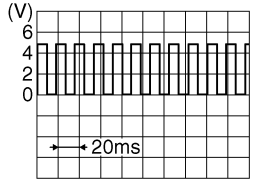
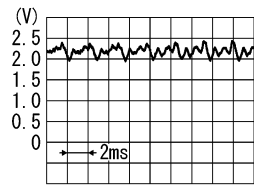
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
16 (L)	15 (B)	Steering switch signal B	Input	Ignition switch ON	Keep pressing VOL DOWN switch.	0 V
					Keep pressing VOL UP switch.	1.0 V
					Keep pressing  switch.	2.0 V
					Keep pressing  switch.	3.0 V
					Except for above.	5.0 V
19 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
20 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
26 (LG) <sup>*1</sup> (L) <sup>*2</sup>	Ground	AUX image signal	Input	Ignition switch ON	At AUX image is displayed.	
29 (SB)	Ground	Disk eject signal	Input	Ignition switch ON	Pressing the eject switch.	0 V
					Except for above.	5.0 V
46 (V) <sup>*1</sup> (R) <sup>*2</sup>	Ground	AUX image signal ground	—	Ignition switch ON	—	0 V
47	—	Shield	—	—	—	—
49 (BR)	Ground	Switch ground	—	Ignition switch ON	—	0 V
65 (V)	Ground	Parking brake signal	Input	Ignition switch ON	Parking brake is ON.	5.0 V
					Parking brake is OFF.	0 V
67 (B)	Ground	Composite image ground	—	Ignition switch ON	—	0 V
68 (L)	Ground	Composite image signal	Output	Ignition switch ON	At DVD image is displayed.	
72 (R)	Ground	Microphone VCC	Output	Ignition switch ON	—	5.0 V

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# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

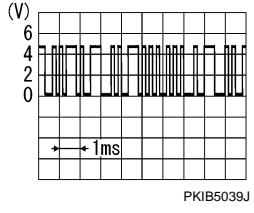
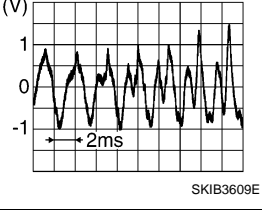
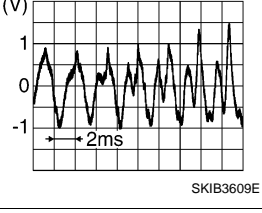
[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
73 (G)*1 (R)*2	Ground	Communication signal (CONT→DISP)	Output	Ignition switch ON	When adjusting display brightness.	 <p style="text-align: right; font-size: small;">PKIB5039J</p>
74 (P)*1 (L)*2	—	CAN-L	Input/ Output	—	—	—
75 (Y)	—	AV communication signal (L)	Input/ Output	—	—	—
76 (Y)	—	AV communication signal (L)	Input/ Output	—	—	—
79 (R)	Ground	Illumination signal	Input	Ignition switch OFF	Lighting switch is OFF.	0 V
					Lighting switch is ON.	12.0 V
80 (G)	Ground	Ignition signal	Input	Ignition switch ON	—	Battery voltage
81 (O)*1 (G)*2	Ground	Reverse signal	Input	Ignition switch ON	R position	12.0 V
					Other than R position	0 V
82 (Y)	Ground	Vehicle speed signal (8- pulse)	Input	Ignition switch ON	When vehicle speed is ap- prox. 40 km/h (25 MPH)	<p><b>NOTE:</b> Maximum voltage may be 12.0 V due to specifications (connected units).</p>  <p style="text-align: right; font-size: small;">SKIA6649J</p>
83	—	Shield	—	—	—	—
84 (Y)	—	—	—	—	—	—
87 (G)	71	Microphone signal	Input	Ignition switch ON	Give a voice	 <p style="text-align: right; font-size: small;">PKIB5037J</p>
88	—	Shield	—	—	—	—

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
89 (R) <sup>*1</sup> (G) <sup>*2</sup>	Ground	Communication signal (DISP→CONT)	Input	Ignition switch ON	When adjusting display brightness.	
90 (L) <sup>*1</sup> (P) <sup>*2</sup>	—	CAN-H	Input/ Output	—	—	—
91 (LG)	—	AV communication signal (H)	Input/ Output	—	—	—
92 (LG)	—	AV communication signal (H)	Input/ Output	—	—	—
104 (Y) <sup>*1</sup> (W) <sup>*2</sup>	119 (L) <sup>*1</sup> (B) <sup>*2</sup>	AUX sound signal LH	Input	Ignition switch ON	When AUX mode is select- ed.	
117	—	Shield	—	—	—	—
118 (G) <sup>*1</sup> (R) <sup>*2</sup>	119 (L) <sup>*1</sup> (B) <sup>*2</sup>	AUX sound signal RH	Input	Ignition switch ON	When AUX mode is select- ed.	
129 (O)	—	USB ground	—	—	—	—
130 (L)	—	USB D-	—	—	—	—
131 (BR)	—	V BUS signal	—	—	—	—
132 (R)	—	USB D+	—	—	—	—
133	—	Shield	—	—	—	—
150	—	FM sub	Input	—	—	—
151	—	AM-FM main	Input	—	—	—
152	Ground	Antenna amp. ON signal	Input	Ignition switch ON	—	12.0 V
153	Ground	GPS antenna signal	Input	Ignition switch ON	Not connected GPS anten- na connector.	5.0 V
154	—	Shield	—	—	—	—

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AV

# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
157	Ground	RGB digital image signal (-)	Output	Ignition switch ON	Not connected connector.	1.3 V
158	Ground	RGB digital image signal (+)	Output	Ignition switch ON	Not connected connector.	1.3 V
159	—	Shield	—	—	—	—
160	Ground	Satellite radio antenna signal	Input	Ignition switch ON	Not connected to satellite radio antenna connector.	5.0 V

\*1: Coupe models

\*2: Roadster models

## Fail-Safe

INFOID:000000005451318

When the ambient temperature becomes extremely low or extremely high, AV control unit displays the message and limits the AV control unit function.

### FAIL-SAFE CONDITIONS

When the ambient temperature is  $-20^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$ ) or lower, or when it is  $70^{\circ}\text{C}$  ( $158^{\circ}\text{F}$ ) or higher

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.

## 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)
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.



# AV CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

## DTC Index

INFOID:000000005451319

### SELF-DIAGNOSIS RESULTS DISPLAY ITEM

DTC	Display item	Refer to
U1000	CAN COMM CIRCUIT [U1000]	<a href="#">AV-272, "Diagnosis Procedure"</a>
U1010	CONTROL UNIT (CAN) [1010]	<a href="#">AV-273, "DTC Logic"</a>
U1200	Cont Unit [U1200]	<a href="#">AV-274, "DTC Logic"</a>
U1201	GYRO NO CONN [U1201]	<a href="#">AV-275, "DTC Logic"</a>
U1202	G-SENSOR NO CONN [U1202]	<a href="#">AV-276, "DTC Logic"</a>
U1204	GPS COMM [U1204]	<a href="#">AV-277, "Diagnosis Procedure"</a>
U1205	GPS ROM [U1205]	<a href="#">AV-278, "Diagnosis Procedure"</a>
U1206	GPS RAM [U1206]	<a href="#">AV-279, "Diagnosis Procedure"</a>
U1207	GPS RTC [U1207]	<a href="#">AV-280, "Diagnosis Procedure"</a>
U1216	CAN CONT [U1216]	<a href="#">AV-281, "DTC Logic"</a>
U1217	BLUETOOTH MODULE [U1217]	<a href="#">AV-282, "DTC Logic"</a>
U1218	HDD CONN [U1218]	<a href="#">AV-283, "Diagnosis Procedure"</a>
U1219	HDD READ [U1219]	<a href="#">AV-284, "Diagnosis Procedure"</a>
U121A	HDD WRITE [U121A]	<a href="#">AV-285, "Diagnosis Procedure"</a>
U121B	HDD COMM [U121B]	<a href="#">AV-286, "Diagnosis Procedure"</a>
U121C	HDD ACCESS [U121C]	<a href="#">AV-287, "Diagnosis Procedure"</a>
U121D	DSP CONN [U121D]	<a href="#">AV-288, "Diagnosis Procedure"</a>
U121E	DSP COMM [U121E]	<a href="#">AV-289, "Diagnosis Procedure"</a>
U1225	USB CONTROLLER [U1225]	<a href="#">AV-290, "DTC Logic"</a>
U1227	DVD COMM [U1227]	<a href="#">AV-291, "Diagnosis Procedure"</a>
U1228	SUB CPU CONN [U1228]	<a href="#">AV-292, "DTC Logic"</a>
U1229	iPod CERTIFICATION [U1229]	<a href="#">AV-293, "DTC Logic"</a>
U122A	CONFIG UNFINISH [U122A]	<a href="#">AV-294, "Diagnosis Procedure"</a>
U122E	Built-in AUDIO CONN [U122E]	<a href="#">AV-295, "DTC Logic"</a>
U1232	ST ANGLE SEN CALIB [1232]	<a href="#">AV-296, "Diagnosis Procedure"</a>
U1243	FRONT DISP CONN [U1243]	<a href="#">AV-297, "Diagnosis Procedure"</a>
U1244	GPS ANTENNA CONN [U1244]	<a href="#">AV-299, "Diagnosis Procedure"</a>
U1258	XM ANTENNA CONN [U1258]	<a href="#">AV-300, "DTC Logic"</a>
U1263	USB OVERCURRENT [U1263]	<a href="#">AV-301, "Diagnosis Procedure"</a>
U1264	ANTENNA AMP TERMINAL [U1264]	<ul style="list-style-type: none"> <li>• <a href="#">AV-302, "COUPE : Diagnosis Procedure"</a> (coupe models)</li> <li>• <a href="#">AV-302, "ROADSTER : Diagnosis Procedure"</a> (roadster models)</li> </ul>
U1265	AMP ON TERMINAL [U1265]	<a href="#">AV-304, "Diagnosis Procedure"</a>
U1310	CONTROL UNIT (AV) [U1310]	<a href="#">AV-306, "DTC Logic"</a>
U1300 U1240	<ul style="list-style-type: none"> <li>• AV COMM CIRCUIT [U1300]</li> <li>• SWITCH CONN [U1240]</li> </ul>	<a href="#">AV-305, "Description"</a>

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# FRONT DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

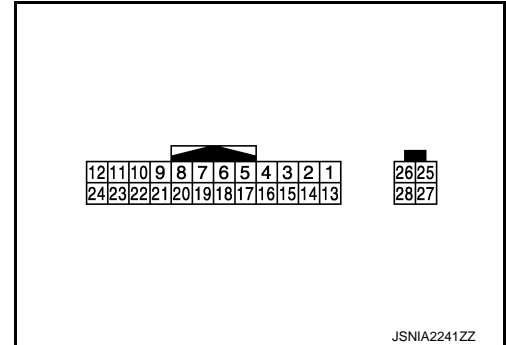
[BOSE AUDIO WITH NAVIGATION]

## FRONT DISPLAY UNIT

Reference Value

INFOID:000000005451320

TERMINAL LAYOUT



## PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
6	—	Shield	—	—	—	—
9 (R) <sup>*1</sup> (G) <sup>*2</sup>	Ground	Communication signal (DISP→CONT)	Output	Ignition switch ON	When adjusting display brightness.	
10 (G) <sup>*1</sup> (R) <sup>*2</sup>	Ground	Communication signal (CONT→DISP)	Input	Ignition switch ON	When adjusting display brightness.	
11 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
12 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
18 (L)	Ground	Composite image signal	Input	Ignition switch ON	At DVD image is displayed.	
19 (P) <sup>*1</sup> (B) <sup>*2</sup>	Ground	Composite image signal ground	—	Ignition switch ON	—	0 V

# FRONT DISPLAY UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
20 (Y)	—	—	—	—	—	—
22	—	Shield	—	—	—	—
23 (V)	Ground	ACC power supply	Input	—	—	—
27	—	RGB digital image signal (-)	Input	—	—	—
28	—	RGB digital image signal (+)	Input	—	—	—

\*1: Coupe models

\*2: Roadster models

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# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

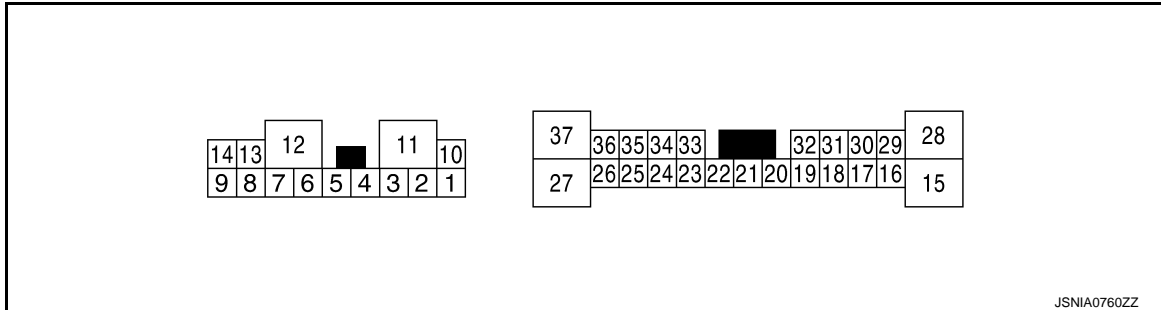
BOSE AMP.

COUPE

COUPE : Reference Value

INFOID:000000005510439

## TERMINAL LAYOUT



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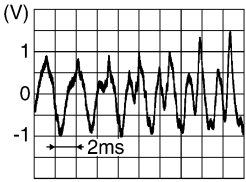
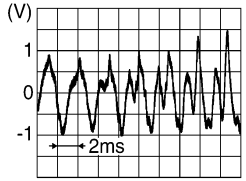
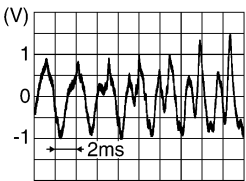
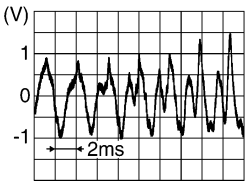
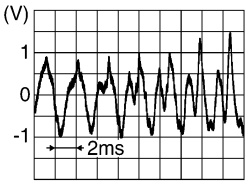
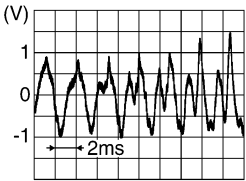
## PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (L)	10 (P)	Sound signal rear speaker LH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>
2 (R)	3 (BR)	Sound signal rear speaker RH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>
4 (L)	5 (V)	Sound signal front door speaker LH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>
6 (LG)	7 (GR)	Sound signal tweeter LH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>

# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

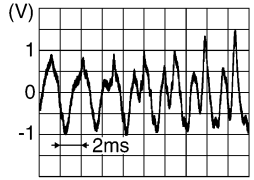
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
8 (BG)	13 (G)	Sound signal front door speaker RH	Output	Ignition switch ON	Voice output	 SKIB3609E
9 (SB)	14 (V)	Sound signal woofer	Output	Ignition switch ON	Voice output	 SKIB3609E
11 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
12 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
18 (P)	32 (L)	Sound signal front LH	Input	Ignition switch ON	Voice output	 SKIB3609E
19 (R)	20 (G)	Sound signal front RH	Input	Ignition switch ON	Voice output	 SKIB3609E
21 (V)	22 (SB)	Sound signal rear LH	Input	Ignition switch ON	Voice output	 SKIB3609E
23 (BR)	33 (Y)	Sound signal rear RH	Input	Ignition switch ON	Voice output	 SKIB3609E

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# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

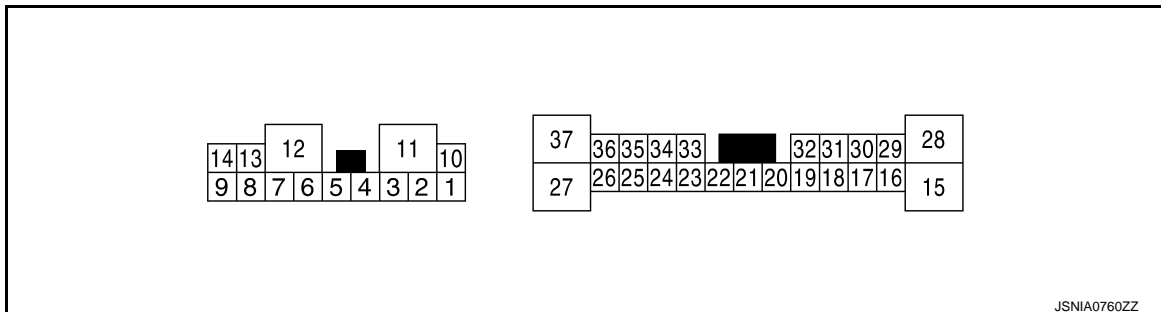
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
25 (GR)	Ground	Woofer amp. ON signal	Output	Ignition switch ACC	—	12.0 V
31 (W)	Ground	BOSE amp. ON signal	Input	Ignition switch ACC	—	12.0 V
37 (B)	27 (W)	Sound signal tweeter RH	Output	Ignition switch ON	Voice output	 SKIB3609E

## ROADSTER

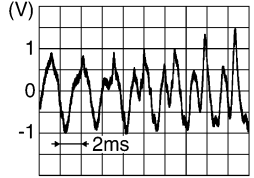
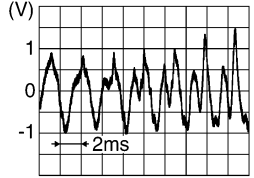
### ROADSTER : Reference Value

INFOID:00000000527708

### TERMINAL LAYOUT



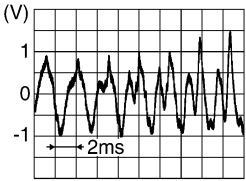
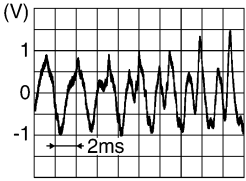
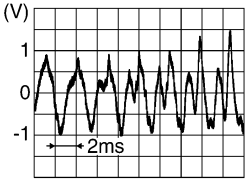
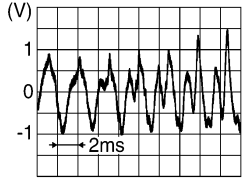
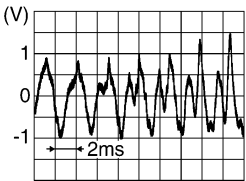
### PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (LG)	10 (Y)	Sound signal rear woofer LH	Output	Ignition switch ON	Voice output	 SKIB3609E
2 (LG)	3 (Y)	Sound signal rear woofer RH	Output	Ignition switch ON	Voice output	 SKIB3609E

# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

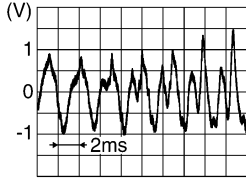
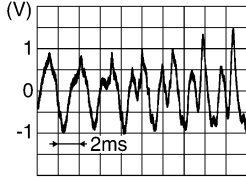
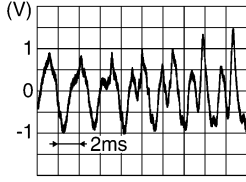
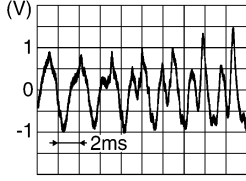
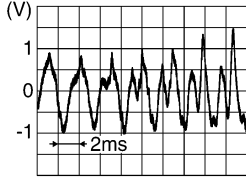
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
4 (L)	5 (V)	Sound signal front door speaker LH	Output	Ignition switch ON	Voice output	 SKIB3609E
6 (LG)	7 (GR)	Sound signal tweeter LH	Output	Ignition switch ON	Voice output	 SKIB3609E
8 (O)	13 (G)	Sound signal front door speaker RH	Output	Ignition switch ON	Voice output	 SKIB3609E
9 (LG)	14 (Y)	Sound signal rear speaker RH	Output	Ignition switch ON	Voice output	 SKIB3609E
11 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
12 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
15 (L)	28 (P)	Sound signal rear speaker LH	Output	Ignition switch ON	Voice output	 SKIB3609E
17 (R)	Ground	Roof status signal (AUDIO)	Input	Ignition switch ON	Retractable soft top fully open	Battery voltage
					Retractable soft top other than above	0 V

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# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
18 (P)	32 (L)	Sound signal front LH	Input	Ignition switch ON	Voice output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
19 (R)	20 (G)	Sound signal front RH	Input	Ignition switch ON	Voice output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
21 (V)	22 (SB)	Sound signal rear LH	Input	Ignition switch ON	Voice output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
23 (BR)	33 (Y)	Sound signal rear RH	Input	Ignition switch ON	Voice output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
31 (W)	Ground	BOSE amp. ON signal	Input	Ignition switch ACC	—	12.0 V
37 (B)	27 (W)	Sound signal tweeter RH	Output	Ignition switch ON	Voice output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>

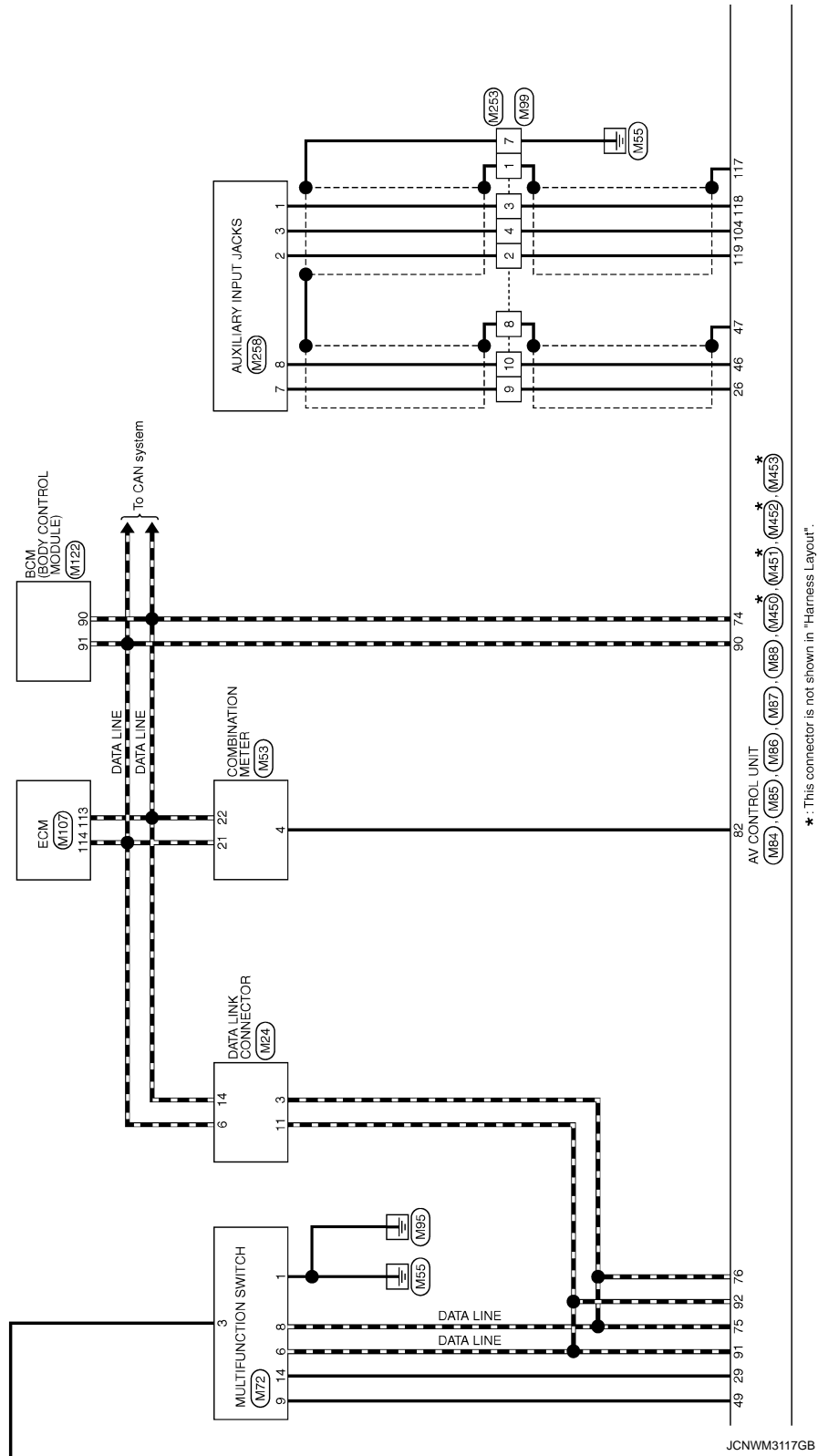




# BOSE AUDIO WITH NAVIGATION SYSTEM

< WIRING DIAGRAM >

[BOSE AUDIO WITH NAVIGATION]

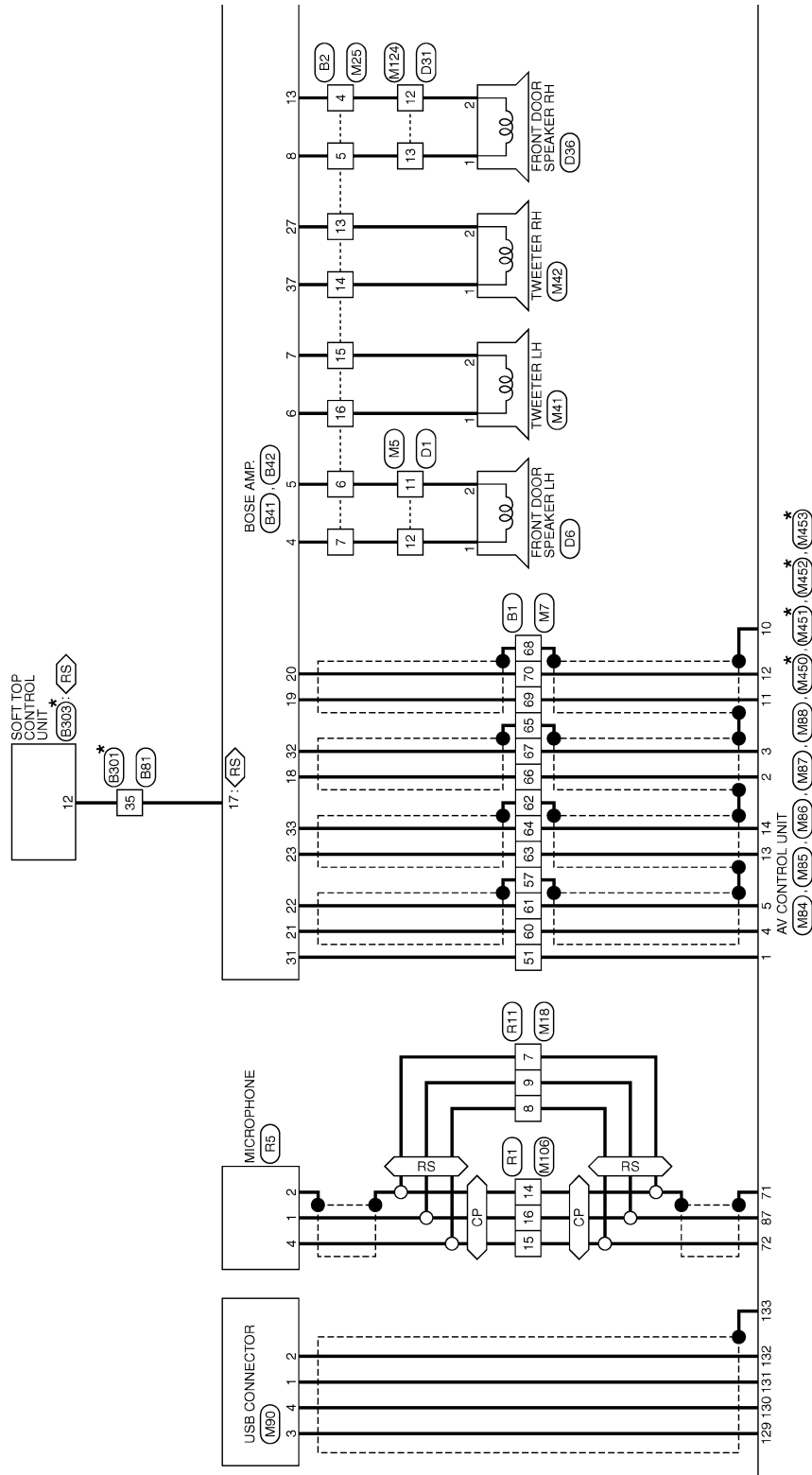


# BOSE AUDIO WITH NAVIGATION SYSTEM

## [BOSE AUDIO WITH NAVIGATION]

< WIRING DIAGRAM >

CP : Coupe models  
RS : Roadster models



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

JCNWM3118GB

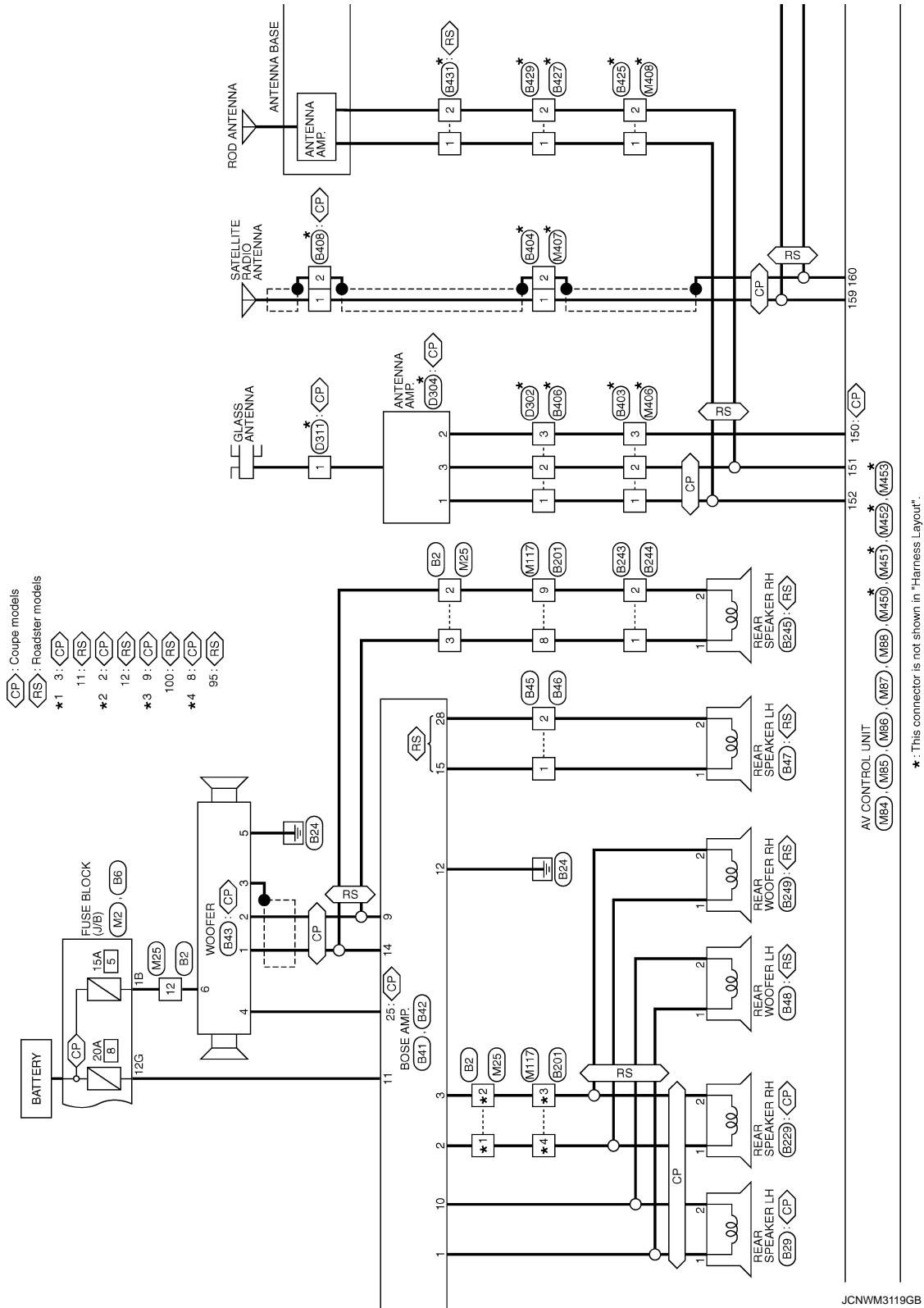
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# BOSE AUDIO WITH NAVIGATION SYSTEM

[BOSE AUDIO WITH NAVIGATION]

< WIRING DIAGRAM >



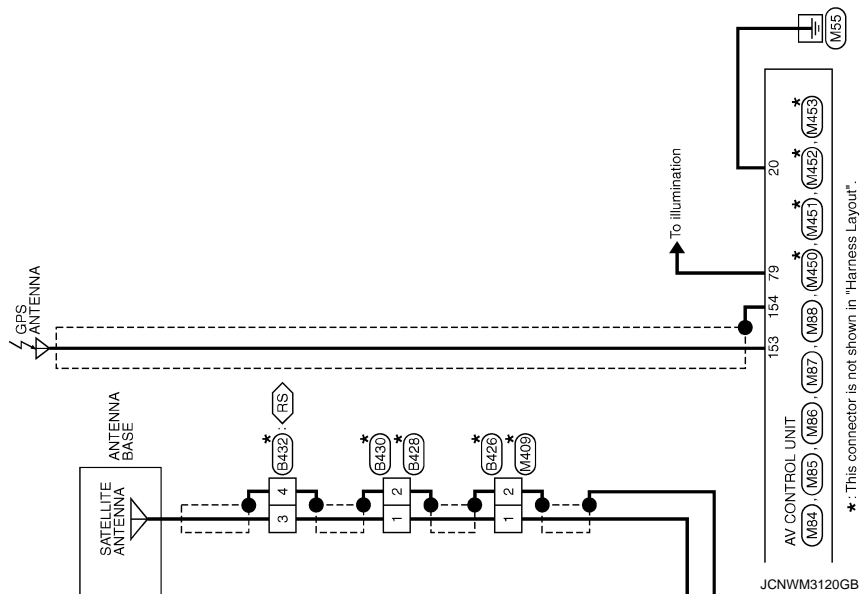
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# BOSE AUDIO WITH NAVIGATION SYSTEM

< WIRING DIAGRAM >

[BOSE AUDIO WITH NAVIGATION]

RS Roadster models



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# BOSE AUDIO WITH NAVIGATION SYSTEM

[BOSE AUDIO WITH NAVIGATION]

< WIRING DIAGRAM >

## BOSE AUDIO WITH NAVIGATION SYSTEM

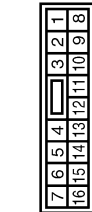
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	THEORY-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	BG	- [Coupe models] - [Roadster models]
3	O	-
4	W	-
5	V	-
6	V	-
7	LG	-
8	GR	-
9	SB	-
10	Y	-
11	Y	-
12	W	-
13	BR	-
14	LG	-
15	B	-
16	V	-
20	SB	-
21	G	-
22	GR	-
23	V	-
24	O	-
25	L	-
26	P	-
31	W	-
32	B	-
33	P	- [Coupe models] - [Roadster models]
34	W	-
35	B	-
40	Y	-
41	L	-
42	GR	-
43	BR	-
44	R	-
45	BG	- [Coupe models] - [Roadster models]
46	SB	-
47	V	-
48	SHIELD	-

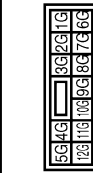
51	W	-
52	R	-
57	SHIELD	-
58	B	-
60	V	-
61	SB	-
62	SHIELD	-
63	BR	-
64	Y	-
65	SHIELD	-
66	P	-
67	L	-
68	SHIELD	-
69	R	-
70	G	-
71	V	-
72	P	-
73	BR	-
74	GR	-
75	O	-
80	Y	-
81	R	-
82	B	-
83	GR	-
84	G	- [Coupe models] - [Roadster models]
85	LG	-
86	V	-
87	BR	-
88	GR	-
93	Y	-
94	L	- [Coupe models] - [Roadster models]
95	G	-
96	GR	- [Coupe models] - [Roadster models]
95	LG	-
96	L	-
97	Y	-
98	W	- [Coupe models] - [Roadster models]
98	Y/B	-
99	LG	-
100	B	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	- [Coupe models]
2	Y	- [Roadster models]
3	R	- [Coupe models] - [Roadster models]
3	LG	- [Roadster models]
4	G	-
5	BG	- [Coupe models] - [Roadster models]
6	O	- [Roadster models]
7	L	-
11	LG	-
12	Y	-
13	W	-
14	B	-
15	GR	-
16	LG	-

Connector No.	B3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



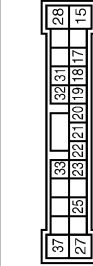
Terminal No.	Color of Wire	Signal Name [Specification]
5/G	LG	-
10/G	W	- [Coupe models] - [Roadster models]
11/G	W	- [Coupe models] - [Roadster models]
11/G	G	-
12/G	Y	-

Connector No.	B29
Connector Name	REAR SPEAKER LH
Connector Type	TK02FBR



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

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FBR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	L	SOUND SIGNAL REAR SPEAKER LH (+)
17	R	ROOF STATUS SIGNAL (AUDIO)
18	P	SOUND SIGNAL FRONT LH (+)
19	R	SOUND SIGNAL FRONT RH (+)
20	G	SOUND SIGNAL FRONT RH (-)
21	V	SOUND SIGNAL REAR LH (+)
22	SB	SOUND SIGNAL REAR LH (-)
23	BR	SOUND SIGNAL REAR RH (+)
25	GR	WOOFER AMP. ON SIGNAL
27	W	SOUND SIGNAL FRONT TWEETER RH (-)
28	P	SOUND SIGNAL REAR SPEAKER LH (-)
31	W	BOSE AMP. ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	B	SOUND SIGNAL FRONT TWEETER RH (+)

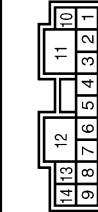
# BOSE AUDIO WITH NAVIGATION SYSTEM

[BOSE AUDIO WITH NAVIGATION]

< WIRING DIAGRAM >

## BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA1ZPER-SJA2



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	SOUND SIGNAL WOOFER (-)
2	SB	SOUND SIGNAL WOOFER (+)
3	SHIELD	SHIELD
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	Y	BATTERY

Connector No.	B45
Connector Name	WIRE TO WIRE
Connector Type	TKOZMBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	SOUND SIGNAL REAR SPEAKER LH (+) [Coupe models]
1	LG	SOUND SIGNAL REAR WOOFER LH (-) [Roadster models with NAVI]
1	L	SOUND SIGNAL REAR WOOFER LH (-) [Roadster models without NAVI]
2	R	SOUND SIGNAL REAR SPEAKER RH (+) [Coupe models]
2	LG	SOUND SIGNAL REAR WOOFER RH (-) [Roadster models]
3	BR	SOUND SIGNAL REAR SPEAKER RH (+) [Roadster models]
3	Y	SOUND SIGNAL REAR WOOFER RH (-) [Coupe models]
4	L	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
5	V	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
6	LG	SOUND SIGNAL TWEETER LH (-)
7	GR	SOUND SIGNAL FRONT SPEAKER RH (+) [Coupe models]
8	BG	SOUND SIGNAL FRONT SPEAKER RH (+) [Roadster models]
8	O	SOUND SIGNAL FRONT SPEAKER RH (-) [Roadster models]
9	SB	SOUND SIGNAL WOOFER (+) [Coupe models]
9	LG	SOUND SIGNAL REAR SPEAKER RH (+) [Roadster models]
10	P	SOUND SIGNAL REAR WOOFER (-) [Coupe models]
10	Y	SOUND SIGNAL REAR WOOFER (-) [Roadster models with NAVI]
10	V	SOUND SIGNAL REAR WOOFER (-) [Roadster models without NAVI]
11	Y	BATTERY
12	B	GND
13	G	SOUND SIGNAL FRONT SPEAKER RH (-)
14	V	SOUND SIGNAL WOOFER (-) [Coupe models]
14	Y	SOUND SIGNAL REAR SPEAKER RH (-) [Roadster models]

Connector No.	B43
Connector Name	WOOFER
Connector Type	RS08FGY-PR



Connector No.	B47
Connector Name	REAR SPEAKER LH
Connector Type	TKOZFBP



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

Connector No.	B48
Connector Name	REAR WOOFER LH
Connector Type	MS02FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	- [With NAVI]
1	L	- [Without NAVI]
2	Y	- [With NAVI]
2	V	- [Without NAVI]

Connector No.	B81
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]

4	W	-
5	BR	-
6	B	-
8	Y	-
9	O	-
14	GR	-
15	SB	-
16	V	-
17	G	-
24	LG	-
25	V	-
31	L	-
32	P	-
34	O	-
35	R	-

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# BOSE AUDIO WITH NAVIGATION SYSTEM

[BOSE AUDIO WITH NAVIGATION]

< WIRING DIAGRAM >

## BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH07V-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	O
2	R	Y
3	Y	Y
3	B	B
4	G	G
7	R	R
7	Y	Y
8	LG	LG
9	Y	Y
11	R	R
20	G	G
21	R	R
30	B	B
40	W	W
41	V	V
42	G	G
43	L	L
44	SB	SB
51	P	P
52	L	L
53	SHIELD	SHIELD
54	BR	BR
55	Y	Y
56	SHIELD	SHIELD
57	G	G
57	P	P
58	R	R
58	L	L
59	B	B
60	W	W
61	GR	GR
62	B	B
63	Y	Y
64	V	V
65	SB	SB
66	EG	EG
66	O	O
67	Y	Y

68	P	P
68	GR	GR
68	L	L
68	P	P
70	G	G
70	O	O
80	V	V
81	SB	SB
82	G	G
83	R	R
84	W	W
85	B	B
86	SHIELD	SHIELD
87	O	O
88	BR	BR
89	Y	Y
90	SHIELD	SHIELD
92	SB	SB
92	LG	LG
93	Y	Y
93	W	W
94	SHIELD	SHIELD
94	G	G
95	GR	GR
95	LG	LG
97	Y	Y
97	W	W
98	Y/B	Y/B
99	G	G
100	BR	BR
100	Y	Y

Connector No.	B229
Connector Name	REAR SPEAKER RH
Connector Type	TK02FBR



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

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TK02MFR-P



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

Connector No.	B244
Connector Name	WIRE TO WIRE
Connector Type	TK02FBR



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

Connector No.	B245
Connector Name	REAR SPEAKER RH
Connector Type	TK02FBR



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

Connector No.	B249
Connector Name	REAR WOOFER RH
Connector Type	NS02FW-CS



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

Connector No.	B301
Connector Name	WIRE TO WIRE
Connector Type	TH40MFR-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	LG	LG
5	L	L
6	P	P
8	O	O
9	Y	Y
14	BR	BR
15	BR	BR
16	W	W
17	DG	DG
24	V	V
25	LG	LG
31	BG	BG
32	P	P
34	O	O
35	SB	SB

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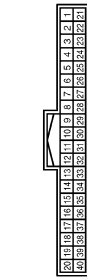
# BOSE AUDIO WITH NAVIGATION SYSTEM

[BOSE AUDIO WITH NAVIGATION]

< WIRING DIAGRAM >

## BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B303
Connector Name	SOFT TOP CONTROL UNIT
Connector Type	TH4CFB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	SENSOR POWER SUPPLY (ROOF STRIKER SENSOR LH)
3	DG	ROOF STRIKER SENSOR RH
4	W	ROOF STRIKER SENSOR LH
8	Y	REVERSE SIGNAL
9	SB	POWER CONDITION (POWER WINDOW)
10	O	TRUNK LID OPEN SIGNAL
11	O	ROOF STATUS SIGNAL (INDICATOR)
12	SB	ROOF STATUS SIGNAL (AUDIO)
14	L	ROOF OPEN / CLOSE SWITCH (CLOSE)
15	LG	ROOF OPEN / CLOSE SWITCH (OPEN)
16	V	TRUNK ROOM LAMP SWITCH
17	BG	CAN-H
18	P	CAN-L
19	LG	LOCAL COMMUNICATION (POWER WINDOW)
20	V	LOCAL COMMUNICATION (BCM)
21	BR	SENSOR POWER SUPPLY (ROOF STRIKER SENSOR RH)
29	DG	GND
35	P	ROOF OPEN / CLOSE SWITCH (GND)

Connector No.	B403
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2 / IPP-HU



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

Connector No.	B404
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HUA



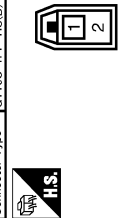
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	B406
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2 / IPP-HU(Z1)



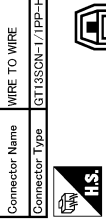
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	B408
Connector Name	SATELLITE RADIO ANTENNA
Connector Type	GT16C-1PP-HUB



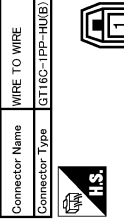
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

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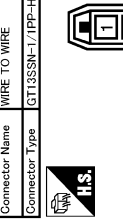
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	B426
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HUB

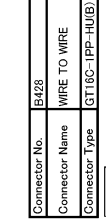


Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	B427
Connector Name	WIRE TO WIRE
Connector Type	GT13SSN-1 / IPP-HU(Z1)



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



Connector No.	B428
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HUB

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

Connector No.	B429
Connector Name	WIRE TO WIRE
Connector Type	GT13SS-1 / S-HU(Z1)



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

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# BOSE AUDIO WITH NAVIGATION SYSTEM

[BOSE AUDIO WITH NAVIGATION]

< WIRING DIAGRAM >

## BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B430
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HUB



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

Connector No.	B431
Connector Name	ANTENNA BASE
Connector Type	GT13SSN-1/PP-HU



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

Connector No.	B432
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HUB



Terminal No.	3	4
Color of Wire	-	-
Signal Name [Specification]	SATELLITE ANTENNA SIGNAL SHIELD	

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



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	Y	-
9	G	-
10	BG	- [Coupe models]
10	O	- [Roadster models]
11	P	- [With BOSE system]
11	Y	- [Without BOSE system]
12	L	-
13	B	-
14	SB	- [Coupe models]
14	Y	- [Roadster models]
15	W	-
19	G	-
23	R	-
44	L	-
47	B	-
48	SB	-
49	W	-
50	LG	-
51	R	-
52	V	-
53	BG	- [Coupe models]
53	O	- [Roadster models]
54	GR	-
55	G	-

Connector No.	D5
Connector Name	FRONT DOOR SPEAKER LH
Connector Type	NS22FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	- [With BOSE system]
2	V	- [Without BOSE system]

Connector No.	B31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



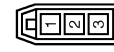
Terminal No.	Color of Wire	Signal Name [Specification]
10	V	-
11	LG	-
12	P	- [With BOSE system]
12	LG	- [Without BOSE system]
13	V	- [Coupe models without BOSE system]
13	L	- [Except for coupe models without BOSE system]
14	B	-
15	W	-
19	P	-
23	L	-
44	L	-
50	Y	-
51	Y	-
52	G	-
53	BG	- [Coupe models]
53	O	- [Roadster models]
54	GR	-
55	L	-

Connector No.	D36
Connector Name	FRONT DOOR SPEAKER RH
Connector Type	NS22FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [Coupe models without BOSE system]
1	L	- [Except for coupe models without BOSE system]
2	P	- [With BOSE system]
2	LG	- [Without BOSE system]

Connector No.	D32
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU(2)



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

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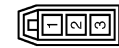
# BOSE AUDIO WITH NAVIGATION SYSTEM

[BOSE AUDIO WITH NAVIGATION]

< WIRING DIAGRAM >

## BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	D304
Connector Name	ANTENNA AMP.
Connector Type	GT13SC-2/IS-HU



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

Connector No.	D311
Connector Name	GLASS ANTENNA
Connector Type	P01PE-A



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

Connector No.	E108
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	L	-

4	L	-
7	BR	-
8	GR	-
9	P	- [Coupe models]
9	L	- [Roadster models]
11	V	-
12	R	-
13	L	-
14	GR	-
15	P	-
16	W	-
17	SB	-
20	LG	-
21	BR	- [Coupe models]
21	G	- [Roadster models]
31	L	-
32	Y	-
33	P	-
34	L	-
35	BR	-
36	V	-
37	Y	-
38	R	-
39	B	-
40	W	-
41	LG	-
42	SB	-
43	G	-
44	R	- [Roadster models with M/T]
44	GR	- [Except for roadster models with M/T]
45	BG	- [Coupe models]
45	O	- [Roadster models]
46	W	-
47	P	-
58	SHIELD	-
59	L	-
70	P	-
80	W	-
81	P	-
82	G	-
83	V	-
84	L	-
85	BG	- [Coupe models]
85	O	- [Roadster models]
86	LG	-
87	R	-
89	P	-
91	W	-
92	L	-
93	G	-
94	Y	-
94	Y	-
96	Y	-

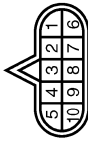
Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
2	G	-
3	W	-
4	R	-
5	B	-
8	L	-
9	Y	-
10	GR	-
19	BG	- [Coupe models]
19	O	- [Roadster models]
20	Y	-
28	B	-
29	LG	-
30	R	-
31	BG	- [Coupe models]
31	O	- [Roadster models]
39	W	-
42	G	-
43	P	-
44	L	-
45	Y	-
46	V	-

97	BR	-
98	GR	-
99	LC	-
100	BG	- [Coupe models]
100	O	- [Roadster models]

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DCY



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	BR	-
3	L	-
4	V	-
5	B	-
6	Y	-
7	W	-
8	P	-
9	GR	-
10	B	-

Connector No.	F56
Connector Name	BACK-UP LAMP SWITCH
Connector Type	RK2FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	BG	- [Coupe models]
2	O	- [Roadster models]

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P

AV

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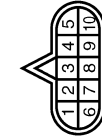
# BOSE AUDIO WITH NAVIGATION SYSTEM

< WIRING DIAGRAM >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	F301
Connector Name	TOM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FG



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	VIGN
2	B	BATT
3	R	CAN-H
4	O	K-LINE
5	G	GND
6	GR	VIGN
7	L	REV LAMP RLY
8	BR	CAN-L
9	Y	STARTER RLY
10	W/B	GND

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-M2



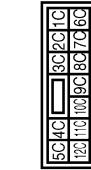
Terminal No.	Color of Wire	Signal Name [Specification]
1A	Y	-
2A	G	-
3A	L	-
4A	P	-
5A	L	-
6A	Y	-
7A	BR	-
8A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



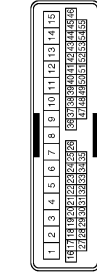
Terminal No.	Color of Wire	Signal Name [Specification]
1B	Y	-
2B	P	-
3B	G	-
4B	O	-
5B	Y	-
6B	R	-
7B	SB	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
6C	R	-
7C	B	-
8C	R	- [Coupe models]
9C	O	- [Roadster models]
10C	L	-
11C	LG	-
12C	O	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS1.5



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	Y	-
9	G	-
10	V	-
11	V	-
12	L	-
13	B	-
14	Y	-
15	W	-
19	Y	-
23	Y/B	-
44	L	-
47	B	-
48	SB	-
49	SB	- [Roadster models with M/T]
50	W	- [Except for roadster models with M/T]
51	R	-
52	L	-
53	W	-
54	G	-
55	R	-

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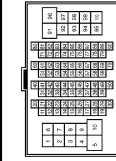
# BOSE AUDIO WITH NAVIGATION SYSTEM

[BOSE AUDIO WITH NAVIGATION]

< WIRING DIAGRAM >

## BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	L	-
3	L	-
4	L	-
5	B	-
6	P	-
7	B	-
8	P	-
9	L	- [Coupe models]
10	B	- [Roadster models]
11	GR	-
12	R	-
13	L	-
14	G	-
15	P	-
16	W	-
17	BR	-
18	W	-
19	GR	-
20	GR	-
21	BR	- [Coupe models]
22	BR	- [Roadster models]
23	R	-
24	L	- [Roadster models with M/T]
25	BR	- [Except for roadster models with M/T]
26	Y	- [Roadster models with M/T]
27	Y	- [Roadster models with M/T]
28	V	- [Except for roadster models with M/T]
29	P	-
30	L	-
31	BR	-
32	V	-
33	P	-
34	L	-
35	BR	-
36	SB	-
37	Y	-
38	LG	-
39	SB	-
40	W	-
41	LG	-
42	R	-
43	G	-
44	G	- [With A/T]
45	R	- [With M/T]
46	O	-
47	BR	-
48	SHIELD	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

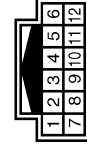


Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	LG	-
4	O	-
5	V	-
6	V	-
7	LG	-
8	SB	-
9	GR	-
10	Y	-
11	Y	-
12	V	-
13	BR	-
14	V	-
15	B	-
16	V	-
17	O	-
18	SB	-

21	G	-
22	GR	-
23	V	-
24	R	-
25	L	-
26	P	-
27	W	-
28	W	-
29	W	-
30	W	-
31	W	-
32	W	-
33	W	-
34	R	-
35	B	-
36	L	-
37	L	-
38	GR	-
39	R	- [Coupe models]
40	R	- [Roadster models]
41	V	-
42	V	-
43	O	-
44	O	-
45	O	- [With A/T]
46	SB	- [With M/T]
47	R	- [With M/T]
48	SHIELD	-
49	V	-
50	R	-
51	R	-
52	R	-
53	SHIELD	-
54	B	-
55	L	-
56	V	-
57	R	-
58	R	-
59	SB	-
60	SB	-
61	SB	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	LG	-
67	V	-
68	V	-
69	SHIELD	-
70	R	-
71	G	-
72	P	-
73	BR	-
74	GR	-
75	O	-
76	Y	-

81	W	-
82	BR	-
83	GR	-
84	L	-
85	LG	-
86	V	-
87	BR	-
88	SB	-
89	Y	-
90	SB	-
91	L	-
92	L	-
93	GR	-
94	GR	-
95	W	-
96	L	-
97	LG	-
98	Y	-
99	Y/B	-
100	W	-

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	R	-
4	B	-
5	V	-
6	R	-
7	SHIELD	-
8	R	-
9	G	-
10	B	-
11	G	-
12	Y	-

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A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P

AV

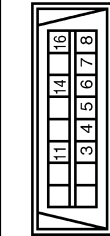
# BOSE AUDIO WITH NAVIGATION SYSTEM

## [BOSE AUDIO WITH NAVIGATION]

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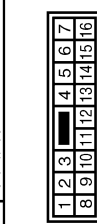
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Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FV



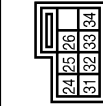
Terminal No.	Color of Wire	Signal Name [Specification]
3	Y	-
4	B	-
5	B	-
6	L	-
7	Y	- [Cruise models]
7	V	- [Roadster models]
8	G	-
11	LG	-
14	P	-
16	Y	-

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS (BMW-CS)



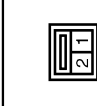
Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	-
3	LG	-
4	LG	-
5	V	-
6	V	-
7	L	-
11	LG	-
12	Y	-
13	W	-
14	L	-
15	W	-
16	L	-

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK02FGY-1V



Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
25	SB	-
26	W	- [Cruise models]
26	BR	- [Roadster models]
31	L	-
32	Y	-
33	B	-
34	LG	-

Connector No.	M41
Connector Name	TWEEETER LH
Connector Type	TK02FBR



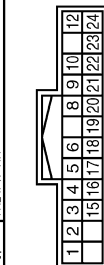
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	M42
Connector Name	TWEEETER RH
Connector Type	TK02FBR



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

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TK024FW-NH



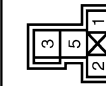
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	O	IGNITION POWER SUPPLY
3	L	VEHICLE SPEED SIGNAL (2-PULSE)
4	Y	VEHICLE SPEED SIGNAL (8-PULSE)
5	B	ILLUMINATION CONTROL SIGNAL
8	R	ROOF STATUS SIGNAL
9	BR	COMMUNICATION SIGNAL (METER-TRIPLE METER)
10	L	COMMUNICATION SIGNAL (TRIPLE METER-METER)
12	G	S-MODE SWITCH SIGNAL
15	L	ACC POWER SUPPLY
16	R	AIR BAG SIGNAL
17	B	GROUND
18	V	AMBIENT SENSOR SIGNAL
19	G	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
20	GR	AMBIENT SENSOR GROUND
21	L	CAN-H
22	P	CAN-L
23	B	GROUND
24	Y	FUEL LEVEL SENSOR GROUND

Connector No.	M68
Connector Name	PARKING BRAKE SWITCH
Connector Type	P01FB-A



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

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2-LC



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

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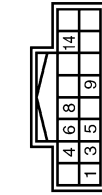
# BOSE AUDIO WITH NAVIGATION SYSTEM

## [BOSE AUDIO WITH NAVIGATION]

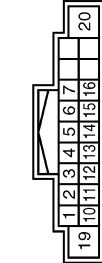
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### BOSE AUDIO WITH NAVIGATION SYSTEM

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



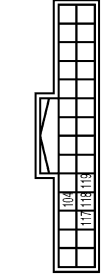
Connector No.	M84
Connector Name	AV CONTROL UNIT
Connector Type	TH18FT-C32



Terminal No.	Color of Wire	Signal Name [Specification]
26	LG	AUX IMAGE SIGNAL [Coupe models]
28	LG	AUX IMAGE SIGNAL [Roadster models]
29	SB	DISK EJECT SIGNAL
46	V	AUX IMAGE GND [Coupe models]
47	R	AUX IMAGE GND [Roadster models]
49	SHIELD	SHIELD
49	BR	SW GND

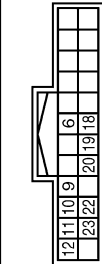


Connector No.	M87
Connector Name	AV CONTROL UNIT
Connector Type	TH28FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	V	ACC
4	R	ILL
5	R	ILL CONT
6	LG	AV COMM (H) [Coupe models]
8	L	AV COMM (H) [Roadster models]
8	Y	AV COMM (L) [Coupe models]
8	P	AV COMM (L) [Roadster models]
9	BR	SW GND
14	SB	DISK EJECT SIGNAL

Connector No.	M75
Connector Name	FRONT DISPLAY UNIT
Connector Type	TH24FW-NH

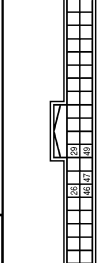


Terminal No.	Color of Wire	Signal Name [Specification]
1	V	BOSE AMP ON SIGNAL
2	LG	SOUND SIGNAL FRONT LH (+) [Roadster models]
2	P	SOUND SIGNAL FRONT LH (-) [Roadster models]
3	V	SOUND SIGNAL FRONT LH (+) [Coupe models]
3	L	SOUND SIGNAL FRONT LH (-) [Roadster models]
4	V	SOUND SIGNAL REAR LH (+) [Coupe models]
4	R	SOUND SIGNAL REAR LH (-) [Roadster models]
5	R	SOUND SIGNAL REAR LH (+) [Roadster models]
5	SB	SOUND SIGNAL REAR LH (-) [Roadster models]
6	P	STRG SW A
7	L	ACC
10	SHIELD	SHIELD
11	L	SOUND SIGNAL FRONT RH (+) [Coupe models]
11	R	SOUND SIGNAL FRONT RH (-) [Roadster models]
12	P	SOUND SIGNAL FRONT RH (+) [Coupe models]
12	G	SOUND SIGNAL FRONT RH (-) [Roadster models]
13	R	SOUND SIGNAL REAR RH (+) [Coupe models]
13	BR	SOUND SIGNAL REAR RH (-) [Roadster models]
14	G	SOUND SIGNAL REAR RH (+) [Coupe models]
14	Y	SOUND SIGNAL REAR RH (-) [Roadster models]
15	B	STRG SW GND
16	L	ACC
18	Y	STRG SW B
19	Y	BATTERY GND
20	B	GND

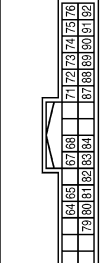
Terminal No.	Color of Wire	Signal Name [Specification]
6	SHIELD	SHIELD
9	R	COMM (DISP->CONT) [Coupe models]
9	G	COMM (DISP->CONT) [Roadster models]
10	G	COMM (CONT->DISP) [Coupe models]
10	R	COMM (CONT->DISP) [Roadster models]
11	Y	BATTERY
12	B	GND
18	L	COMPOSITE IMAGE SIGNAL
19	B	COMPOSITE IMAGE SIGNAL GND
20	Y	-
22	SHIELD	SHIELD
23	V	ACC



Connector No.	M85
Connector Name	AV CONTROL UNIT
Connector Type	TH40FW-NH



Connector No.	M86
Connector Name	AV CONTROL UNIT
Connector Type	TH28FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
65	V	PARKING BRAKE SIGNAL
67	B	COMPOSITE IMAGE GND
68	L	COMPOSITE IMAGE SIGNAL
71	SHIELD	MICROPHONE GND
72	R	MICROPHONE VCC
73	G	COMM (CONT->DISP) [Coupe models]
73	R	COMM (CONT->DISP) [Roadster models]
74	P	CAN-L [Coupe models]
74	L	CAN-L [Roadster models]
75	Y	AV COMM (L)

# BOSE AUDIO WITH NAVIGATION SYSTEM

## [BOSE AUDIO WITH NAVIGATION]

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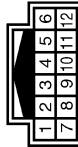
### BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M99
Connector Name	USB CONNECTOR
Connector Type	TA0A0FG



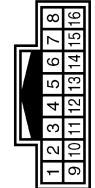
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	R	-
3	O	-
4	L	-

Connector No.	M99
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	L	- [Coupe models]
3	B	- [Roadster models]
4	G	- [Coupe models]
5	R	- [Roadster models]
6	Y	- [Coupe models]
7	W	- [Roadster models]
8	P	- [Roadster models with M/T]
9	R	- [Except for roadster models with M/T]
10	L	- [Roadster models with M/T]
11	B	- [Except for roadster models with M/T]
12	SHIELD	-
13	LG	- [Coupe models]
14	L	- [Roadster models]
15	V	- [Coupe models]
16	R	- [Roadster models]

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
5	R	-
6	B	-
7	P	-
8	R	-
9	P	-
10	B	-
11	Y	-
12	G	-
13	G	-
14	SHIELD	-
15	R	-
16	G	-

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-RZ6-R-LH-Z



Terminal No.	Color of Wire	Signal Name [Specification]
97	R	APS 1
98	P	APS 2
99	L	AVCC 1-APS 1
100	W	GND-APS 1
101	SB	ASCDSW
102	GR	FTPRS
103	G	AVCC2-APS 2
104	GR	GND-APS 2
105	L	PDPRESS
106	W	TF
107	BR	AVCC 2-FTPRS

108	Y	GND ASCDSW
109	G	NEUT-H
110	R	TACHO
112	SB	GND-FTPRS
113	P	VEHCAN-L1
114	L	VEHCAN-H1
117	Y	KLINE [Coupe models]
121	V	KLINE [Roadster models]
122	P	BRAKE
123	B	GND
124	B	GND
125	R	VEB
126	BR	BNCSW
127	B	GND
128	B	GND

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



Terminal No.	Color of Wire	Signal Name [Specification]
2	W	-
3	BG	- [Coupe models]
4	O	- [Roadster models]
5	W	-
6	B	-
7	L	-
8	Y	-
9	R	-
10	O	-
19	G	-
20	G	-
23	B	-
28	LG	-
30	LG	-
31	O	-
39	G	-
42	G	-
43	P	-
44	L	-
45	BR	-
46	V	-



# BOSE AUDIO WITH NAVIGATION SYSTEM

[BOSE AUDIO WITH NAVIGATION]

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## BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS (F-TM4)



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	- [Coupe models]
2	LG	- [Roadster models]
3	O	- [Coupe models]
3	B	- [Roadster models]
4	W	- [Coupe models]
4	G	- [Roadster models]
7	LG	- [Coupe models]
7	Y	- [Roadster models]
8	LG	-
9	Y	-
11	R	-
20	G	-
21	R	-
30	B	-
40	O	-
41	Y	-
42	G	-
43	L	-
44	SB	-
51	R	-
52	G	-
53	SHIELD	-
54	LG	- [Coupe models]
54	BR	- [Roadster models]
55	V	- [Coupe models]
55	Y	- [Roadster models]
56	SHIELD	-
57	G	- [Coupe models]
57	P	- [Roadster models]
58	R	- [Coupe models]
58	L	- [Roadster models]
59	B	-
60	W	-
61	GR	-
62	B	-
63	Y	-
64	L	-
65	G	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
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72	R	ROOM ANT 2- [Roadster models with M/T]
72	L	ROOM ANT 2- [Except for roadster models with M/T]
73	G	ROOM ANT 2+ [Roadster models with M/T]
73	P	ROOM ANT 2+ [Except for roadster models with M/T]
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	L	ROOM ANT 1- [With A/T]
78	O	ROOM ANT 1- [Without A/T]
79	Y	ROOM ANT 1+ [With A/T]
79	R	ROOM ANT 1+ [Without A/T]
80	GR	NATS ANT AMP
81	W	NATS ANT AMP
82	R	IGN RELAY (F/B) CONT
83	Y	KYLS ENT RECEIVER (FRONT) COMM [Roadster models with M/T]
83	GR	KYLS ENT RECEIVER (FRONT) COMM [Except for roadster models with M/T]
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT TLL
93	V	ON IND
95	O	ACC RELAY POWER SUPPLY
96	Y	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	P	S/L CONDITION 2
99	R	SHIFT P [With A/T]
99	BR	CLUTCH PEDAL POS SW [Coupe models with M/T]
99	R	CLUTCH PEDAL POS SW [Roadster models with M/T]
100	G	PASSENGER DOOR REQUEST SW [Roadster models with M/T]
100	GR	PASSENGER DOOR REQUEST SW [Except for roadster models with M/T]
101	SB	DRIVER DOOR REQUEST SW [Roadster models with M/T]
101	Y	DRIVER DOOR REQUEST SW [Except for roadster models with M/T]
102	O	BLOWER FAN MOTOR RELAY COAT
103	LG	KYLS ENT RECEIVER (FRONT) PWR SUPPLY
103	GR	KYLS ENT RECEIVER (REAR) PWR SUPPLY
106	W	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	P	HAZARD SW [Roadster models with M/T]
110	P	HAZARD SW [Except for roadster models with M/T]
111	Y	S/L UNIT COMM

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MP-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
10	G	- [Coupe models]
10	V	- [Roadster models]
11	V	- [Coupe models]
11	LG	- [Roadster models]
12	LG	- [Roadster models]
13	V	-
14	B	-
15	W	-
19	Y	-
23	Y/B	-
44	R	- [Coupe models]
44	O	- [Roadster models]
50	Y	-
51	Y	-
52	G	- [Roadster models with M/T]
52	GR	- [Except for roadster models with M/T]
53	W	-
54	G	-
55	R	-

JCNWM3132GB

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AV

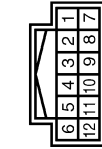
# BOSE AUDIO WITH NAVIGATION SYSTEM

## [BOSE AUDIO WITH NAVIGATION]

< WIRING DIAGRAM >

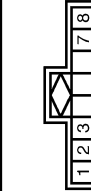
### BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M253
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	
2	B	
3	R	
4	W	
5	P	- [Cruise models]
5	G	- [Roadster models]
6	L	- [Coupe models]
6	R	- [Roadster models]
7	SHIELD	
8	SHIELD	
9	G	
10	R	

Connector No.	M258
Connector Name	AUXILIARY INPUT JACKS
Connector Type	A09FW



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

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	T108FGY



Terminal No.	Color of Wire	Signal Name [Specification]
13	-	
14	-	
15	-	
16	-	
17	-	
18	-	
19	-	
20	-	

Connector No.	M406
Connector Name	WIRE TO WIRE
Connector Type	GT15SC-2/1S-HU



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

Connector No.	M407
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU(A)



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

Connector No.	M408
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/1S-HU



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

Connector No.	M409
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU(B)



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

Connector No.	M450
Connector Name	AV CONTROL UNIT
Connector Type	GT13SH-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
150	-	FM SUB
151	-	AM-FM MAIN
152	-	ANTENNA AMP. ON SIGNAL

Connector No.	M451
Connector Name	AV CONTROL UNIT
Connector Type	GT5-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
153	-	GPS ANTENNA SIGNAL
154	-	SHIELD

JCNWM3133GB

# BOSE AUDIO WITH NAVIGATION SYSTEM

< WIRING DIAGRAM >

[BOSE AUDIO WITH NAVIGATION]

## BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	IM432
Connector Name	AV CONTROL UNIT
Connector Type	GT17HNZ-4DS-HU



158	155
156	157

Terminal No.	Color of Wire	Signal Name [Specification]
157	-	RGB DIGITAL IMAGE SIGNAL (-)
158	-	RGB DIGITAL IMAGE SIGNAL (+)

Connector No.	IM433
Connector Name	AV CONTROL UNIT
Connector Type	FAKRA JACK



159	160
-----	-----

Terminal No.	Color of Wire	Signal Name [Specification]
159	-	SATELLITE ANTENNA SIGNAL
160	-	SHIELD

Connector No.	IM434
Connector Name	FRONT DISPLAY UNIT
Connector Type	GT17HNZ-4DS-HU



26	25
28	27

Terminal No.	Color of Wire	Signal Name [Specification]
27	-	RGB DIGITAL IMAGE SIGNAL (-)
28	-	RGB DIGITAL IMAGE SIGNAL (+)

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH16FTV-NH



8	7	6	5	4	3	2	1
16	15	14	13	12	11	10	9

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
5	R	-
6	B	-
7	P	-
8	R	-
11	B	-
12	Y	-
13	G	-
14	SHIELD	-
15	R	-
16	G	-

Connector No.	R5
Connector Name	MICROPHONE
Connector Type	TK04FW



1	2	3	4
---	---	---	---

Terminal No.	Color of Wire	Signal Name [Specification]
1	P	MICROPHONE SIGNAL
2	SHIELD	SHIELD
4	L	MICROPHONE VCC

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



6	5	4	3	2	1
12	11	10	9	8	7

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	B	-
3	R	-
4	B	-
5	V	-
8	R	-
9	SHIELD	-
10	G	-
11	G	-
12	Y	-

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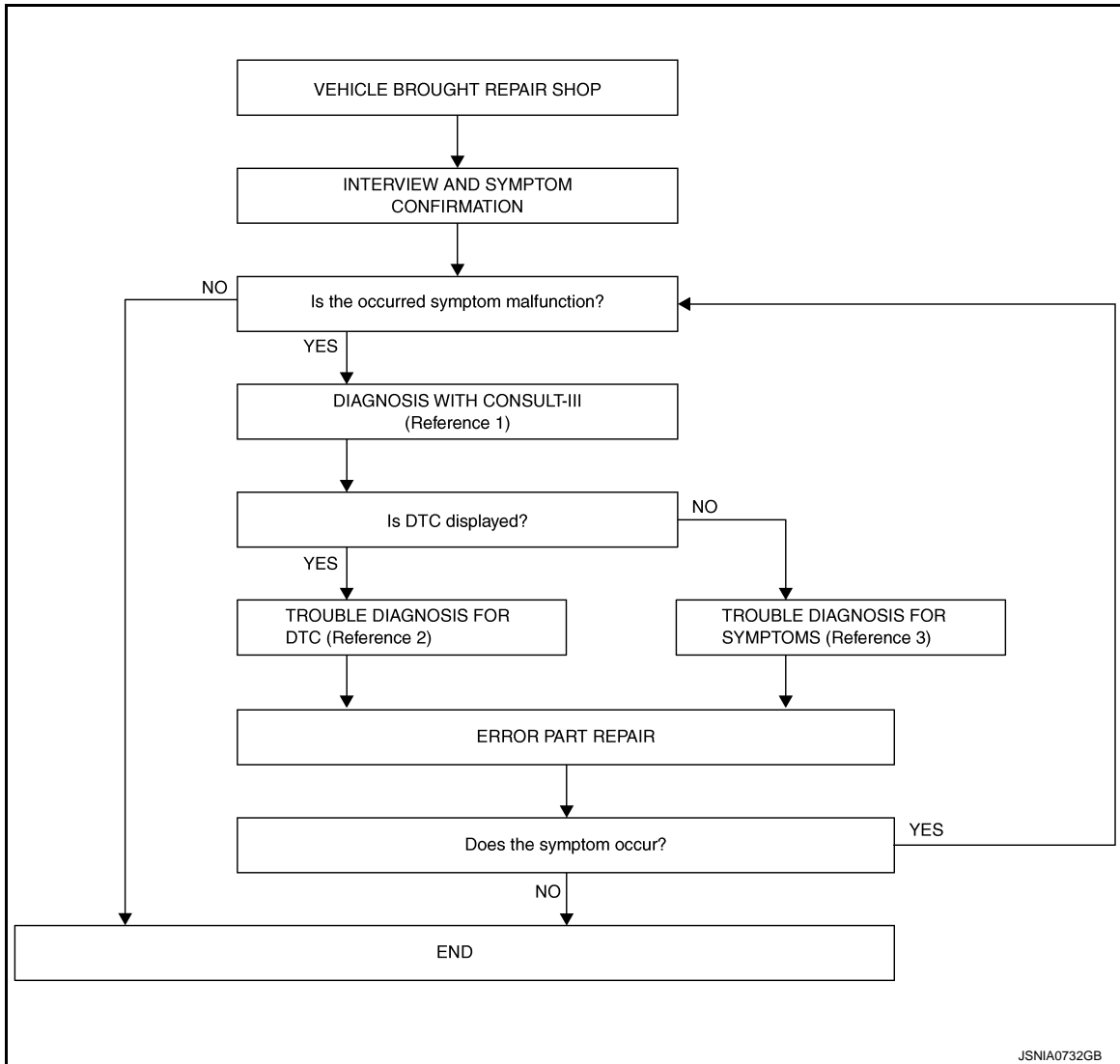
**BASIC INSPECTION**

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000005451324

OVERALL SEQUENCE



JSNIA0732GB

- Reference 1... Refer to [AV-231, "CONSULT - III Function \(MULTI AV\)"](#).
- Reference 2... Refer to [AV-241, "DTC Index"](#).
- Reference 3... Refer to [AV-321, "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-231, "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-241, "DTC Index".](#)

>> GO TO 5.

## 4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to [AV-321, "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

## ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

## ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000005451327

## BEFORE REPLACEMENT

When replacing AV control unit, save or print current vehicle specification with CONSULT-III configuration before replacement.

## AFTER REPLACEMENT

**CAUTION:**

When replacing AV control unit, you must perform "WRITE CONFIGURATION" with CONSULT-III.

- Complete the procedure of "WRITE CONFIGURATION" in order.
- If you set incorrect "WRITE CONFIGURATION", incidents might occur.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.

## ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:000000005451328

## 1. SAVING VEHICLE SPECIFICATION

## ④-CONSULT-III Configuration

Perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to [AV-270, "CONFIGURATION \(AV CONTROL UNIT\) : Description"](#).

**NOTE:**

If "READ CONFIGURATION" can not be used, use the "WRITE CONFIGURATION - Manual selection".

>> GO TO 2.

## 2. REPLACE AV CONTROL UNIT

Replace AV control unit. Refer to [AV-333, "Removal and Installation"](#).

>> GO TO 3.

## 3. WRITING VEHICLE SPECIFICATION

## ④-CONSULT-III Configuration

Perform "WRITE CONFIGURATION - Config file" or "WRITE CONFIGURATION - Manual selection" to write vehicle specification. Refer to [AV-271, "CONFIGURATION \(AV CONTROL UNIT\) : Special Repair Requirement"](#).

>> GO TO 4.

## 4. OPERATION CHECK

Check that the operation of the AV control unit and camera images (fixed guide lines and predictive course lines) are normal.

>> WORK END

## CONFIGURATION (AV CONTROL UNIT)

## CONFIGURATION (AV CONTROL UNIT) : Description

INFOID:000000005451329

- Since vehicle specifications are not included in the AV control unit after replacement, it is required to write vehicle specifications with CONSULT-III.
- Configuration has three functions as follows.

# INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[BOSE AUDIO WITH NAVIGATION]

Function	Description
READ CONFIGURATION	<ul style="list-style-type: none"><li>• Reads the vehicle configuration of current AV control unit.</li><li>• Saves the read vehicle configuration.</li></ul>
WRITE CONFIGURATION-Manual selection	Writes the vehicle configuration with manual selection.
WRITE CONFIGURATION-Config file	Writes the vehicle configuration with saved data.

## CONFIGURATION (AV CONTROL UNIT) : Special Repair Requirement

INFOID:000000005451330

### 1. WRITING MODE SELECTION

ⓂCONSULT-III Configuration  
Select "CONFIGURATION" of AV control unit.

When writing saved data>>GO TO 2.  
When writing manually>>GO TO 3.

### 2. PERFORM "WRITE CONFIGURATION-CONFIG FILE"

ⓂCONSULT-III Configuration  
Perform "WRITE CONFIGURATION-Config file".

>> WORK END

### 3. PERFORM "WRITE CONFIGURATION-MANUAL SELECTION"

ⓂCONSULT-III Configuration  
Select "WRITE CONFIGURATION-Manual selection" to write vehicle specifications into the AV control unit.  
For data to write, refer to [AV-271, "CONFIGURATION \(AV CONTROL UNIT\) : Configuration List"](#).

>> GO TO 4.

### 4. OPERATION CHECK

Check that the operation of the AV control unit and camera images (fixed guide lines and predictive course lines) are normal.

>> WORK END

## CONFIGURATION (AV CONTROL UNIT) : Configuration List

INFOID:000000005451331

**CAUTION:**  
Check vehicle specifications before servicing.

MANUAL SETTING ITEM	
Items	Setting value
SOUND SYSTEM	BASE
	BOSE

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AV

## DTC/CIRCUIT DIAGNOSIS

### U1000 CAN COMM CIRCUIT

#### Description

INFOID:000000005451334

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-26, "CAN System Specification Chart"](#).

#### DTC Logic

INFOID:000000005451335

#### DTC DETECTION LOGIC

DTC	Display contents of CONSULT-III	DTC detection condition	Probable malfunction location
U1000	CAN COMM CIRCUIT [U1000]	AV control unit is not transmitting or receiving CAN communication signal for 2 seconds or more.	CAN communication system.

#### Diagnosis Procedure

INFOID:000000005451336

#### 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-16, "Trouble Diagnosis Procedure"](#).
- NO >> Refer to GI section. Refer to [GI-39, "Intermittent Incident"](#).



# U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1010 CONTROL UNIT (CAN)

### DTC Logic

INFOID:000000005451337

### DTC DETECTION LOGIC

DTC	Display contents of CONSULT-III	DTC detection condition	Probable malfunction factor
U1010	CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly.

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# U1200 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1200 AV CONTROL UNIT

### DTC Logic

INFOID:000000005451338

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1200	Cont Unit [U1200]	AV control unit malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly.

# U1201 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1201 AV CONTROL UNIT

### DTC Logic

INFOID:000000005451339

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1201	GYRO NO CONN [U1201]	AV control unit malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly.

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# U1202 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1202 AV CONTROL UNIT

### DTC Logic

INFOID:000000005451340

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1202	G-SENSOR NO CONN [U1202]	AV control unit malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly.

# U1204 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1204 AV CONTROL UNIT

### DTC Logic

INFOID:000000005451341

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1204	GPS CONN [U1204]	GPS malfunction is detected.	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.

### Diagnosis Procedure

INFOID:000000005451342

#### 1. PERFORM THE SELF-DIAGNOSIS

1. Delete the "self-diagnosis" results of "MULTI AV". 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 >> An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs.

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# U1205 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1205 AV CONTROL UNIT

### DTC Logic

INFOID:000000005451343

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1205	GPS ROM [U1205]	GPS malfunction is detected.	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.

### Diagnosis Procedure

INFOID:000000005451344

#### 1. PERFORM THE SELF-DIAGNOSIS

1. Delete the "self-diagnosis" results of "MULTI AV". 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 >> An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs.

# U1206 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1206 AV CONTROL UNIT

### DTC Logic

INFOID:000000005451345

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1206	GPS RAM [U1206]	GPS malfunction is detected.	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.

### Diagnosis Procedure

INFOID:000000005451346

#### 1. PERFORM THE SELF-DIAGNOSIS

1. Delete the "self-diagnosis" results of "MULTI AV". 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 >> An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs.

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AV

# U1207 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1207 AV CONTROL UNIT

### DTC Logic

INFOID:000000005451347

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1207	GPS RTC [U1207]	GPS malfunction is detected.	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.

### Diagnosis Procedure

INFOID:000000005451348

#### 1. PERFORM THE SELF-DIAGNOSIS

1. Delete the "self-diagnosis" results of "MULTI AV". 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 >> An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs.



# U1216 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1216 AV CONTROL UNIT

### DTC Logic

INFOID:000000005451349

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1216	CAN CONT [U1216]	AV control unit malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly.

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# U1217 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1217 AV CONTROL UNIT

### DTC Logic

INFOID:000000005451350

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1217	BLUETOOTH MODULE [U1217]	AV control unit malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly.

# U1218 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1218 AV CONTROL UNIT

### DTC Logic

INFOID:000000005451351

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1218	HDD CONN [U1218]	AV control unit malfunction is detected.	<ul style="list-style-type: none"><li>• If the music box function has no malfunctions, then there is a possibility of the detection of a temporary malfunction.</li><li>• Replace the AV control unit if the malfunction occurs constantly.</li></ul>

### Diagnosis Procedure

INFOID:000000005451352

#### 1. CHECK MUSIC BOX FUNCTION

##### Is music box function normal?

YES >> Malfunction may be detected transitory.

NO >> Replace AV control unit. Refer to [AV-333. "Removal and Installation"](#).

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# U1219 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1219 AV CONTROL UNIT

### DTC Logic

INFOID:000000005451353

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1219	HDD READ [U1219]	AV control unit malfunction is detected.	<ul style="list-style-type: none"><li>• If the music box function has no malfunctions, then there is a possibility of the detection of a temporary malfunction.</li><li>• Replace the AV control unit if the malfunction occurs constantly.</li></ul>

### Diagnosis Procedure

INFOID:000000005451354

#### 1. CHECK MUSIC BOX FUNCTION

##### Is music box function normal?

YES >> Malfunction may be detected transitory.

NO >> Replace AV control unit. Refer to [AV-333. "Removal and Installation"](#).

# U121A AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U121A AV CONTROL UNIT

### DTC Logic

INFOID:000000005451355

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U121A	HDD WRITE [U121A]	AV control unit malfunction is detected.	<ul style="list-style-type: none"><li>• If the music box function has no malfunctions, then there is a possibility of the detection of a temporary malfunction.</li><li>• Replace the AV control unit if the malfunction occurs constantly.</li></ul>

### Diagnosis Procedure

INFOID:000000005451356

#### 1. CHECK MUSIC BOX FUNCTION

##### Is music box function normal?

YES >> Malfunction may be detected transitory.

NO >> Replace AV control unit. Refer to [AV-333. "Removal and Installation"](#).

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# U121B AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U121B AV CONTROL UNIT

### DTC Logic

INFOID:000000005451357

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U121B	HDD COMM [U121B]	AV control unit malfunction is detected.	<ul style="list-style-type: none"><li>• If the music box function has no malfunctions, then there is a possibility of the detection of a temporary malfunction.</li><li>• Replace the AV control unit if the malfunction occurs constantly.</li></ul>

### Diagnosis Procedure

INFOID:000000005451358

#### 1. CHECK MUSIC BOX FUNCTION

##### Is music box function normal?

YES >> Malfunction may be detected transitory.

NO >> Replace AV control unit. Refer to [AV-333. "Removal and Installation"](#).

# U121C AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U121C AV CONTROL UNIT

### DTC Logic

INFOID:000000005451359

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U121C	HDD ACCESS [U121C]	AV control unit malfunction is detected.	<ul style="list-style-type: none"><li>• If the music box function has no malfunctions, then there is a possibility of the detection of a temporary malfunction.</li><li>• Replace the AV control unit if the malfunction occurs constantly.</li></ul>

### Diagnosis Procedure

INFOID:000000005451360

#### 1. CHECK MUSIC BOX FUNCTION

##### Is music box function normal?

YES >> Malfunction may be detected transitory.

NO >> Replace AV control unit. Refer to [AV-333. "Removal and Installation"](#).

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AV

# U121D AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U121D AV CONTROL UNIT

### DTC Logic

INFOID:000000005451361

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U121D	DSP CONN [U121D]	AV control unit malfunction is detected.	<ul style="list-style-type: none"><li>• If a disc can be played, then there is a possibility of the detection of a temporary malfunction.</li><li>• Replace the AV control unit if the malfunction occurs constantly.</li></ul>

### Diagnosis Procedure

INFOID:000000005451362

#### 1. CHECK PLAYBACK OF A DISK (CD)

##### Can a disk (CD) be played?

YES >> Malfunction may be detected transitory.

NO >> Replace AV control unit. Refer to [AV-333. "Removal and Installation"](#).



# U121E AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U121E AV CONTROL UNIT

### DTC Logic

INFOID:000000005451363

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U121E	DSP COMM [U121E]	AV control unit malfunction is detected.	<ul style="list-style-type: none"><li>• If a disc can be played, then there is a possibility of the detection of a temporary malfunction.</li><li>• Replace the AV control unit if the malfunction occurs constantly.</li></ul>

### Diagnosis Procedure

INFOID:000000005451364

#### 1. CHECK PLAYBACK OF A DISK (CD)

##### Can a disk (CD) be played?

YES >> Malfunction may be detected transitory.

NO >> Replace AV control unit. Refer to [AV-333. "Removal and Installation"](#).

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AV

# U1225 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1225 AV CONTROL UNIT

### DTC Logic

INFOID:000000005451365

### DTC DETECTION LOGIC

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1225	USB CONTROLLER [U1225]	USB connection malfunction is detected.	Check that the connection to the USB connector is normal.

# U1227 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1227 AV CONTROL UNIT

### DTC Logic

INFOID:000000005451366

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1227	DVD COMM [U1227]	AV control unit malfunction is detected.	<ul style="list-style-type: none"><li>• If DVD can be played, then there is a possibility of the detection of a temporary malfunction.</li><li>• Replace the AV control unit if the malfunction occurs constantly.</li></ul>

### Diagnosis Procedure

INFOID:000000005451367

#### 1. CHECK PLAYBACK OF A DISK (DVD)

##### Can a disc (DVD) be played?

YES >> Malfunction may be detected transitory.

NO >> Replace AV control unit. Refer to [AV-333. "Removal and Installation"](#).

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# U1228 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1228 AV CONTROL UNIT

### DTC Logic

INFOID:000000005451368

### DTC DETECTION LOGIC

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1228	SUB CPU CONN [U1228]	AV control unit malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly.

# U1229 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1229 AV CONTROL UNIT

### DTC Logic

INFOID:000000005451369

### DTC DETECTION LOGIC

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1229	iPod CERTIFICATION [U1229]	AV control unit malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly.

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# U122A AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U122A AV CONTROL UNIT

### DTC Logic

INFOID:000000005451370

DTC	Display contents of CONSULT-III	DTC detection condition	Action to take
U122A	CONFIG UNFINISH [U122A]	The writing of configuration data is incomplete.	Write configuration data with "MULTI AV" of CONSULT-III.

### Diagnosis Procedure

INFOID:000000005451371

#### 1.PERFORM THE SELF-DIAGNOSIS

When U122A is detected, write configuration data with "MULTI AV" of CONSULT-III.

>> Write configuration data with "MULTI AV" of CONSULT-III. Refer to [AV-271, "CONFIGURATION \(AV CONTROL UNIT\) : Special Repair Requirement"](#).

# U122E AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U122E AV CONTROL UNIT

### DTC Logic

INFOID:000000005451372

### DTC DETECTION LOGIC

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U122E	Built-in AUDIO CONN [U122E]	AV control unit malfunction is detected.	Replace the AV control unit if the malfunction occurs constantly.

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# U1232 STEERING ANGLE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1232 STEERING ANGLE SENSOR

### DTC Logic

INFOID:000000005451374

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1232	ST ANGLE SEN CALIB [1232]	Predictive course line center position adjustment of the steering angle sensor is incomplete.	Adjust the predictive course line center position of the steering angle sensor.

### Diagnosis Procedure

INFOID:000000005451375

#### 1. ADJUST THE PREDICTIVE COURSE LINE CENTER POSITION OF THE STEERING ANGLE SENSOR

When U1232 is detected, adjust the predictive course line center position of the steering angle sensor.

>> Adjusts the steering angle sensor neutral position on ABS actuator and electrical unit (control unit) side. Refer to [BRC-8. "ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION : Special Repair Requirement"](#).



# U1243 DISPLAY UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1243 DISPLAY UNIT

### DTC Logic

INFOID:000000005451376

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1243	FRONT DISP CONN [U1243]	When either one of the following items are detected: <ul style="list-style-type: none"> <li>display unit power supply and ground circuit malfunction is detected.</li> <li>communication circuit 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:000000005451377

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

Check front display unit power supply and ground circuit. Refer to [AV-307, "FRONT DISPLAY UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

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

#### 2. CHECK CONTINUITY COMMUNICATION CIRCUIT

- Turn ignition switch OFF.
- Disconnect front display unit connector and AV control unit connector.
- Check continuity between front display unit harness connector and AV control unit harness connector.

Front display unit		AV control unit		Continuity
Connector	Terminals	Connector	Terminals	
M75	9	M86	89	Existed
	10		73	

- Check continuity between front display unit harness connector and ground.

Front display unit		Ground	Continuity
Connector	Terminals		
M75	9		Not existed
	10		

Is the inspection result normal?

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

#### 3. CHECK COMMUNICATION SIGNAL

- Connect front display unit connector and AV control unit connector.
- Turn ignition switch ON.
- Check signal between front display unit harness connector and ground.

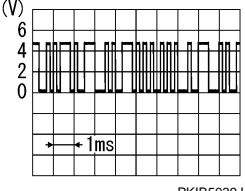
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# U1243 DISPLAY UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

(+)		(-)	Condition	Reference value
Front display unit				
Connector	Terminal			
M75	9	Ground	When adjusting display brightness.	

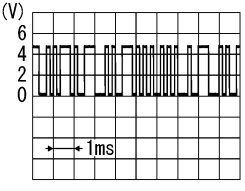
Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit. Refer to [AV-333. "Removal and Installation"](#).

## 4. CHECK COMMUNICATION SIGNAL

Check signal between front display unit harness connector and ground.

(+)		(-)	Condition	Reference value
Front display unit				
Connector	Terminal			
M75	10	Ground	When adjusting display brightness.	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front display unit. Refer to [AV-334. "Removal and Installation"](#).

# U1244 GPS ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1244 GPS ANTENNA

### DTC Logic

INFOID:000000005451378

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1244	GPS ANTENNA CONN [U1244]	GPS antenna connection malfunction is detected.	Check the connection of the GPS antenna connector.

### Diagnosis Procedure

INFOID:000000005451379

#### 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		
153	Ground	5.0 V

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace AV control unit. Refer to [AV-333, "Removal and Installation"](#).

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# U1258 SATELLITE RADIO ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1258 SATELLITE RADIO ANTENNA

### DTC Logic

INFOID:000000005548814

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1258	XM ANTENNA CONN [U1258]	Satellite radio antenna connection malfunction is detected.	<ul style="list-style-type: none"><li>Satellite radio antenna feeder.</li><li>Satellite radio antenna.</li></ul>

### Diagnosis Procedure

INFOID:000000005548815

#### 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 terminal and ground.

(+)	(-)	Voltage (Approx.)
AV control unit Terminal		
160	Ground	5.0 V

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace AV control unit. Refer to [AV-333. "Removal and Installation"](#).

# U1263 USB

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1263 USB

### DTC Logic

INFOID:000000005451380

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1263	USB OVERCURRENT [U1263]	Detection of over current in USB connector.	Check USB harness between the AV control unit and USB connector.

### Diagnosis Procedure

INFOID:000000005451381

#### 1. CHECK USB HARNESS

Visually check USB harness.

Is the inspection result normal?

- YES >> Replace AV control unit. Refer to [AV-333, "Removal and Installation"](#)
- NO >> Replace USB harness.

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# U1264 ANTENNA AMP.

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1264 ANTENNA AMP.

### DTC Logic

INFOID:000000005550914

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1264	ANTENNA AMP TERMINAL [U1264]	Radio antenna amp. ON circuit is open or shorted.	<ul style="list-style-type: none"> <li>Check antenna amp. ON signal circuit between the AV control unit and radio antenna amp. (coupe models)</li> <li>Check antenna amp. ON signal circuit between the AV control unit and antenna base. (roadster models)</li> </ul>

### COUPE

#### COUPE : Diagnosis Procedure

INFOID:000000005550913

#### 1.CHECK CONTINUITY BETWEEN AV CONTROL UNIT AND ANTENNA AMP.

- Turn ignition switch OFF.
- Disconnect antenna amp. connector and AV control unit connector.
- Check continuity between AV control unit harness connector and antenna amp. harness connector.

AV control unit		Antenna amp.		Continuity
Connector	Terminals	Connector	Terminals	
M450	152	D304	1	Existed

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

AV control unit		Ground	Continuity
Connector	Terminals		
M450	152		Not existed

Is the inspection result normal?

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

#### 2.CHECK VOLTAGE AV CONTEROL UNIT

- Connect AV control unit connector.
- Turn ignition switch ON.
- Check voltage between AV control unit harness connector and ground.

(+)		(-)	Voltage (Approx.)
AV control unit			
Connector	Terminals		
M450	152	Ground	12.0 V

Is the inspection result normal?

- YES >> Replace Antenna amp. Refer to [AV-342, "Removal and Installation"](#) .  
 NO >> Replace AV control unit. Refer to [AV-333, "Removal and Installation"](#) .

### ROADSTER

#### ROADSTER : Diagnosis Procedure

INFOID:000000005553978

#### 1.CHECK CONTINUITY BETWEEN AV CONTROL UNIT AND ANTENNA BASE

# U1264 ANTENNA AMP.

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

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

AV control unit		Antenna base		Continuity
Connector	Terminals	Connector	Terminals	
M450	152	B431	1	Existed

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

AV control unit		Ground	Continuity
Connector	Terminals		
M450	152		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

## 2. CHECK VOLTAGE AV CONTROL UNIT

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

AV control unit		(-)	Voltage (Approx.)
Connector	Terminals		
M450	152	Ground	12.0 V

Is the inspection result normal?

YES >> Replace Antenna base Refer to [AV-343, "Removal and Installation"](#).

NO >> Replace AV control unit. Refer to [AV-333, "Removal and Installation"](#).

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# U1265 BOSE AMP.

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1265 BOSE AMP.

### DTC Logic

INFOID:000000005550910

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1265	AMP ON TERMINAL [U1265]	BOSE amp. ON circuit is open or shorted.	Check BOSE amp. ON signal circuit between the AV control unit and BOSE amp.

### Diagnosis Procedure

INFOID:000000005550909

#### 1. CHECK CONTINUITY BETWEEN AV CONTROL UNIT AND BOSE AMP.

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

AV control unit		BOSE amp.		Continuity
Connector	Terminals	Connector	Terminals	
M84	1	B41	31	Existed

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

AV control unit		Ground	Continuity
Connector	Terminals		
M84	1		Not existed

Is the inspection result normal?

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

#### 2. CHECK VOLTAGE AV CONTEROL UNIT

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	Terminals		
M84	1	Ground	12.0 V

Is the inspection result normal?

- YES >> Replace BOSE amp. Refer to [AV-340, "COUPE : Removal and Installation"](#) (coupe type), or [AV-340, "ROADSTER : Removal and Installation"](#) (roadster models).  
 NO >> Replace AV control unit. Refer to [AV-333, "Removal and Installation"](#).



# U1300 AV COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1300 AV COMM CIRCUIT

### Description

INFOID:000000005451400

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 malfunction factor
U1300 U1240	<ul style="list-style-type: none"><li>• AV COMM CIRCUIT [U1300]</li><li>• SWITCH CONN [U1240]</li></ul>	When either one of the following items are detected: <ul style="list-style-type: none"><li>• Multifunction switch power supply and ground circuits are malfunctioning.</li><li>• AV communication circuits between AV control unit and multifunction switch are malfunctioning.</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>

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# U1310 AV CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1310 AV CONTROL UNIT

### DTC Logic

INFOID:000000005451401

DTC	Display contents of CONSULT-III	DTC detection condition	Possible malfunction factor
U1310	CONTROL UNIT (AV) [U1310]	An initial diagnosis error is detected in AV communication circuit.	Replace AV control unit. If the malfunction occurs constantly.

# 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:000000005451402

#### 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 AV control unit harness connectors and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	M84	19	OFF	Battery voltage
ACC power supply		7	ACC	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	M84	20	OFF	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

## FRONT DISPLAY UNIT

#### FRONT DISPLAY UNIT : Diagnosis Procedure

INFOID:000000005451403

#### 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 front display unit harness connector and ground.

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# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	M75	11	OFF	Battery voltage
ACC power supply		23	ACC	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between front display unit and fuse.

## 3.CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	M75	12	OFF	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

## BOSE AMP.

### BOSE AMP. : Diagnosis Procedure

INFOID:000000005510443

## 1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	8

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate the 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	Voltage (Approx.)
Battery power supply	B42	11	OFF	Battery voltage

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	12	OFF	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

# RGB DIGITAL IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## RGB DIGITAL IMAGE SIGNAL CIRCUIT

### Description

INFOID:000000005451406

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

### Diagnosis Procedure

INFOID:000000005451407

#### 1. CHECK CONTINUITY RGB DIGITAL IMAGE SIGNAL CIRCUIT

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

Front display unit		AV control unit		Continuity
Connector	Terminals	Connector	Terminals	
M454	27	M452	157	Existed
	28		158	

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

Front display unit		Ground	Continuity
Connector	Terminals		
M454	27		Not existed
	28		

Is the inspection result normal?

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

#### 2. CHECK RGB DIGITAL IMAGE SIGNAL

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

(+) Front display unit		(-)	Condition	Voltage (Applox.)
Connector	Terminal			
M454	27	Ground	Not connected connector.	1.3 V
	28			

Is the inspection result normal?

- YES >> Replace front display unit. Refer to [AV-334, "Removal and Installation"](#).  
 NO >> Replace AV control unit. Refer to [AV-333, "Removal and Installation"](#).

AV

# COMPOSITE IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## COMPOSITE IMAGE SIGNAL CIRCUIT

### Description

INFOID:000000005451408

AV control unit transmits the playback DVD image signal and AUX image signal to the front display unit.

### Diagnosis Procedure

INFOID:000000005451409

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

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

AV control unit		Front display unit		Continuity
Connector	Terminal	Connector	Terminal	
M86	68	M75	18	Existed

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

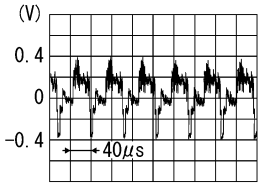
AV control unit		Ground	Continuity
Connector	Terminal		
M86	68		Not existed

Is the inspection result normal?

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

#### 2. CHECK AUX COMPOSITE SIGNAL

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

(+)		(-)	Condition	Reference value
AV control unit				
Connector	Terminal			
M86	68	Ground	At DVD image is displayed.	 <p>(V)</p> <p>0.4</p> <p>0</p> <p>-0.4</p> <p>40µs</p> <p>SKIB2251J</p>

Is the inspection result normal?

- YES >> Replace front display unit. Refer to [AV-334. "Removal and Installation"](#).  
 NO >> Replace AV control unit. Refer to [AV-333. "Removal and Installation"](#).

# AUX IMAGE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## AUX IMAGE SIGNAL CIRCUIT

### Description

INFOID:000000005451410

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

### Diagnosis Procedure

INFOID:000000005451411

#### 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	
M258	7	M85	26	Existed

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

Auxiliary input jacks		Ground	Continuity
Connector	Terminal		
M258	7		Not existed

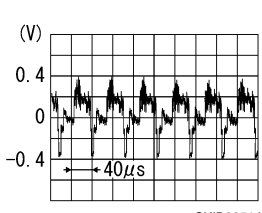
Is the inspection result normal?

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			
M258	7	Ground	At AUX image is displayed.	 <p>(V)</p> <p>0.4</p> <p>0</p> <p>-0.4</p> <p>40µs</p> <p>SKIB2251J</p>

Is the inspection result normal?

YES >> Replace AV control unit. Refer to [AV-333, "Exploded View"](#).

NO >> Check that there is no malfunction in the external device.

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# DISK EJECT SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## DISK EJECT SIGNAL CIRCUIT

### Description

INFOID:000000005451412

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

### Diagnosis Procedure

INFOID:000000005451413

#### 1. CHECK CONTINUITY DISK 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	29	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.

(+) AV control unit		(-)	Condition	Voltage (Approx.)
Connector	Terminal			
M85	29	Ground	Pressing the eject switch	0 V
			Except for above	5.0 V

Is the inspection result normal?

- YES >> Replace preset switch. Refer to [AV-345, "Exploded View"](#).  
NO >> Replace AV control unit. Refer to [AV-333, "Exploded View"](#).



# MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## MICROPHONE SIGNAL CIRCUIT

### Description

INFOID:000000005451414

Supply power from AV control unit to microphone. The microphone transmits the sound/voice to the AV control unit.

### Diagnosis Procedure

INFOID:000000005451415

#### 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	
M86	71	R5	2	Existed
	72		4	
	87		1	

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

AV control unit		Ground	Continuity
Connector	Terminals		
M86	72		Not existed
	87		

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	
M86	72	M86	71	5.0 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace AV control unit. Refer to [AV-333, "Removal and Installation"](#).

#### 3. CHECK MICROPHONE SIGNAL

1. Connect microphone connector.
2. Check signal between AV control unit harness connector.

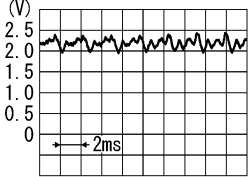
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AV

# MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

(+)		(-)		Condition	Reference value
AV control unit		AV control unit			
Connector	Terminal	Connector	Terminal		
M86	87	M86	71	Give a voice.	 <p style="text-align: right;">PKIB5037J</p>

Is the inspection result normal?

- YES >> Replace AV control unit. Refer to [AV-333. "Removal and Installation"](#).
- NO >> Replace microphone. Refer to [AV-349. "Removal and Installation"](#).

# STEERING SWITCH SIGNAL A CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## STEERING SWITCH SIGNAL A CIRCUIT

### Description

INFOID:000000005451418

Transmits the steering switch signal to AV control unit.

### Diagnosis Procedure

INFOID:000000005451419

#### 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	
M84	6	M36	24	Existed

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

AV control unit		Ground	Continuity
Connector	Terminal		
M84	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. Refer to [SR-17. "Removal and Installation"](#).

#### 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	
M84	6	M84	15	5.0 V

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Replace AV control unit. Refer to [AV-333. "Removal and Installation"](#).

#### 4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-315. "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace steering switch. Refer to [AV-346. "Removal and Installation"](#).

### Component Inspection

INFOID:000000005451420

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 WITH NAVIGATION]

## < DTC/CIRCUIT DIAGNOSIS >

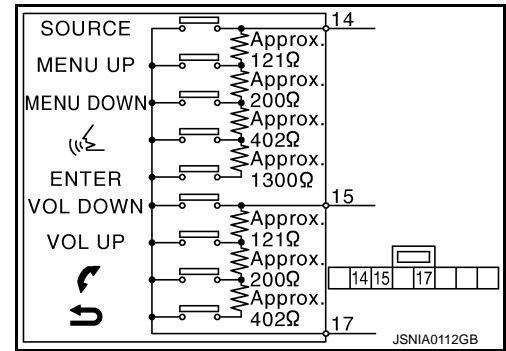
### Standard

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



# STEERING SWITCH SIGNAL B CIRCUIT

[BOSE AUDIO WITH NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

## STEERING SWITCH SIGNAL B CIRCUIT

### Description

INFOID:000000005451421

Transmits the steering switch signal to AV control unit.

### Diagnosis Procedure

INFOID:000000005451422

#### 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	
M84	16	M36	31	Existed

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

AV control unit		Ground	Continuity
Connector	Terminal		
M84	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. Refer to [SR-17. "Removal and Installation"](#).

#### 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	
M84	16	M84	15	5.0 V

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Replace AV control unit. Refer to [AV-333. "Removal and Installation"](#).

#### 4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-317. "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace steering switch. Refer to [AV-346. "Removal and Installation"](#).

### Component Inspection

INFOID:000000005451423

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

[BOSE AUDIO WITH NAVIGATION]

## < DTC/CIRCUIT DIAGNOSIS >

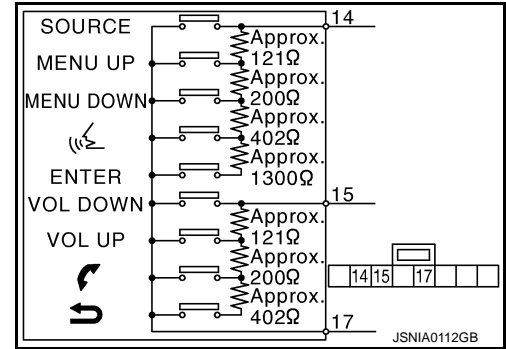
### Standard

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



# STEERING SWITCH GROUND CIRCUIT

[BOSE AUDIO WITH NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

## STEERING SWITCH GROUND CIRCUIT

### Description

INFOID:000000005451424

Transmits the steering switch signal to AV control unit.

### Diagnosis Procedure

INFOID:000000005451425

#### 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	
M84	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. Refer to [SR-17, "Removal and Installation"](#).

#### 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		
M84	15		Not existed

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Replace AV control unit. Refer to [AV-333, "Removal and Installation"](#).

#### 4.CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-319, "Component Inspection"](#).

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace steering switch. Refer to [AV-346, "Removal and Installation"](#).

### Component Inspection

INFOID:000000005451426

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

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AV

# STEERING SWITCH GROUND CIRCUIT

[BOSE AUDIO WITH NAVIGATION]

## < DTC/CIRCUIT DIAGNOSIS >

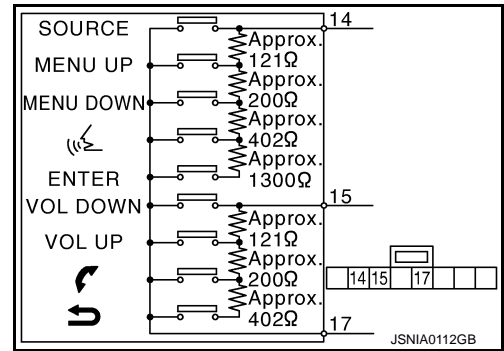
### Standard

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





# MULTI AV SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## SYMPTOM DIAGNOSIS

### MULTI AV SYSTEM SYMPTOMS

#### Symptom Table

INFOID:000000005451427

#### RELATED TO NAVIGATION

#### Trouble Diagnosis Chart by Symptom

Symptoms	Check items	Probable malfunction location
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-231, "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-307, "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-220, "On Board Diagnosis Function"</a> .
Fuel economy display is abnormal.	There is malfunction in the CONSULT-III self-diagnosis result.	Perform detected DTC self-diagnosis. Refer to <a href="#">AV-231, "CONSULT - III Function (MULTI AV)"</a> .
	There is no malfunction in the self-diagnosis results.	Ignition signal circuit malfunction. Refer to <a href="#">AV-307, "AV CONTROL UNIT : Diagnosis Procedure"</a> .
Start of the AV control unit takes time.	—	Room lamp timer control circuit malfunction.
Guide sound is not heard or too low.	On the setting display select "system sound (guide sound volume, etc.)," and confirm that guide sound is ON.	Voice guidance signal circuit malfunction.

#### RELATED TO HANDS-FREE PHONE

- Check that the cellular phone is a corresponding type (Bluetooth™ correspondence) 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, the following procedure allows the technician to judge which device has a malfunction.

- Turn on the cellular phone, not connecting Bluetooth™ communication.
- Start CONSULT-III, then start Windows®.
- Set CONSULT-III near the cellular phone.

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# MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]

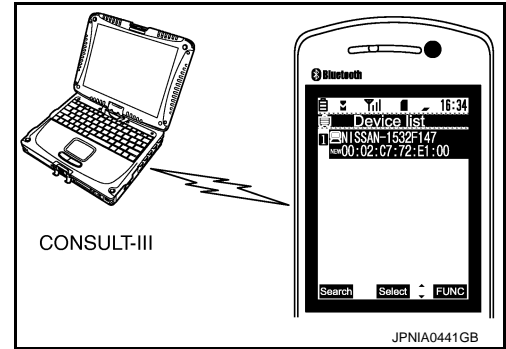
## < SYMPTOM DIAGNOSIS >

4. When operating Bluetooth™ registration by cellular phone, check if CONSULT-III\* is displayed on the device name. (If another Bluetooth™ device is located near the cellular phone, the name of the device will also be displayed.)

**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.



### 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. Replace AV control unit. Refer to <a href="#">AV-333. "Removal and Installation"</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. Replace AV control unit. Refer to <a href="#">AV-333. "Removal and Installation"</a> .
The other 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. Replace AV control unit. Refer to <a href="#">AV-333. "Removal and Installation"</a> .
Originating sound is not heard by the other party with hands-free phone communication.	Sound operation function is normal.	AV control unit malfunction. Replace AV control unit. Refer to <a href="#">AV-333. "Removal and Installation"</a> .
	Sound operation function does not work.	Microphone signal circuit malfunction. Refer to <a href="#">AV-313. "Diagnosis Procedure"</a> .
The system cannot be operated.	Coupe models <ul style="list-style-type: none"> <li>• The voice recognition can be controlled.</li> <li>• Steering switch's "VOL UP", "VOL DOWN", "↶" switch works, but "↷" it does not work.</li> </ul> Roadster models <ul style="list-style-type: none"> <li>• The retractable soft top is fully closed.</li> <li>• The voice recognition can be controlled.</li> <li>• Steering switch's "VOL UP", "VOL DOWN", "↶" switch works, but "↷" it does not work.</li> </ul>	Steering switch malfunction.
	Coupe models <ul style="list-style-type: none"> <li>• The retractable soft top is fully closed.</li> <li>• The voice recognition can be controlled.</li> <li>• Steering switch's "↷", "VOL UP", "VOL DOWN", "↶" switches do not work.</li> </ul> Roadster models <ul style="list-style-type: none"> <li>• The retractable soft top is fully closed.</li> <li>• The voice recognition can be controlled.</li> <li>• Steering switch's "↷", "VOL UP", "VOL DOWN", "↶" switches do not work.</li> </ul>	Steering switch signal B circuit malfunction. Refer to <a href="#">AV-317. "Diagnosis Procedure"</a> .
	All steering switches do not work.	Steering switch ground circuit malfunction. Refer to <a href="#">AV-319. "Diagnosis Procedure"</a> .

## RELATED TO RGB IMAGE

# MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]

< SYMPTOM DIAGNOSIS >

## Trouble Diagnosis Chart by Symptom

Symptoms	Check items	Probable malfunction location
RGB image is not shown.	—	RGB digital image signal circuit malfunction.

## 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-333, "Removal and Installation"</a> .
	Voice does not sound at "Voice Microphone Test" of Confirmation/Adjustment mode.	Microphone circuit malfunction. Refer to <a href="#">AV-313, "Diagnosis Procedure"</a> .
The voice cannot be controlled (Voice control screen is not displayed).	<ul style="list-style-type: none"> <li>Steering switch's "SOURCE", "MENU UP", "MENU DOWN", "ENTER" switch works, but "☞" it does not work.</li> <li>Hands-free phone system cannot be operated.</li> </ul>	Roof status signal circuit malfunction.
	<ul style="list-style-type: none"> <li>Steering switch's "SOURCE", "MENU UP", "MENU DOWN", "ENTER" switch works, but "☞" it does not work.</li> <li>Hands-free phone system can be operated.</li> </ul>	Steering switch malfunction.
	Steering switch's "SOURCE", "MENU UP", "MENU DOWN", "☞", "ENTER" switches do not work.	Steering switch signal A circuit malfunction. Refer to <a href="#">AV-315, "Diagnosis Procedure"</a> .
	All steering switches do not work.	Steering switch ground circuit malfunction. Refer to <a href="#">AV-319, "Diagnosis Procedure"</a> .

## RELATED TO AUDIO

Symptoms	Check items	Possible malfunction location / Action to take
The CD cannot be removed.	—	Disk eject signal circuit malfunction between AV control unit and preset switch. Refer to <a href="#">AV-312, "Diagnosis Procedure"</a> .
Audio sound is not heard.	No sound from all speakers.	<ul style="list-style-type: none"> <li>BOSE amp. ON signal circuit.</li> <li>BOSE amp. power supply and ground circuit.</li> </ul> Refer to <a href="#">AV-308, "BOSE AMP. : Diagnosis Procedure"</a> .
	There is no sound from the woofer. (Coupe models)	<ul style="list-style-type: none"> <li>Woofer amp. power supply and ground circuit.</li> <li>Sound signal woofer circuit between BOSE amp. and woofer.</li> <li>Woofer amp. ON signal circuit between BOSE amp. and woofer.</li> </ul>
	There is no sound from the rear woofer. (Roadster models)	Sound signal rear woofer circuit between BOSE amp. and rear woofer.
	There is sound only from specific places (RH front, RH rear, LH front and LH rear).	Sound signal circuit of suspect system.

# MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]

< SYMPTOM DIAGNOSIS >

Symptoms	Check items	Possible malfunction location / Action to take
Satellite radio is not received.	There is malfunction in the CONSULT-III self-diagnosis result.	Perform CONSULT-III self-diagnosis. Refer to <a href="#">AV-231, "CONSULT - III Function (MULTI AV)"</a> .
	There is no malfunction in the CONSULT-III self-diagnosis result.	Perform the following inspection procedure. 1. Check satellite radio antenna mounting nut (coupe models) or antenna base mounting nut (roadster models) for looseness. <b>NOTE:</b> Tightening torque: 6.5 N·m (0.66 kg·m, 58 in·lb) 2. Visually check for satellite radio antenna feeder.
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 USB

### NOTE:

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

### Trouble Diagnosis Chart by Symptom

Symptoms	Check items	Possible malfunction location / Action to take
iPod® or USB memory can not be recognized.	—	<ul style="list-style-type: none"> <li>USB harness malfunction.</li> <li>USB connector malfunction.</li> </ul>

iPod® is a trademark of Apple inc., registered in the U.S. and other countries.

## RELATED TO DVD MODE

Symptoms	Check items	Probable malfunction location
The DVD cannot be removed.	—	Disk eject signal circuit malfunction between AV control unit and preset switch. Refer to <a href="#">AV-312, "Diagnosis Procedure"</a> .
DVD image is not displayed.	—	Perform CONSULT-III self-diagnosis. Refer to <a href="#">AV-231, "CONSULT - III Function (MULTI AV)"</a> . When detecting no malfunction in those components, the following items are a possible cause. <ul style="list-style-type: none"> <li>Composite image signal circuits malfunction. Refer to <a href="#">AV-310, "Diagnosis Procedure"</a>.</li> </ul>
Audio sound is not heard.	No sound from all speakers.	<ul style="list-style-type: none"> <li>BOSE amp. ON signal circuit.</li> <li>BOSE amp. power supply and ground circuit. Refer to <a href="#">AV-308, "BOSE AMP. : Diagnosis Procedure"</a>.</li> </ul>
	Sound is heard only from specific places.	Sound signal circuit of suspect system.

## RELATED TO STEERING SWITCH

### Trouble Diagnosis Chart by Symptom

Symptoms	Probable malfunction location
None of the steering switch operations work.	Steering switch ground circuit malfunction. Refer to <a href="#">AV-319, "Diagnosis Procedure"</a> .
Only specified switch cannot be operated.	Steering switch malfunction.
Steering switch's "SOURCE", "MENU UP", "MENU DOWN", "⏪", "ENTER" switches do not work.	Steering switch signal A circuit malfunction. Refer to <a href="#">AV-315, "Diagnosis Procedure"</a> .
Steering switch's "⏩", "VOL UP", "VOL DOWN", "⏸" switches do not work.	Steering switch signal B circuit malfunction. Refer to <a href="#">AV-317, "Diagnosis Procedure"</a> .

## RELATED TO AUXILIARY INPUT

### NOTE:

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

# MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]

< SYMPTOM 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 circuit.
Image is not displayed when AUX mode is selected.	DVD image is displayed.	AUX image signal circuit malfunction. Refer to <a href="#">AV-311</a> . "Diagnosis Procedure".
	DVD image is not displayed.	Composite image signal circuit malfunction. Refer to <a href="#">AV-310</a> . "Diagnosis Procedure".

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## NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

### NORMAL OPERATING CONDITION

#### Description

INFOID:000000005451428

#### 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 "☀/☾" to turn on the display.
	The interior of the vehicle becomes the a little less than 80°C (176°F) or high temperature, and the protection of the display acts, and a display is turned off.	Wait until the interior of the vehicle has cooled down.
Screen not clear.	Contrast setting is not appropriate.	Adjust the contrast of the display.
No voice guidance is available. Or 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 high.	Wait until the interior of the vehicle has cooled down.
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

## NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Symptom	Possible cause	Possible solution
The system does not recognize your command. or 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.	Lower the fan speed as necessary as voice commands can be recognized more easily.	
The system cannot be operated. (roadster models)	The retractable soft top is not closed properly.	<ul style="list-style-type: none"> <li>• Close the retractable soft top.</li> <li>• Open and close the retractable soft top before operating the system.</li> <li>• Check if the retractable soft top warning lamp is lit in combination meter.</li> </ul>

### 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.

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. <b>NOTE:</b> 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.

## NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

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). <b>NOTE:</b> 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, AAC, M4A) 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/AAC/M4A files on a CD, only the music CD files (CD-DA data) will be played.
	Files with extensions other than ".MP3", ".WMA", ".AAC", ".M4A", ".mp3", ".wma", ".aac" or ".m4a" 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/AAC/M4A 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.	If there are many folder or file levels on the MP3/WMA/AAC/M4A 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.



# NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Symptom	Cause and Counter measure
Move immediately to the next song when playing	When a non-MP3/WMA/AAC file has been given an extension of “.MP3”, “.WMA”, “.AAC”, “.M4A”, “.mp3”, “.wma”, “.aac” or “.m4a” 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 DVD

Symptom	Possible cause	Possible solution
Not working as operated	Some operations may be rejected or may not function as intended because of the manufacturer's intent, depending on DVD.	This is not a malfunction.
Operation not accepted	If a requested operation is prohibited, then a message is displayed on the screen. (Message display depends on DVD.)	This is not a malfunction.
DVD can not be played	Check that the DVD is inserted in the right place.	Upturn the DVD (facing the title upward).
	Check if there is condensation inside the player.	wait until the condensation is gone (about 1 hour) before using the player.
	DVD menu is displayed.	Select item to touch “ENTER”
	Insertion of a DVD with a different region code.	DVDs with a different region code can not be played. Check DVD.
	Some DVD softwares may not be played because not all DVD softwares fully comply in the standard.	This is not a malfunction.
Interruption during playback or flicker in the display	Check that the DVD has no scratches and dirt.	Errors may not be corrected depending on the size of scratches.
Low sound quality		Wipe and clean the dirt on the disc.
Distortion in picture	In the process of fast-forward or fast-reverse.	This is not a malfunction.
Subtitles not shown	Subtitle setting is OFF.	Set subtitle.
	Subtitle is not included in the software.	Check DVD.
Not played in set language	If a language is not included in the DVD, then the DVD is played in a recommended language.	Check DVD.
Not played with set subtitle	If a set subtitle is not included in the DVD, then the DVD is played with a recommended subtitle.	Check DVD.
Subtitle and language not selectable (not played with set subtitle or in set language)	The DVD is not multilanguage-capable.	The inclusion of the number of languages depends on DVD. Languages may be selectable on the Menu screen. Check DVD.
	The DVD has a priority language or setting.	If the DVD has a priority language or settings, then settings changed with this device are not reflected.
Angle unchangeable	Plural angles are not recorded in the software.	Check if the DVD is multi-angle-capable.
Unusual screen display	Display mode to the output aspect ratio for the DVD software is inappropriate.	Switch to the appropriate display mode.
Playback time is indicated, but no sound comes out.	Playback of Mix mode Truck 1. (Mix mode: Format including Truck 1 with data other than music and Trucks from Truck 2 with music data.)	Play music data included in trucks from Truck 2.

## NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

### 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.
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 30 km/h (19 MPH) for about 30 minutes] to automatically correct the vehicle icon position. If this does not correct the vehicle icon position, contact an NISSAN (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.

## NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Symptom	Possible cause	Possible solution	
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.	A
	The starting point and destination are too close.	Set a more distant destination.	B
	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.	C
	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.	D
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.	E
	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.	F
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.	G
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.	H

### 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.	J
	The vehicle has deviated from the suggested route.	Go back to the suggested route or request route calculation again	K
	Voice guide is set to off.	Turn on voice guidance.	
	Route guidance is set to off.	Turn on voice guidance.	L
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.	M

### 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.	AV
	You are in an area where traffic information is not available	Scroll to an area where traffic information is available	O
	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.	P
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.	

## NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Symptom	Possible cause	Possible solution
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.

# AV CONTROL UNIT

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## REMOVAL AND INSTALLATION

### AV CONTROL UNIT

#### Exploded View

INFOID:000000005451429

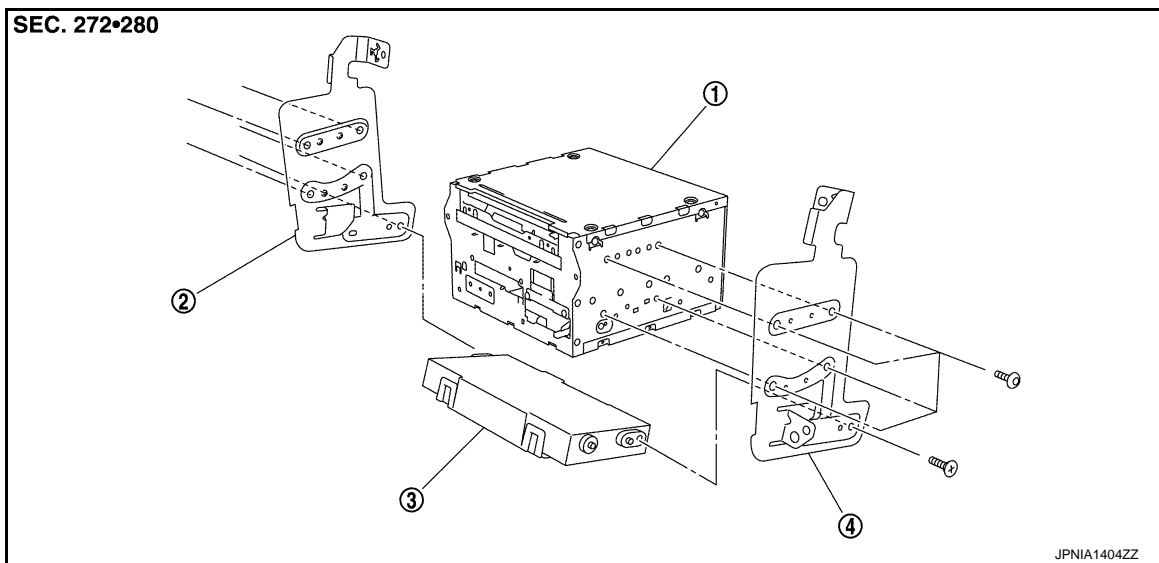
#### CAUTION:

Before replacing AV control unit, perform "READ CONFIGURATION" to save or print current vehicle specification. For details, refer to [AV-270. "CONFIGURATION \(AV CONTROL UNIT\) : Description"](#).

#### REMOVAL

Refer to [IP-12. "Exploded View"](#).

#### DISASSEMBLY



1. AV control unit
2. Bracket LH
3. A/C auto amp.
4. Bracket RH

#### Removal and Installation

INFOID:000000005451430

#### REMOVAL

#### CAUTION:

Before replacing AV control unit, perform "READ CONFIGURATION" to save or print current vehicle specification. For details, refer to [AV-270. "CONFIGURATION \(AV CONTROL UNIT\) : Description"](#).

1. Remove preset switch. Refer to [AV-345. "Exploded View"](#)
2. Remove AV control unit with A/C auto amp. as a single unit from the body.
3. Remove bracket screws, and then remove AV control unit.

#### INSTALLATION

Install in 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.
- Be sure to perform "WRITE CONFIGURATION" when replacing AV control unit.

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## FRONT DISPLAY UNIT

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

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### FRONT DISPLAY UNIT

#### Exploded View

INFOID:000000005451431

Refer to [IP-12, "Exploded View"](#).

#### Removal and Installation

INFOID:000000005451432

#### REMOVAL

1. Remove cluster lid D. Refer to [IP-12, "Exploded View"](#).
2. Remove front display unit with bracket as a single unit.

#### INSTALLATION

Install in the reverse order of removal.

# FRONT DOOR SPEAKER

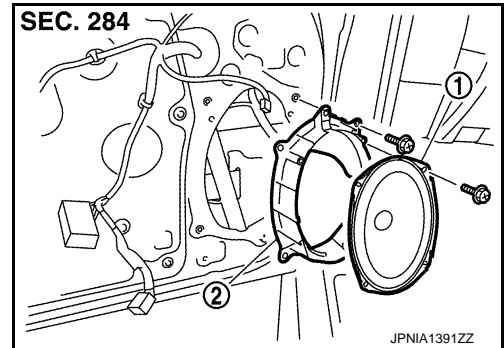
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## FRONT DOOR SPEAKER

### Exploded View

INFOID:000000005510461



1. Front door speaker
2. Speaker bracket

### Removal and Installation

INFOID:000000005510462

#### REMOVAL

1. Remove door finisher. Refer to [INT-43. "Exploded View"](#).
2. Remove front door speaker screws, then disconnect front door speaker connector and remove front door speaker.

#### INSTALLATION

Install in the reverse order of removal.

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# TWEETER

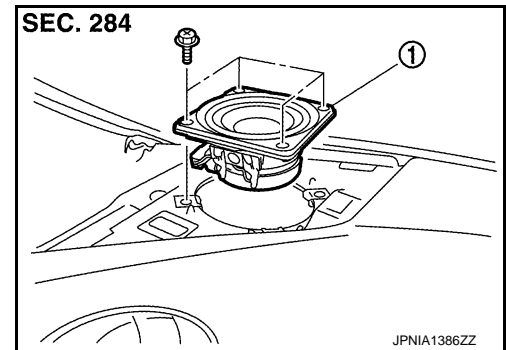
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## TWEETER

Exploded View

INFOID:000000005510463



1. Tweeter

## Removal and Installation

INFOID:000000005510464

### REMOVAL

1. Remove speaker grille. Refer to [IP-12. "Exploded View"](#).
2. Remove tweeter screws, then lift up tweeter, disconnect connector and remove tweeter.

### INSTALLATION

Install in the reverse order of removal.



# REAR SPEAKER

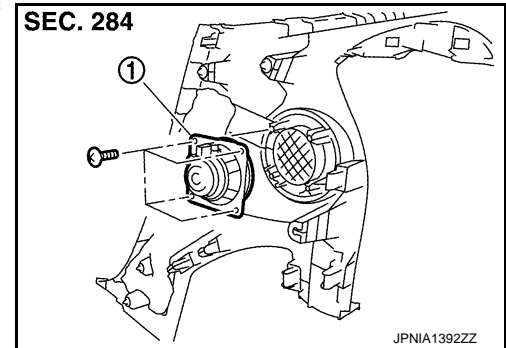
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## REAR SPEAKER

### Exploded View

INFOID:000000005510465



1. Rear speaker

### Removal and Installation

INFOID:000000005510466

#### REMOVAL

1. Remove rear side finisher. Refer to [INT-17, "Exploded View"](#) (coupe models) or [INT-52, "REAR SIDE FINISHER : Exploded View"](#) (roadster models).
2. Remove rear speaker screws, then remove rear speaker.

#### INSTALLATION

Install in the reverse order of removal.

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# WOOFER

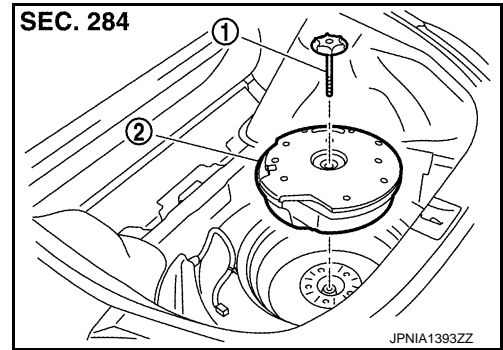
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## WOOFER

### Exploded View

INFOID:000000005510467



1. Clamp
2. Woofer

### Removal and Installation

INFOID:000000005510468

#### REMOVAL

1. Remove luggage spacer. Refer to [INT-83. "Exploded View"](#).
2. Remove clamp, then disconnect woofer connector and remove the woofer.

#### INSTALLATION

Install in the reverse order of removal.

## REAR WOOFER

### Removal and Installation

INFOID:000000005451442

#### REMOVAL

1. Remove the mounting clip on the front side of the storage room finisher and the soft top bumper rubber. Refer to [RF-225, "STORAGE ROOM FINISHER : Removal and Installation"](#).
2. Turn up the storage room finisher to obtain work space.
3. Remove rear woofer bracket.
4. Remove the screw and disconnect the connector to remove the rear woofer.

#### INSTALLATION

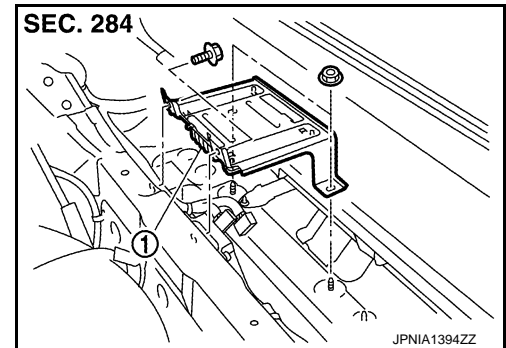
Install in the reverse order of removal.

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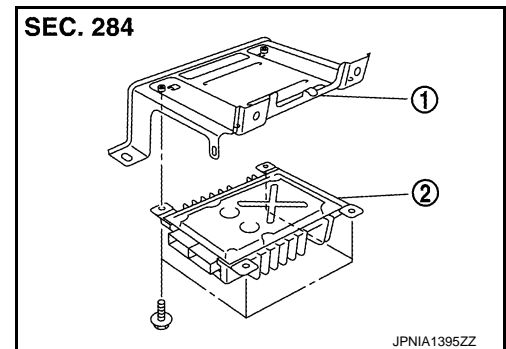
AV

**BOSE AMP.****COUPE****COUPE : Exploded View**

INFOID:000000005510469

**REMOVAL**

1. BOSE amp.

**DISASSEMBLY**

1. Bracket
2. BOSE amp.

**COUPE : Removal and Installation**

INFOID:000000005510470

**REMOVAL**

1. Remove luggage floor spacer front. Refer to [INT-28, "Exploded View"](#).
2. Disconnect BOSE amp. connector, remove BOSE amp. with bracket as a single unit from body.
3. Remove BOSE amp. bracket screws to remove BOSE amp.

**INSTALLATION**

Install in the reverse order of removal.

**ROADSTER****ROADSTER : Removal and Installation**

INFOID:000000005510490

**REMOVAL**

1. Remove the mounting clip on the front side of the storage room finisher and the soft top bumper rubber. Refer to [RF-225, "STORAGE ROOM FINISHER : Removal and Installation"](#).
2. Turn up the storage room finisher to obtain work space.
3. Remove storage room spacer. Refer to [RF-225, "STORAGE ROOM FINISHER : Exploded View"](#).
4. Disconnect BOSE amp. connector, remove BOSE amp. with bracket as a single unit from body.
5. Remove BOSE amp. bracket screws to remove BOSE amp.

**INSTALLATION**

# BOSE AMP.

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

---

Install in the reverse order of removal.

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## ANTENNA AMP.

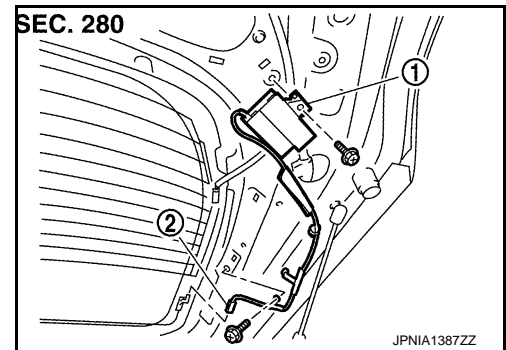
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

### ANTENNA AMP.

#### Exploded View

INFOID:000000005510473



1. Antenna amp.
2. Connector

#### Removal and Installation

INFOID:000000005510474

##### REMOVAL

1. Remove back door finisher side. Refer to [INT-30, "Exploded View"](#).
2. Disconnect connector and remove screw, then remove antenna amp.

##### INSTALLATION

Install in the reverse order of removal.

# ANTENNA BASE

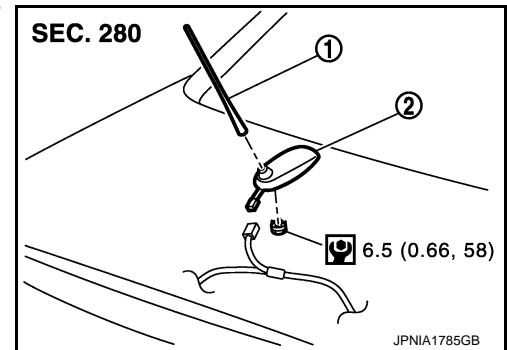
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## ANTENNA BASE

### Exploded View

INFOID:000000005451449



1. Antenna rod
2. Antenna base

Refer to [GI-4, "Components"](#) for symbols in the figure.

### Removal and Installation

INFOID:000000005451450

#### REMOVAL

1. Remove trunk lid finisher inner. Refer to [INT-99, "Exploded View"](#).
2. Remove antenna base mounting nut, disconnect the antenna base connector.
3. Remove antenna base.

#### INSTALLATION

Installation is the reverse order of removal.

#### **CAUTION:**

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

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# MULTIFUNCTION SWITCH

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## MULTIFUNCTION SWITCH

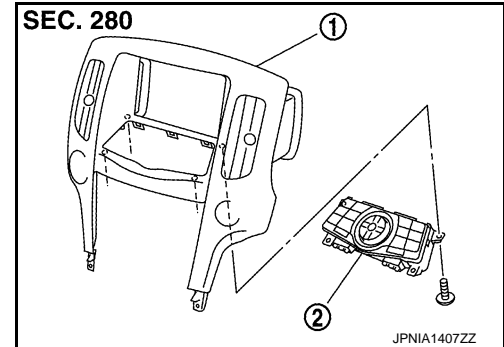
### Exploded View

INFOID:000000005510475

#### REMOVAL

Refer to [IP-12, "Exploded View"](#).

#### DISASSEMBLY



1. Cluster lid C
2. Multifunction switch

### Removal and Installation

INFOID:000000005510476

#### REMOVAL

1. Remove cluster lid C. Refer to [IP-12, "Exploded View"](#).
2. Remove multifunction switch screws, then remove multifunction switch from cluster lid C.

#### INSTALLATION

Install in the reverse order of removal.



# PRESET SWITCH

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## PRESET SWITCH

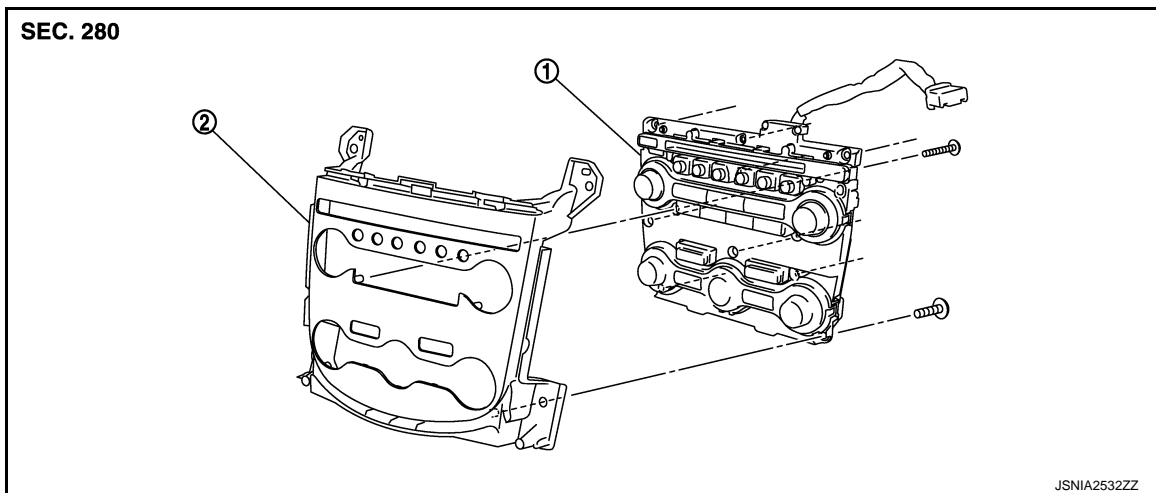
### Exploded View

INFOID:000000005510477

#### REMOVAL

Refer to [IP-12. "Exploded View"](#).

#### DISASSEMBLY



1. Preset switch

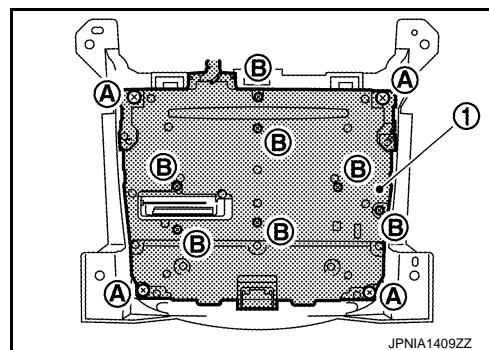
2. Cluster lid C finisher

### Removal and Installation

INFOID:000000005510478

#### REMOVAL

1. Remove cluster lid C. Refer to [IP-12. "Exploded View"](#).
2. Remove preset switch with cluster lid C finisher as a single unit from the body.
3. Remove preset switch screws (A) (B) to remove preset switch (1) from cluster lid C finisher.



#### INSTALLATION

Install in the reverse order of removal.

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## STEERING SWITCH

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

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### STEERING SWITCH

#### Exploded View

INFOID:000000005510479

Refer to [ST-14. "Exploded View"](#).

#### Removal and Installation

INFOID:000000005510480

#### REMOVAL

Refer to [ST-14. "Exploded View"](#).

#### INSTALLATION

Install in the reverse order of removal.

## USB CONNECTOR

### Removal and Installation

INFOID:000000005451458

#### REMOVAL

1. Remove center console. Refer to [IP-23, "Exploded View"](#).
2. Push the pawl from the back of center console to remove USB connector.

#### INSTALLATION

Install in the reverse order of removal.

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# AUXILIARY INPUT JACKS

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## AUXILIARY INPUT JACKS

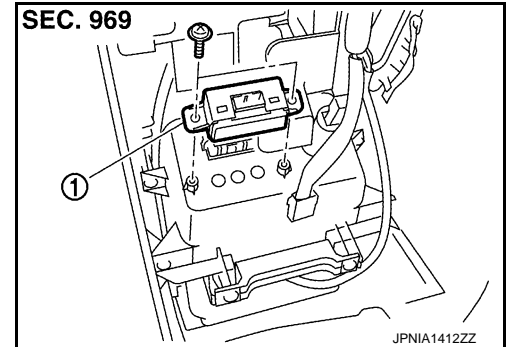
### Exploded View

INFOID:000000005510481

#### REMOVAL

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

#### DISASSEMBLY



1. Auxiliary input jacks

### Removal and Installation

INFOID:000000005510482

#### REMOVAL

1. Remove center console. Refer to [IP-23, "Exploded View"](#).
2. Remove screws to remove auxiliary input jacks from the center console.

#### INSTALLATION

Install in the reverse order of removal.

## MICROPHONE

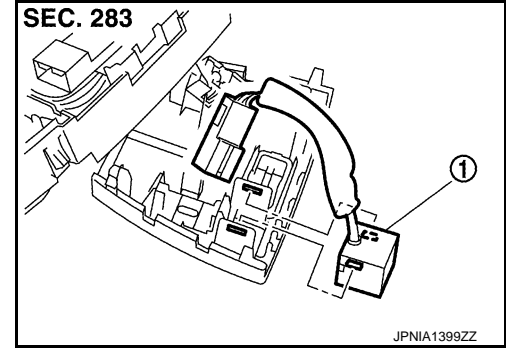
### Exploded View

INFOID:000000005510483

#### REMOVAL

Refer to [INT-83, "Exploded View"](#).

#### DISASSEMBLY



1. Microphone

### Removal and Installation

INFOID:000000005510484

#### REMOVAL

1. Remove map lamp. Refer to [INL-54, "Exploded View"](#) (coupe models), or [INL-118, "Exploded View"](#) (roadster models).
2. Press the pawl to remove microphone from map lamp.

#### INSTALLATION

Install in the reverse order of removal.

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# GPS ANTENNA

< REMOVAL AND INSTALLATION >

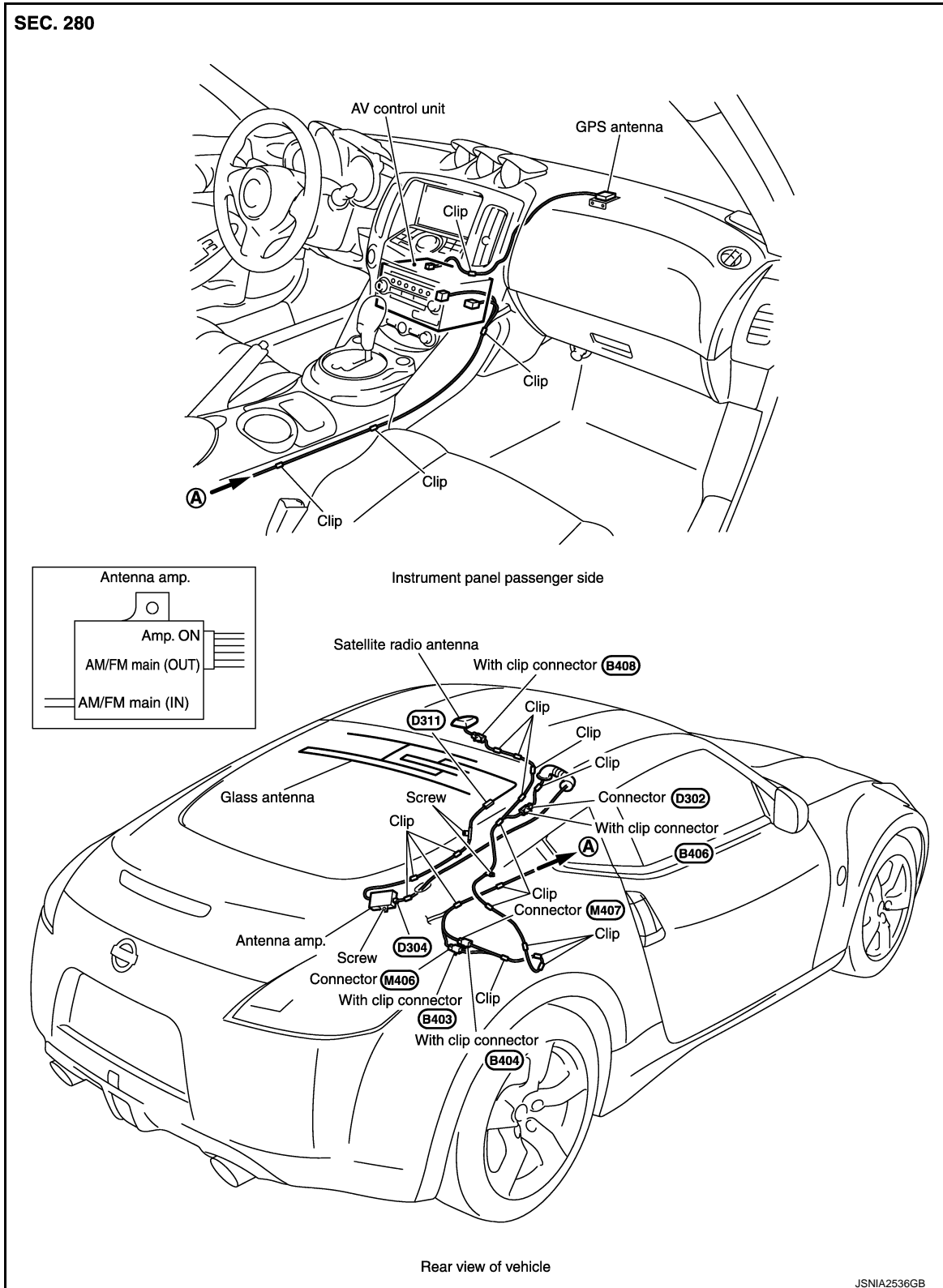
[BOSE AUDIO WITH NAVIGATION]

## GPS ANTENNA

### Feeder Layout

INFOID:000000005510485

### COUPE MODELS

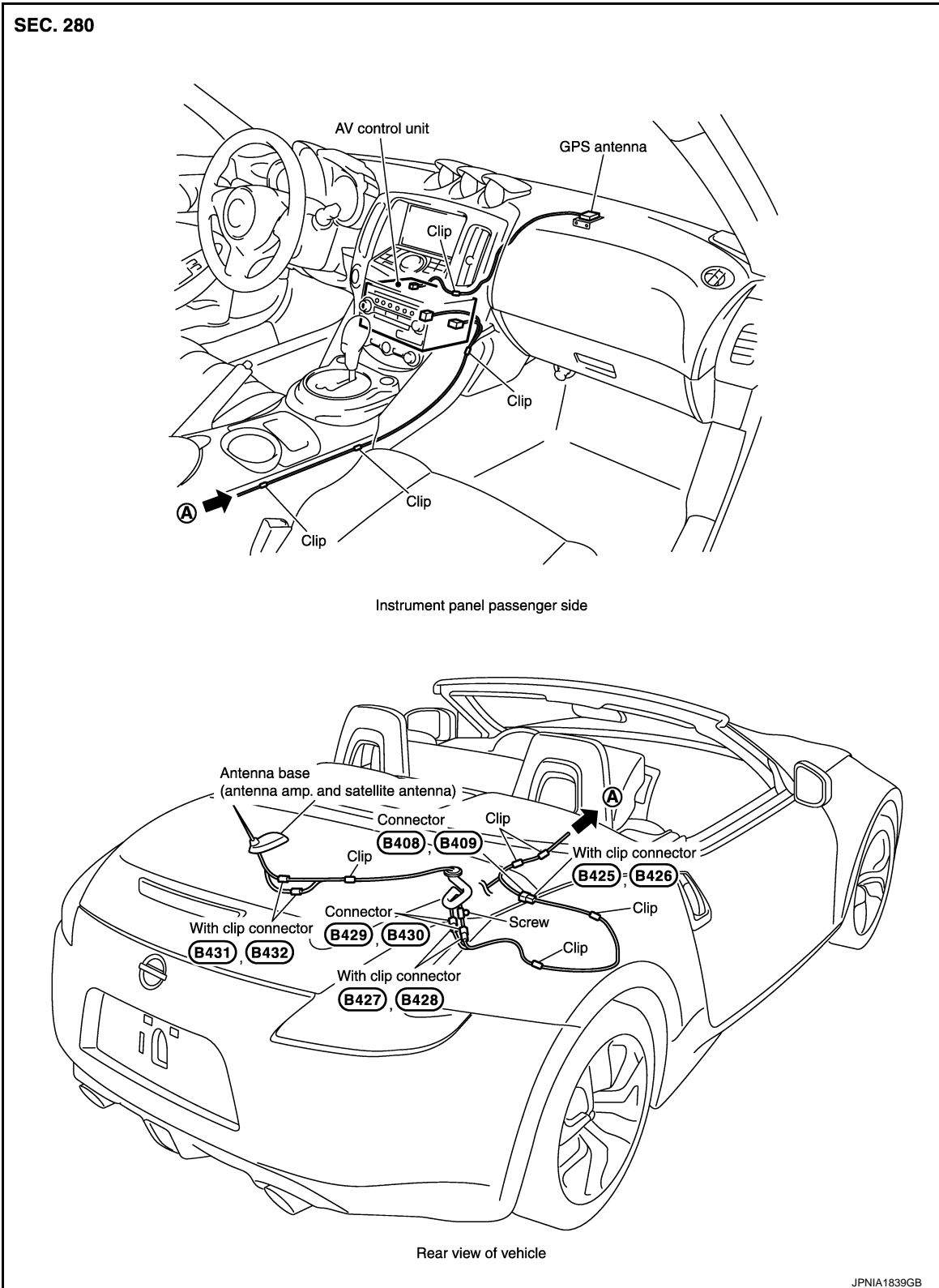


# GPS ANTENNA

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

ROADSTER MODELS



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## Removal and Installation

INFOID:000000005510486

### REMOVAL

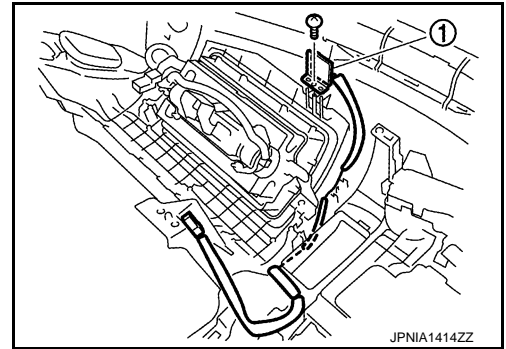
1. Remove installment panel. Refer to [IP-12, "Exploded View"](#).

## GPS ANTENNA

### < REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

2. Remove screw to remove GPS antenna (1) from instrument panel.



JPNIA1414ZZ

### INSTALLATION

Install in the reverse order of removal.



# SATELLITE RADIO ANTENNA

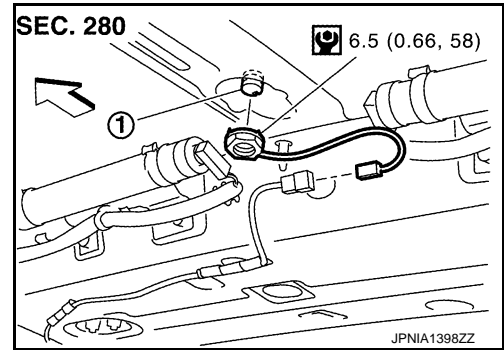
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

## SATELLITE RADIO ANTENNA

### Exploded View

INFOID:000000005510487



1. Satellite radio antenna

←: Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

### Removal and Installation

INFOID:000000005510488

#### REMOVAL

1. Remove rear pillar finisher (LH/RH). Refer to [INT-17, "Exploded View"](#).
2. Pull down headlining (rear side) and obtain space for work between vehicle and headlining. Refer to [INT-25, "Exploded View"](#).
3. Disconnect satellite radio antenna connector.
4. Remove satellite radio antenna mounting nut, then remove satellite radio antenna from roof panel.

#### INSTALLATION

Install in the reverse order of removal.

#### **CAUTION:**

- **Never bend headlining when pull down headlining (rear side).**
- **When satellite radio antenna mounting nut tightening torque is loose, be careful about tightening torque. Antenna sensitivity becomes poor, and when it is excessive, roof panel may become deformed.**

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# ANTENNA FEEDER

< REMOVAL AND INSTALLATION >

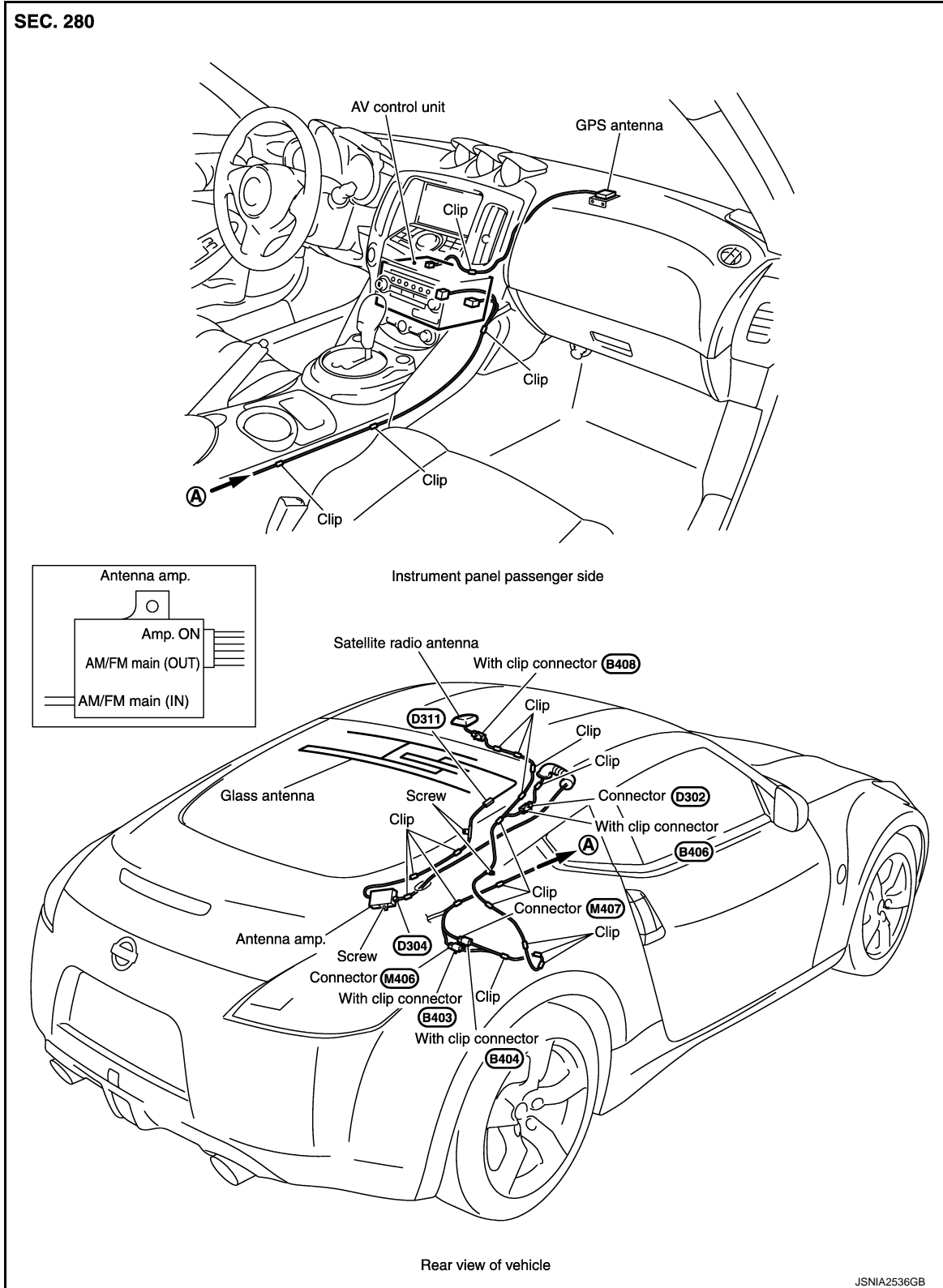
[BOSE AUDIO WITH NAVIGATION]

## ANTENNA FEEDER

### COUPE

### COUPE : Feeder Layout

INFOID:000000005451471



### ROADSTER

# ANTENNA FEEDER

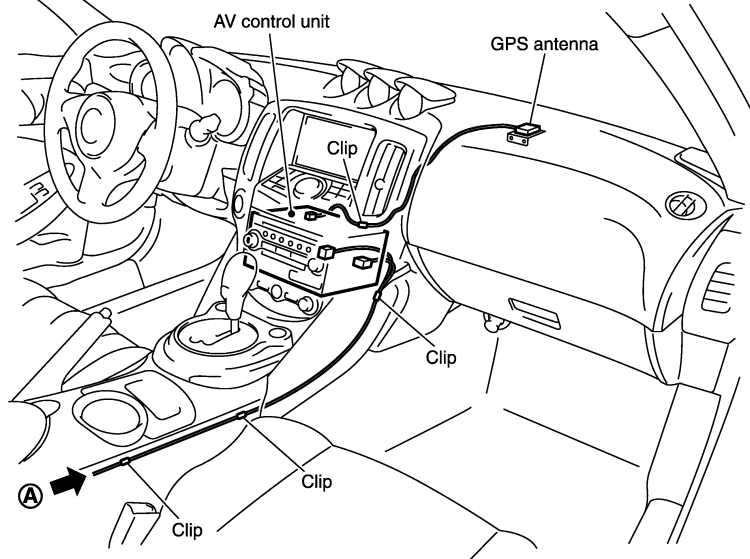
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

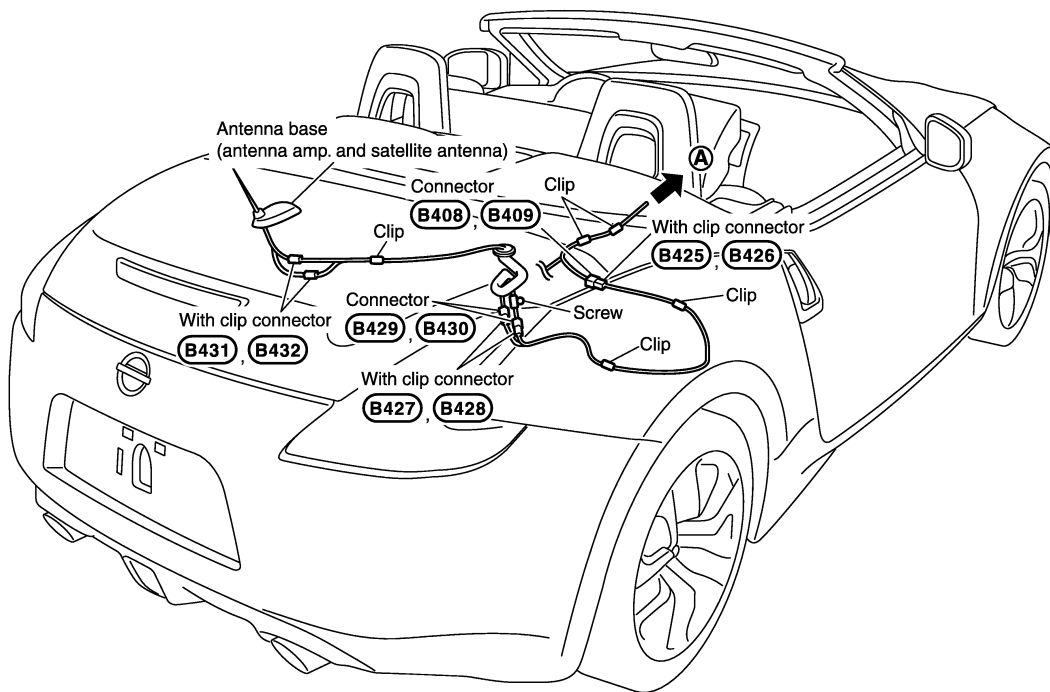
## ROADSTER : Feeder Layout

INFOID:000000005451472

SEC. 280



Instrument panel passenger side



Rear view of vehicle

JPNIA1839GB

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