

SECTION **AV**

AUDIO, VISUAL & NAVIGATION SYSTEM

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

CONTENTS

<p>BASE AUDIO WITHOUT NAVIGATION</p> <p>BASIC INSPECTION13</p> <p>DIAGNOSIS AND REPAIR WORKFLOW13 Work Flow 13</p> <p>INSPECTION AND ADJUSTMENT15</p> <p>ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL 15 ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description 15 ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement 15</p> <p>ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT 15 ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description 15 ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement 15</p> <p>PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT 15 PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Description 15 PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement 15</p> <p>FUNCTION DIAGNOSIS 16</p> <p>MULTI AV SYSTEM 16 System Diagram 16 System Description 17 Component Parts Location 18 Component Description 19</p> <p>AUDIO SYSTEM 21 System Diagram 21 System Description 21</p>	<p> Component Parts Location22 Component Description23</p> <p>REAR VIEW MONITOR SYSTEM 24 System Diagram 24 System Description 24 Component Parts Location 26 Component Description 26</p> <p>DIAGNOSIS SYSTEM (AV CONTROL UNIT) ... 28 Diagnosis Description 28 CONSULT-III Function (MULTI AV) 37</p> <p>COMPONENT DIAGNOSIS 40</p> <p>U1000 CAN COMM CIRCUIT 40 Description 40 DTC Logic 40 Diagnosis Procedure 40</p> <p>U1010 CONTROL UNIT (CAN) 41 Description 41 DTC Logic 41 Diagnosis Procedure 41</p> <p>U1310 AV CONTROL UNIT 42 Description 42 DTC Logic 42</p> <p>U1200 AV CONTROL UNIT 43 Description 43 DTC Logic 43</p> <p>U1216 AV CONTROL UNIT 44 Description 44 DTC Logic 44</p> <p>U1243 DISPLAY UNIT 45 Description 45 DTC Logic 45 Diagnosis Procedure 45</p> <p>U1250 CAMERA CONTROL UNIT 47</p>
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Description	47	Description	62
DTC Logic	47	Diagnosis Procedure	62
Diagnosis Procedure	47		
U1255 SATELLITE RADIO TUNER	48	DISK EJECT SIGNAL CIRCUIT	64
Description	48	Description	64
DTC Logic	48	Diagnosis Procedure	64
Diagnosis Procedure	48		
U1300 AV COMM CIRCUIT	50	REAR VIEW CAMERA IMAGE SIGNAL CIRCUIT	65
Description	50	Description	65
		Diagnosis Procedure	65
POWER SUPPLY AND GROUND CIRCUIT	51		
AV CONTROL UNIT	51	REAR VIEW CAMERA POWER SUPPLY	66
AV CONTROL UNIT : Diagnosis Procedure	51	Description	66
		Diagnosis Procedure	66
DISPLAY UNIT	51		
DISPLAY UNIT : Diagnosis Procedure	51	CAMERA IMAGE SIGNAL CIRCUIT (CAMERA CONTROL UNIT TO AV CONTROL UNIT)	67
		Description	67
MULTIFUNCTION SWITCH	52	Diagnosis Procedure	67
MULTIFUNCTION SWITCH : Diagnosis Procedure	52		
		COMPOSITE IMAGE SIGNAL CIRCUIT	68
CAMERA CONTROL UNIT	53	Description	68
CAMERA CONTROL UNIT : Diagnosis Procedure	53	Diagnosis Procedure	68
SATELLITE RADIO TUNER	53	COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)	69
SATELLITE RADIO TUNER : Diagnosis Procedure	54	Description	69
		Diagnosis Procedure	69
RGB (R: RED) SIGNAL CIRCUIT	55		
Description	55	REQUEST SIGNAL CIRCUIT (SAT→CONT) ...	71
Diagnosis Procedure	55	Description	71
		Diagnosis Procedure	71
RGB (G: GREEN) SIGNAL CIRCUIT	56		
Description	56	STEERING ANGLE SENSOR SIGNAL CIRCUIT	72
Diagnosis Procedure	56	Description	72
		Diagnosis Procedure	72
RGB (B: BLUE) SIGNAL CIRCUIT	57		
Description	57	STEERING SWITCH SIGNAL A CIRCUIT	74
Diagnosis Procedure	57	Description	74
		Diagnosis Procedure	74
RGB SYNCHRONIZING SIGNAL CIRCUIT	58	Component Inspection	75
Description	58		
Diagnosis Procedure	58	STEERING SWITCH SIGNAL B CIRCUIT	76
		Description	76
RGB AREA (YS) SIGNAL CIRCUIT	59	Diagnosis Procedure	76
Description	59	Component Inspection	77
Diagnosis Procedure	59		
HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT	60	STEERING SWITCH SIGNAL GND CIRCUIT... ..	78
Description	60	Description	78
Diagnosis Procedure	60	Diagnosis Procedure	78
		Component Inspection	79
VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT	61		
Description	61	ECU DIAGNOSIS	80
Diagnosis Procedure	61	AV CONTROL UNIT	80
		Reference Value	80
AUX IMAGE SIGNAL CIRCUIT	62	Wiring Diagram - BASE AUDIO WITHOUT NAVIGATION SYSTEM -	87

DTC Index	99	Exploded View	161	A
DISPLAY UNIT	101	Removal and Installation	161	
Reference Value	101	ANTENNA BASE	162	B
Wiring Diagram - BASE AUDIO WITHOUT NAVI- GATION SYSTEM -	104	Exploded View	162	
CAMERA CONTROL UNIT	117	Removal and Installation	162	
Reference Value	117	MULTIFUNCTION SWITCH	163	C
Wiring Diagram - BASE AUDIO WITHOUT NAVI- GATION SYSTEM -	120	Exploded View	163	
SATELLITE RADIO TUNER	133	Removal and Installation	163	
Reference Value	133	PRESET SWITCH	164	D
Wiring Diagram - BASE AUDIO WITHOUT NAVI- GATION SYSTEM -	135	Exploded View	164	
SYMPTOM DIAGNOSIS	148	Removal and Installation	164	
MULTI AV SYSTEM SYMPTOMS	148	AUXILIARY INPUT JACKS	165	E
Symptom Table	148	Exploded View	165	
NORMAL OPERATING CONDITION	152	Removal and Installation	165	
Description	152	MICROPHONE	166	F
PRECAUTION	154	Exploded View	166	
PRECAUTIONS	154	Removal and Installation	166	
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN- SIONER"	154	CAMERA CONTROL UNIT	167	G
Precaution for Trouble Diagnosis	154	Exploded View	167	
Precaution for Harness Repair	154	Removal and Installation	167	
PREPARATION	155	REAR VIEW CAMERA	168	H
PREPARATION	155	Exploded View	168	
Commercial Service Tools	155	Removal and Installation	168	
ON-VEHICLE REPAIR	156	Adjustment	169	I
AV CONTROL UNIT	156	STEERING ANGLE SENSOR	170	J
Exploded View	156	Exploded View	170	
Removal and Installation	156	Removal and Installation	170	
DISPLAY UNIT	157	ANTENNA FEEDER	171	K
Exploded View	157	Harness Layout	171	
Removal and Installation	157	BOSE AUDIO WITHOUT NAVIGATION		
FRONT DOOR SPEAKER	158	BASIC INSPECTION	172	L
Exploded View	158	DIAGNOSIS AND REPAIR WORKFLOW	172	
Removal and Installation	158	Work Flow	172	M
REAR DOOR SPEAKER	159	INSPECTION AND ADJUSTMENT	174	
Exploded View	159	ADDITIONAL SERVICE WHEN REMOVING BAT- TERY NEGATIVE TERMINAL	174	AV
Removal and Installation	159	ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description ..	174	O
FRONT SQUAWKER	160	ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Re- pair Requirement	174	
Exploded View	160	ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT	174	P
Removal and Installation	160	ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description	174	
SATELLITE RADIO TUNER	161	ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement ...	174	

PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT	174	Description	211
PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Description	174	DTC Logic	211
PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement	174	U1243 DISPLAY UNIT	212
FUNCTION DIAGNOSIS	175	Description	212
MULTI AV SYSTEM	175	DTC Logic	212
System Diagram	175	Diagnosis Procedure	212
System Description	176	U1250 CAMERA CONTROL UNIT	214
Component Parts Location	178	Description	214
Component Description	179	DTC Logic	214
AUDIO SYSTEM	181	Diagnosis Procedure	214
System Diagram	181	U1255 SATELLITE RADIO TUNER	215
System Description	181	Description	215
Component Parts Location	183	DTC Logic	215
Component Description	184	Diagnosis Procedure	215
HANDS-FREE PHONE SYSTEM	185	U1300 AV COMM CIRCUIT	217
System Diagram	185	Description	217
System Description	185	POWER SUPPLY AND GROUND CIRCUIT ...	218
Component Parts Location	186	AV CONTROL UNIT	218
Component Description	187	AV CONTROL UNIT : Diagnosis Procedure	218
REAR VIEW MONITOR SYSTEM	188	DISPLAY UNIT	218
System Diagram	188	DISPLAY UNIT : Diagnosis Procedure	218
System Description	188	MULTIFUNCTION SWITCH	219
Component Parts Location	190	MULTIFUNCTION SWITCH : Diagnosis Procedure	219
Component Description	191	BOSE AMP.	220
DIAGNOSIS SYSTEM (AV CONTROL UNIT).	192	BOSE AMP. : Diagnosis Procedure	220
Diagnosis Description	192	IPOD ADAPTER	220
CONSULT-III Function (MULTI AV)	201	iPod ADAPTER : Diagnosis Procedure	221
DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)	205	SATELLITE RADIO TUNER	221
Diagnosis Description	205	SATELLITE RADIO TUNER : Diagnosis Procedure	221
COMPONENT DIAGNOSIS	207	CAMERA CONTROL UNIT	221
U1000 CAN COMM CIRCUIT	207	CAMERA CONTROL UNIT : Diagnosis Procedure	221
Description	207	TEL ADAPTER UNIT	222
DTC Logic	207	TEL ADAPTER UNIT : Diagnosis Procedure	222
Diagnosis Procedure	207	RGB (R: RED) SIGNAL CIRCUIT	224
U1010 CONTROL UNIT (CAN)	208	Description	224
Description	208	Diagnosis Procedure	224
DTC Logic	208	RGB (G: GREEN) SIGNAL CIRCUIT	225
Diagnosis Procedure	208	Description	225
U1310 AV CONTROL UNIT	209	Diagnosis Procedure	225
Description	209	RGB (B: BLUE) SIGNAL CIRCUIT	226
DTC Logic	209	Description	226
U1200 AV CONTROL UNIT	210	Diagnosis Procedure	226
Description	210	RGB SYNCHRONIZING SIGNAL CIRCUIT	227
DTC Logic	210	Description	227
U1216 AV CONTROL UNIT	211		

Diagnosis Procedure	227	Diagnosis Procedure	244	
RGB AREA (YS) SIGNAL CIRCUIT	228	STEERING ANGLE SENSOR SIGNAL CIR-		A
Description	228	CUIT	245	
Diagnosis Procedure	228	Description	245	B
HORIZONTAL SYNCHRONIZING (HP) SIG-		Diagnosis Procedure	245	
NAL CIRCUIT	229	STEERING SWITCH SIGNAL A CIRCUIT	247	C
Description	229	Description	247	
Diagnosis Procedure	229	Diagnosis Procedure	247	
VERTICAL SYNCHRONIZING (VP) SIGNAL		Component Inspection	248	D
CIRCUIT	230	STEERING SWITCH SIGNAL B CIRCUIT	249	
Description	230	Description	249	
Diagnosis Procedure	230	Diagnosis Procedure	249	E
AUX IMAGE SIGNAL CIRCUIT	231	Component Inspection	250	
Description	231	STEERING SWITCH SIGNAL GND CIRCUIT ..	251	F
Diagnosis Procedure	231	Description	251	
DISK EJECT SIGNAL CIRCUIT	233	Diagnosis Procedure	251	
Description	233	Component Inspection	252	G
Diagnosis Procedure	233	ECU DIAGNOSIS	253	
REAR VIEW CAMERA IMAGE SIGNAL CIR-		AV CONTROL UNIT	253	H
CUIT	234	Reference Value	253	
Description	234	Wiring Diagram - BOSE AUDIO WITHOUT NAVI-		I
Diagnosis Procedure	234	GATION SYSTEM -	260	
REAR VIEW CAMERA POWER SUPPLY	235	DTC Index	278	J
Description	235	DISPLAY UNIT	280	
Diagnosis Procedure	235	Reference Value	280	
CAMERA IMAGE SIGNAL CIRCUIT (CAM-		Wiring Diagram - BOSE AUDIO WITHOUT NAVI-		K
ERA CONTROL UNIT TO AV CONTROL		GATION SYSTEM -	282	
UNIT)	236	BOSE AMP.	301	L
Description	236	Reference Value	301	
Diagnosis Procedure	236	Wiring Diagram - BOSE AUDIO WITHOUT NAVI-		M
COMPOSITE IMAGE SIGNAL CIRCUIT	237	GATION SYSTEM -	303	
Description	237	iPod ADAPTER	322	AV
Diagnosis Procedure	237	Reference Value	322	
MICROPHONE SIGNAL CIRCUIT	238	Wiring Diagram - BOSE AUDIO WITHOUT NAVI-		O
Description	238	GATION SYSTEM -	324	
Diagnosis Procedure	238	CAMERA CONTROL UNIT	342	P
CONTROL SIGNAL CIRCUIT	240	Reference Value	342	
Description	240	Wiring Diagram - BOSE AUDIO WITHOUT NAVI-		
Diagnosis Procedure	240	GATION SYSTEM -	344	
MODE CHANGE SIGNAL CIRCUIT	241	SATELLITE RADIO TUNER	363	
Description	241	Reference Value	363	
Diagnosis Procedure	241	Wiring Diagram - BOSE AUDIO WITHOUT NAVI-		
COMMUNICATION SIGNAL CIRCUIT		GATION SYSTEM -	364	
(CONT-SAT)	242	TEL ADAPTER UNIT	383	
Description	242	Reference Value	383	
Diagnosis Procedure	242	Wiring Diagram - BOSE AUDIO WITHOUT NAVI-		
REQUEST SIGNAL CIRCUIT (SAT→CONT) ..	244	GATION SYSTEM -	384	
Description	244	SYMPTOM DIAGNOSIS	403	

MULTI AV SYSTEM SYMPTOMS	403	Exploded View	422
Symptom Table	403	Removal and Installation	422
NORMAL OPERATING CONDITION	408	MULTIFUNCTION SWITCH	423
Description	408	Exploded View	423
PRECAUTION	410	Removal and Installation	423
PRECAUTIONS	410	PRESET SWITCH	424
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN- SIONER"	410	Exploded View	424
Precaution for Trouble Diagnosis	410	Removal and Installation	424
Precaution for Harness Repair	410	iPod ADAPTER	425
PREPARATION	411	Exploded View	425
PREPARATION	411	Removal and Installation	425
Commercial Service Tools	411	iPod CONNECTOR	426
ON-VEHICLE REPAIR	412	Exploded View	426
AV CONTROL UNIT	412	Removal and Installation	426
Exploded View	412	AUXILIARY INPUT JACKS	427
Removal and Installation	412	Exploded View	427
DISPLAY UNIT	413	Removal and Installation	427
Exploded View	413	MICROPHONE	428
Removal and Installation	413	Exploded View	428
FRONT DOOR SPEAKER	414	Removal and Installation	428
Exploded View	414	CAMERA CONTROL UNIT	429
Removal and Installation	414	Exploded View	429
REAR DOOR SPEAKER	415	Removal and Installation	429
Exploded View	415	REAR VIEW CAMERA	430
Removal and Installation	415	Exploded View	430
FRONT SQUAWKER	416	Removal and Installation	430
Exploded View	416	Adjustment	431
Removal and Installation	416	TEL ADAPTER UNIT	432
REAR SQUAWKER	417	Exploded View	432
Exploded View	417	Removal and Installation	432
Removal and Installation	417	STEERING ANGLE SENSOR	433
CENTER SPEAKER	418	Exploded View	433
Exploded View	418	Removal and Installation	433
Removal and Installation	418	ANTENNA FEEDER	434
WOOFER	419	Harness Layout	434
Exploded View	419	BOSE AUDIO WITH NAVIGATION	
Removal and Installation	419	BASIC INSPECTION	435
BOSE AMP.	420	DIAGNOSIS AND REPAIR WORKFLOW	435
Exploded View	420	Work Flow	435
Removal and Installation	420	INSPECTION AND ADJUSTMENT	437
SATELLITE RADIO TUNER	421	ADDITIONAL SERVICE WHEN REMOVING BAT- TERY NEGATIVE TERMINAL	437
Exploded View	421	ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description .	437
Removal and Installation	421	ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Re- pair Requirement	437
ANTENNA BASE	422		

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT	437	Diagnosis Description	482	
ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description	437	CONSULT-III Function (MULTI AV)	498	A
ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement ..	437	DIAGNOSIS SYSTEM (AROUND VIEW MONITOR CONTROL UNIT)	503	B
PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT	437	Diagnosis Description	503	
PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Description	437	DIAGNOSIS SYSTEM [SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)]	506	C
PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement	437	CONSULT-III Function (SONAR)	506	
CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR)	437	COMPONENT DIAGNOSIS	508	D
CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description	438	U1000 CAN COMM CIRCUIT	508	
CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Special Repair Requirement ..	438	Description	508	E
FUNCTION DIAGNOSIS	444	DTC Logic	508	
MULTI AV SYSTEM	444	Diagnosis Procedure	508	
System Diagram	444	U1010 CONTROL UNIT (CAN)	509	F
System Description	446	Description	509	
Component Parts Location	449	DTC Logic	509	
Component Description	450	Diagnosis Procedure	509	
AUDIO SYSTEM	453	U1310 AV CONTROL UNIT	510	G
System Diagram	453	Description	510	
System Description	453	DTC Logic	510	H
Component Parts Location	455	U1200 AV CONTROL UNIT	511	
Component Description	456	Description	511	I
NAVIGATION SYSTEM	458	DTC Logic	511	
System Diagram	458	U1201 AV CONTROL UNIT	512	J
System Description	458	Description	512	
Component Parts Location	461	DTC Logic	512	
Component Description	462	U1216 AV CONTROL UNIT	513	K
REAR VIEW MONITOR SYSTEM	463	Description	513	
System Diagram	463	DTC Logic	513	
System Description	463	U1217 AV CONTROL UNIT	514	L
Component Parts Location	465	Description	514	
Component Description	466	DTC Logic	514	
AROUND VIEW MONITOR SYSTEM	467	U1218 AV CONTROL UNIT	515	M
System Diagram	467	Description	515	
System Description	467	DTC Logic	515	
Component Parts Location	474	U1219 AV CONTROL UNIT	516	AV
Component Description	475	Description	516	
CAMERA ASSISTANCE SONAR SYSTEM ...	477	DTC Logic	516	O
System Diagram	477	U1220 AV CONTROL UNIT	517	
System Description	477	Description	517	
Component Parts Location	480	DTC Logic	517	P
Component Description	481	U121A AV CONTROL UNIT	518	
DIAGNOSIS SYSTEM (AV CONTROL UNIT)..	482	Description	518	
		DTC Logic	518	
		U121B AV CONTROL UNIT	519	
		Description	519	
		DTC Logic	519	

U121C AV CONTROL UNIT	520	WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR : Description	533
Description	520		
DTC Logic	520		
U121D AV CONTROL UNIT	521	WITH REAR VIEW MONITOR	533
Description	521	WITH REAR VIEW MONITOR : Description	533
DTC Logic	521		
U121E AV CONTROL UNIT	522	WITH AROUND VIEW MONITOR	534
Description	522	WITH AROUND VIEW MONITOR : Description ..	534
DTC Logic	522		
U121F AV CONTROL UNIT	523	B2700 CORNER SENSOR [FL]	536
Description	523	Description	536
DTC Logic	523	DTC Logic	536
Diagnosis Procedure	523		
U1204 GPS	524	B2701 SENSOR HARNESS OPEN [CR-FL] ..	537
Description	524	Description	537
DTC Logic	524	DTC Logic	537
Diagnosis Procedure	524	Diagnosis Procedure	537
U1205 GPS	525	B2702 CORNER SENSOR [FR]	538
Description	525	Description	538
DTC Logic	525	DTC Logic	538
Diagnosis Procedure	525		
U1206 GPS	526	B2703 SENSOR HARNESS OPEN [CR-FR] ..	539
Description	526	Description	539
DTC Logic	526	DTC Logic	539
Diagnosis Procedure	526	Diagnosis Procedure	539
U1207 GPS	527	B2704 CORNER SENSOR [RL]	540
Description	527	Description	540
DTC Logic	527	DTC Logic	540
Diagnosis Procedure	527		
U1243 DISPLAY UNIT	528	B2705 SENSOR HARNESS OPEN [CR-RL] ..	541
Description	528	Description	541
DTC Logic	528	DTC Logic	541
Diagnosis Procedure	528	Diagnosis Procedure	541
U1244 GPS ANTENNA	530	B2706 CORNER SENSOR [RR]	542
Description	530	Description	542
DTC Logic	530	DTC Logic	542
Diagnosis Procedure	530		
U1250 CAMERA CONTROL UNIT	531	B2707 SENSOR HARNESS OPEN [CR-RR] ..	543
Description	531	Description	543
DTC Logic	531	DTC Logic	543
Diagnosis Procedure	531	Diagnosis Procedure	543
U1258 SATELLITE RADIO ANTENNA	532	POWER SUPPLY AND GROUND CIRCUIT ...	544
Description	532	AV CONTROL UNIT	544
DTC Logic	532	AV CONTROL UNIT : Diagnosis Procedure	544
Diagnosis Procedure	532		
U1300 AV COMM CIRCUIT	533	DISPLAY UNIT	544
		DISPLAY UNIT : Diagnosis Procedure	544
WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR	533	MULTIFUNCTION SWITCH	545
		MULTIFUNCTION SWITCH : Diagnosis Proce- dure	545
		BOSE AMP.	546
		BOSE AMP. : Diagnosis Procedure	546
		IPOD ADAPTER	546
		iPod ADAPTER : Diagnosis Procedure	546
		CAMERA CONTROL UNIT	547

CAMERA CONTROL UNIT : Diagnosis Procedure .. 547	CAMERA IMAGE SIGNAL CIRCUIT 564	A
AROUND VIEW MONITOR CONTROL UNIT 547	WITH REAR VIEW MONITOR564	B
AROUND VIEW MONITOR CONTROL UNIT : Di- agnosis Procedure 547	WITH REAR VIEW MONITOR : Description564	C
SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR) 548	WITH REAR VIEW MONITOR : Diagnosis Proce- dure564	D
SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR) : Diagnosis Procedure 548	WITH AROUND VIEW MONITOR564	E
RGB (R: RED) SIGNAL CIRCUIT 550	WITH AROUND VIEW MONITOR : Description ...565	F
Description 550	WITH AROUND VIEW MONITOR : Diagnosis Procedure 565	G
Diagnosis Procedure 550	STEERING ANGLE SENSOR SIGNAL CIR- CUIT 567	H
RGB (G: GREEN) SIGNAL CIRCUIT 551	WITH REAR VIEW MONITOR567	I
Description 551	WITH REAR VIEW MONITOR : Description567	J
Diagnosis Procedure 551	WITH REAR VIEW MONITOR : Diagnosis Proce- dure 567	K
RGB (B: BLUE) SIGNAL CIRCUIT 552	WITH AROUND VIEW MONITOR568	L
Description 552	WITH AROUND VIEW MONITOR : Description ...568	M
Diagnosis Procedure 552	WITH AROUND VIEW MONITOR : Diagnosis Procedure 568	AV
RGB SYNCHRONIZING SIGNAL CIRCUIT 553	STEERING SWITCH SIGNAL A CIRCUIT 571	O
Description 553	Description 571	P
Diagnosis Procedure 553	Diagnosis Procedure 571	
RGB AREA (YS) SIGNAL CIRCUIT 554	Component Inspection 572	
Description 554	STEERING SWITCH SIGNAL B CIRCUIT 573	
Diagnosis Procedure 554	Description 573	
HORIZONTAL SYNCHRONIZING (HP) SIG- NAL CIRCUIT 555	Diagnosis Procedure 573	
Description 555	Component Inspection 574	
Diagnosis Procedure 555	STEERING SWITCH SIGNAL GND CIRCUIT . 575	
VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT 556	Description 575	
Description 556	Diagnosis Procedure 575	
Diagnosis Procedure 556	Component Inspection 575	
AUX IMAGE SIGNAL CIRCUIT 557	FRONT CAMERA COMMUNICATION SIG- NAL CIRCUIT 577	
Description 557	Description 577	
Diagnosis Procedure 557	Diagnosis Procedure 577	
MODE CHANGE SIGNAL CIRCUIT 558	FRONT CAMERA IMAGE SIGNAL CIRCUIT . 578	
Description 558	Description 578	
Diagnosis Procedure 558	Diagnosis Procedure 578	
DISK EJECT SIGNAL CIRCUIT 559	REAR CAMERA COMMUNICATION SIGNAL CIRCUIT 580	
Description 559	Description 580	
Diagnosis Procedure 559	Diagnosis Procedure 580	
MICROPHONE SIGNAL CIRCUIT 560	REAR CAMERA IMAGE SIGNAL CIRCUIT ... 581	
Description 560	Description 581	
Diagnosis Procedure 560	Diagnosis Procedure 581	
REAR VIEW CAMERA IMAGE SIGNAL CIR- CUIT 562	SIDE CAMERA LH COMMUNICATION SIG- NAL CIRCUIT 583	
Description 562	Description 583	
Diagnosis Procedure 562	Diagnosis Procedure 583	

SIDE CAMERA LH IMAGE SIGNAL CIRCUIT	584	WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR	711
Description	584	WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION -	711
Diagnosis Procedure	584	WITH REAR VIEW MONITOR	727
SIDE CAMERA RH COMMUNICATION SIGNAL CIRCUIT	586	WITH REAR VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR -	727
Description	586	WITH AROUND VIEW MONITOR	743
Diagnosis Procedure	586	WITH AROUND VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR -	743
SIDE CAMERA RH IMAGE SIGNAL CIRCUIT	587	iPod ADAPTER	765
Description	587	Reference Value	765
Diagnosis Procedure	587	WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR	766
BUZZER CIRCUIT	589	WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION -	766
Description	589	WITH REAR VIEW MONITOR	782
Component Function Check	589	WITH REAR VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR -	782
Diagnosis Procedure	589	WITH AROUND VIEW MONITOR	798
ECU DIAGNOSIS	591	WITH AROUND VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR -	798
AV CONTROL UNIT	591	CAMERA CONTROL UNIT	820
Reference Value	591	Reference Value	820
WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR	596	Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR -	822
WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION -	597	AROUND VIEW MONITOR CONTROL UNIT	839
WITH REAR VIEW MONITOR	612	Reference Value	839
WITH REAR VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR -	612	Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR -	843
WITH AROUND VIEW MONITOR	628	SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)	865
WITH AROUND VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR -	628	Reference Value	865
Fail-Safe	649	Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR -	866
DTC Index	651	Fail-Safe	887
DISPLAY UNIT	653	DTC Index	888
Reference Value	653	SYMPTOM DIAGNOSIS	889
WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR	655	MULTI AV SYSTEM SYMPTOMS	889
WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION -	655	Symptom Table	889
WITH REAR VIEW MONITOR	671	NORMAL OPERATING CONDITION	896
WITH REAR VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR -	671	Description	896
WITH AROUND VIEW MONITOR	687	PRECAUTION	901
WITH AROUND VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR -	687		
BOSE AMP.	709		
Reference Value	709		

PRECAUTIONS	901	iPod ADAPTER	915	
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	901	Exploded View	915	A
Precaution for Trouble Diagnosis	901	Removal and Installation	915	
Precaution for Harness Repair	901	iPod CONNECTOR	916	B
PREPARATION	902	Exploded View	916	
PREPARATION	902	Removal and Installation	916	
Commercial Service Tools	902	AUXILIARY INPUT JACKS	917	C
ON-VEHICLE REPAIR	903	Exploded View	917	
AV CONTROL UNIT	903	Removal and Installation	917	
Exploded View	903	MICROPHONE	918	D
Removal and Installation	903	Exploded View	918	
DISPLAY UNIT	904	Removal and Installation	918	E
Exploded View	904	GPS ANTENNA	919	
Removal and Installation	904	Exploded View	919	
FRONT DOOR SPEAKER	905	Harness Layout	919	F
Exploded View	905	Removal and Installation	920	
Removal and Installation	905	CAMERA CONTROL UNIT	921	G
REAR DOOR SPEAKER	906	Exploded View	921	
Exploded View	906	Removal and Installation	921	
Removal and Installation	906	AROUND VIEW MONITOR CONTROL UNIT	922	H
FRONT SQUAWKER	907	Exploded View	922	
Exploded View	907	Removal and Installation	922	
Removal and Installation	907	REAR VIEW CAMERA	923	I
REAR SQUAWKER	908	Exploded View	923	
Exploded View	908	Removal and Installation	923	J
Removal and Installation	908	Adjustment	924	
CENTER SPEAKER	909	FRONT CAMERA	925	K
Exploded View	909	Exploded View	925	
Removal and Installation	909	Removal and Installation	925	
WOOFER	910	REAR CAMERA	926	L
Exploded View	910	Exploded View	926	
Removal and Installation	910	Removal and Installation	926	
BOSE AMP.	911	SIDE CAMERA LH	927	M
Exploded View	911	Exploded View	927	
Removal and Installation	911	Removal and Installation	927	
ANTENNA BASE	912	SIDE CAMERA RH	928	AV
Exploded View	912	Exploded View	928	
Removal and Installation	912	Removal and Installation	928	
MULTIFUNCTION SWITCH	913	SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)	929	O
Exploded View	913	Exploded View	929	
Removal and Installation	913	Removal and Installation	929	P
PRESET SWITCH	914	SONAR SENSOR	930	
Exploded View	914	FRONT	930	
Removal and Installation	914	FRONT : Exploded View	930	
		FRONT : Removal and Installation	930	
		REAR	930	

REAR : Exploded View	931	STEERING ANGLE SENSOR	933
REAR : Removal and Installation	931	Exploded View	933
BUZZER	932	Removal and Installation	933
Exploded View	932	ANTENNA FEEDER	934
Removal and Installation	932	Harness Layout	934

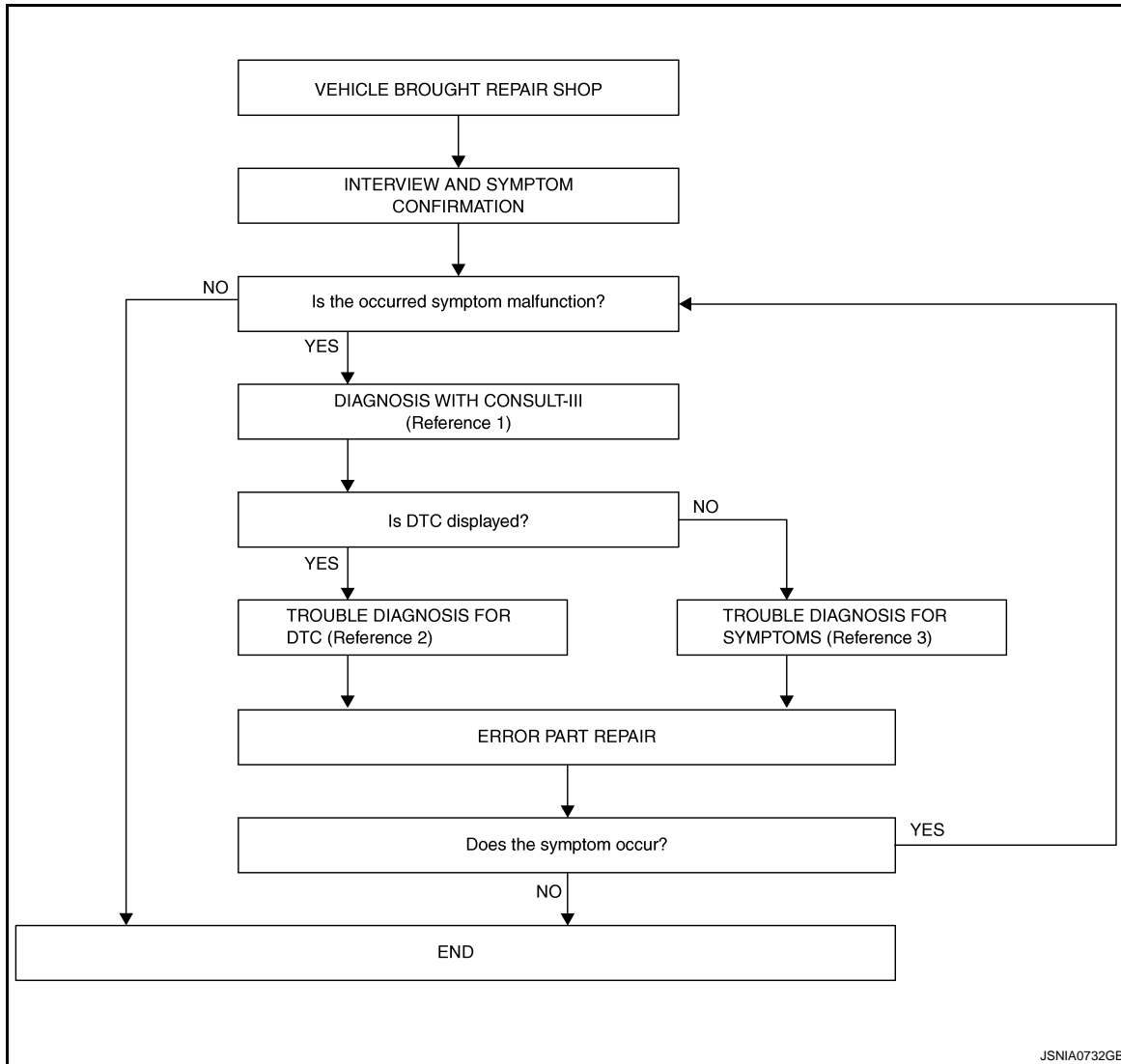
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000003508362

OVERALL SEQUENCE



- Reference 1... Refer to [AV-37. "CONSULT-III Function \(MULTI AV\)".](#)
- Reference 2... Refer to [AV-99. "DTC Index".](#)
- Reference 3... Refer to [AV-148. "Symptom Table".](#)

DETAILED FLOW

1. INTERVIEW AND SYMPTOM CONFIRMATION

Check the malfunction symptoms by performing the following items.

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

Is the occurred symptom malfunction?

YES >> GO TO 2.

NO >> INSPECTION END

2. DIAGNOSIS WITH CONSULT-III

DIAGNOSIS AND REPAIR WORKFLOW

[BASE AUDIO WITHOUT NAVIGATION]

< BASIC INSPECTION >

1. Connect CONSULT-III and perform a self-diagnosis for "MULTI AV". Refer to [AV-37, "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-99, "DTC Index"](#).

>> GO TO 5.

4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to [AV-148, "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

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[BASE AUDIO WITHOUT NAVIGATION]

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:000000003569901

WITH REAR VIEW MONITOR

Always correct the center position of the predicted course line after disconnecting the battery negative terminal.

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:000000003569902

1. CORRECTION OF CENTER POSITION OF PREDICTED COURSE LINE

Refer to the following for details.

>> Refer to [AV-15, "PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement"](#).

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000003569903

When camera control unit is replaced, the center position of predicted course line shall be corrected.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:000000003569904

1. CORRECTION OF CENTER POSITION OF PREDICTED COURSE LINE

Refer to the following for details.

>> Refer to [AV-15, "PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement"](#).

PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT

PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Description

INFOID:000000003569905

Adjust the center position of the predicted course line of the rear view monitor if it is shifted.

PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement

INFOID:000000003569906

1. STEERING OPERATION

Steer the steering wheel to the leftmost and rightmost ends.

>> GO TO 2

2. DRIVING

Drive the vehicle straight ahead 100 m (328.1 ft) or more at a speed of 30 km/h (18.6 MPH) or more.

>> END

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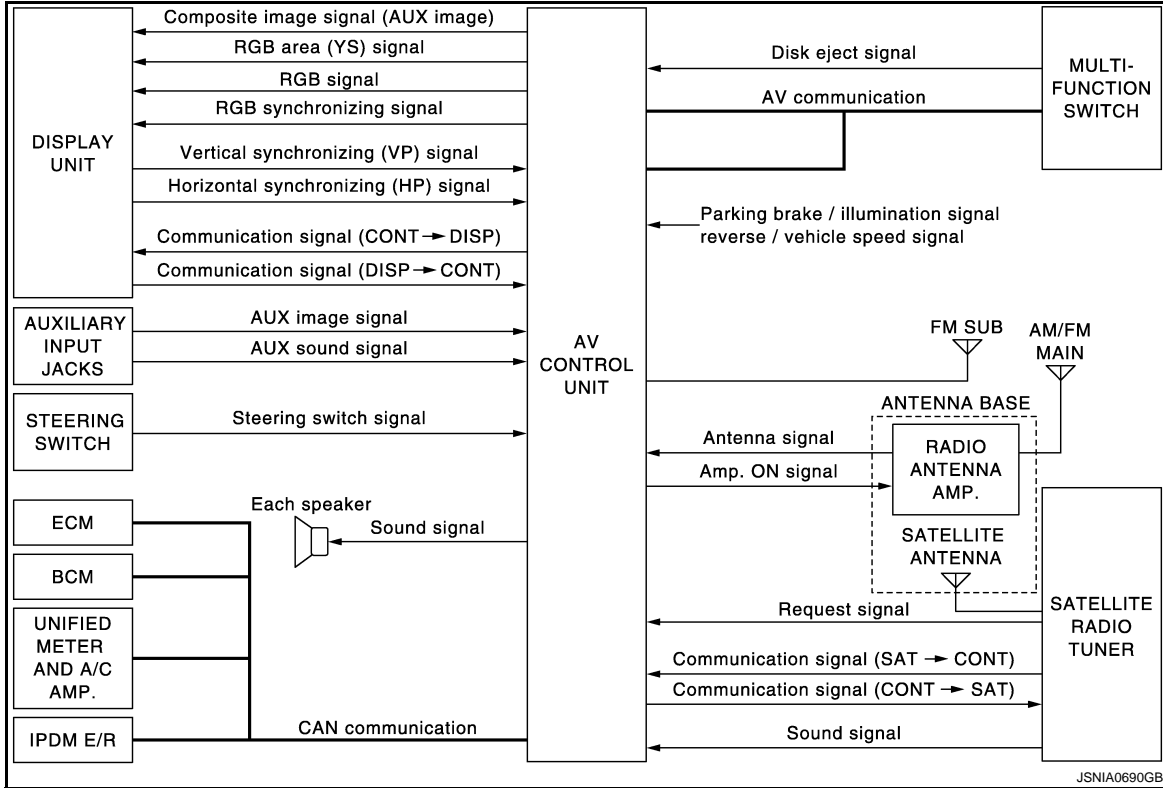
FUNCTION DIAGNOSIS

MULTI AV SYSTEM

System Diagram

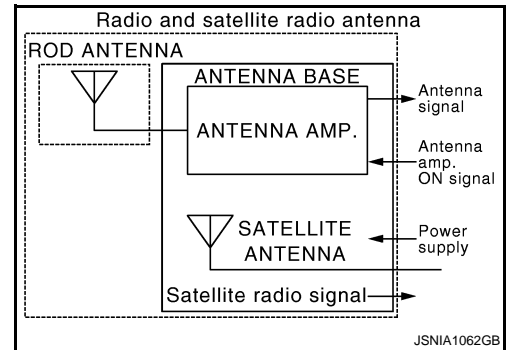
INFOID:000000003508363

WITHOUT REAR VIEW MONITOR



NOTE:

- The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.
- A radio antenna base integrated with radio antenna and satellite radio antenna is adopted.

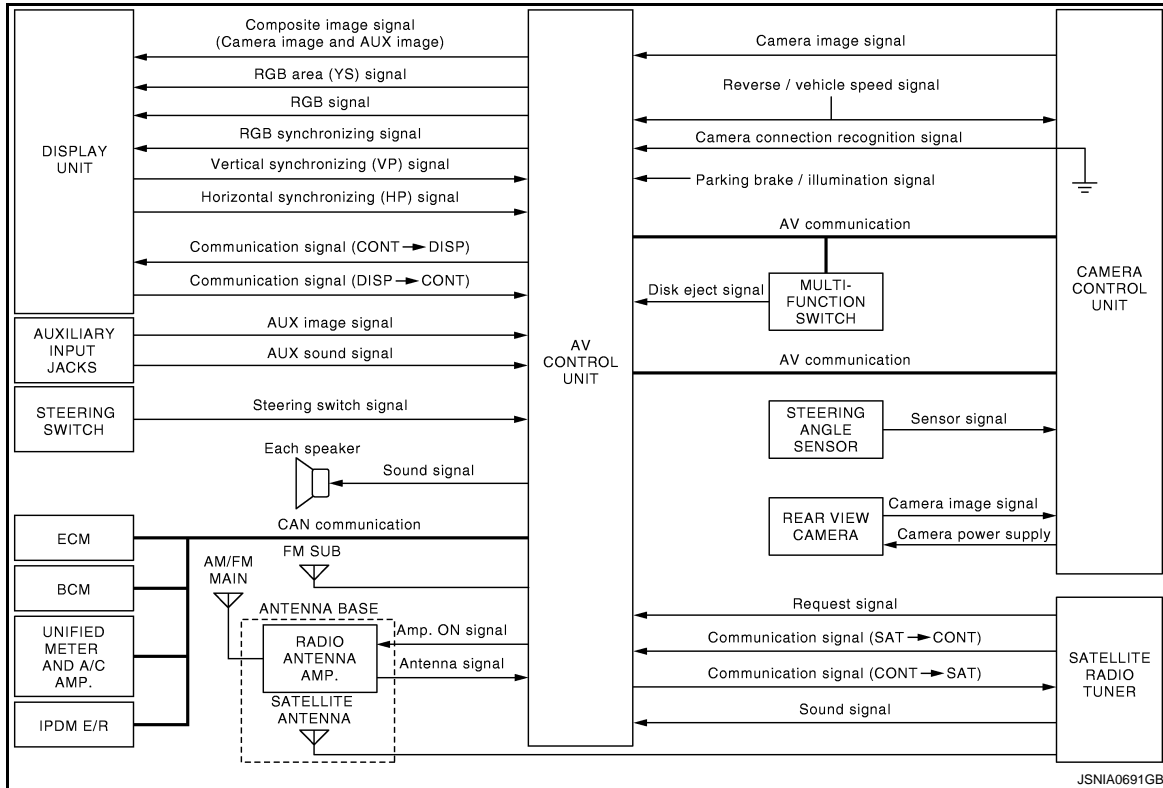


MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

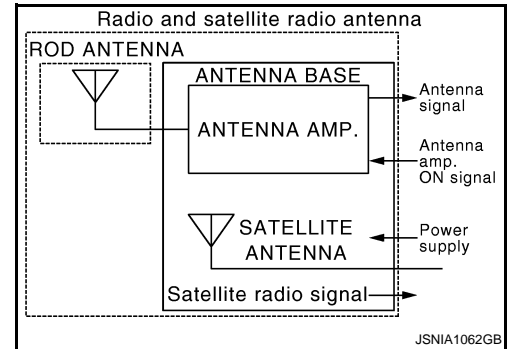
[BASE AUDIO WITHOUT NAVIGATION]

WITH REAR VIEW MONITOR



NOTE:

- The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.
- A radio antenna base integrated with radio antenna and satellite radio antenna is adopted.



System Description

INFOID:000000003508364

Multi AV system means that the following systems are integrated.

System name	System explanation
AUDIO SYSTEM	AV-21. "System Description"
VEHICLE INFORMATION SYSTEM	<ul style="list-style-type: none"> • Indicates the status of audio, climate control system, fuel economy and maintenance. • AV control unit displays the fuel consumption status while receiving data signal through CAN communication from ECM, unified meter and A/C amp. • AV control unit is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.
AUXILIARY INPUT SYSTEM	Refer to "AUXILIARY INPUT SYSTEM" shown below.

- AV control unit functions by transmitting/receiving data one by one with each unit (slave unit) that configures them completely as a master unit by connecting between units that configure the 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.

MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

- AV control unit is connected by CAN communication, and it receives a data signals from the ECM, unified meter and A/C amp. It computes and displays fuel economy information values with the obtained information. The transmitting/receiving of data signals is performed by the BCM. In addition, it transmits the required signal of vehicle setting and receives the response signal.
- AV control unit is connected with display and serial communication, and it transmits the required signal from the display and the display control and receives the response signal from the front display. Also, it is connected with satellite radio by serial communication, and it transmits the operating signal and receives the display signal.

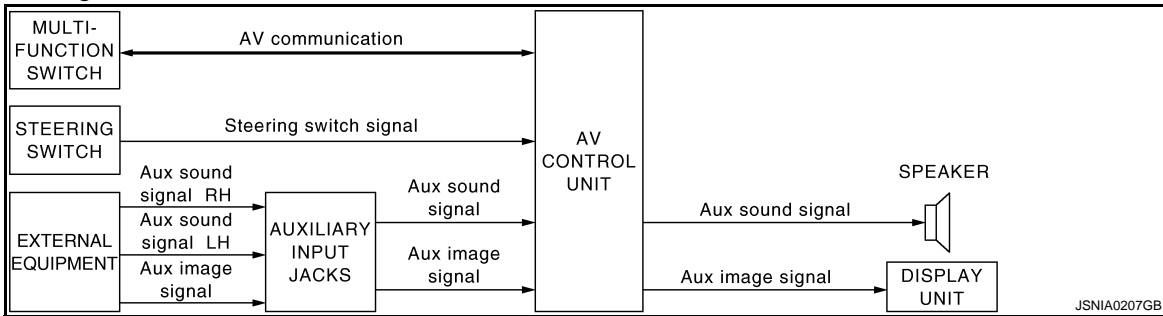
NOTE:

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

- CONSULT-III self-diagnosis: refer to [AV-37, "CONSULT-III Function \(MULTI AV\)"](#).
- On board self-diagnosis: refer to [AV-28, "Diagnosis Description"](#).

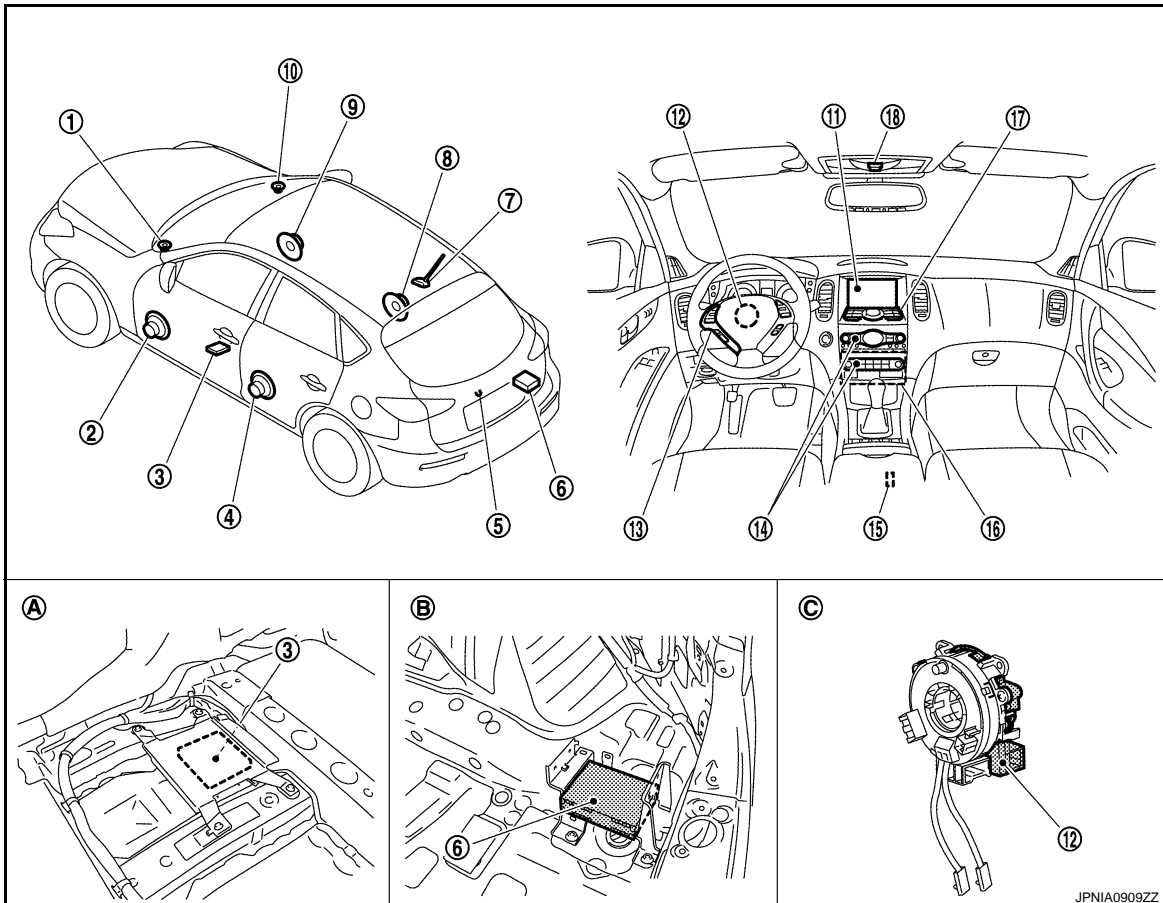
AUXILIARY INPUT SYSTEM

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



Component Parts Location

INFOID:000000003567035



MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

- | | | | |
|---|----------------------------|---------------------------|---|
| 1. Front squawker LH | 2. Front door speaker LH | 3. Camera control unit | A |
| 4. Rear door speaker LH | 5. Rear view camera | 6. Satellite radio tuner | |
| 7. Antenna base (antenna amp and satellite antenna) | 8. Rear door speaker RH | 9. Front door speaker RH | B |
| 10. Front squawker RH | 11. Display unit | 12. Steering angle sensor | |
| 13. Steering switch | 14. Preset switch | 15. Auxiliary input jacks | C |
| 16. AV control unit | 17. Multifunction switch | 18. Microphone | |
| A. Under front seat (LH side) | B. Luggage floor (RH side) | C. Spiral cable part | D |

Component Description

INFOID:000000003508366

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from AV control unit. AV control unit includes audio function and vehicle information function. It is connected to ECM and unified meter and A/C amp via CAN communication to obtain necessary information for the vehicle information function. It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function. It inputs the illumination signals that are required for the display dimming control. It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake). Auxiliary image signal is input from the auxiliary input jacks. Camera image signal is input from camera control unit. AV control unit recognizes the presence of camera system with camera connection recognition signal.
DISPLAY UNIT	<ul style="list-style-type: none"> Display image is controlled by the serial communication from AV control unit. RGB image signal is input from AV control unit (RGB, RGB area and RGB synchronizing). Synchronizing signal (HP, VP) is output to AV control unit. Composite image signal is input from AV control unit.
FRONT DOOR SPEAKER	<ul style="list-style-type: none"> Outputs sound signal from AV control unit. Outputs sound (mid and low range).
REAR DOOR SPEAKER	<ul style="list-style-type: none"> Outputs sound signal from AV control unit. Outputs sound (mid and low range).
FRONT SQUAWKER	<ul style="list-style-type: none"> Outputs sound signal from AV control unit. Outputs sound (high and mid range).
MULTIFUNCTION SWITCH	<ul style="list-style-type: none"> Operation panel is equipped with the centralized switch where audio and auxiliary input operations are integrated. Connected with preset switch via cable, and operation signal is transmitted to AV control unit via AV communication.
PRESET SWITCH	<ul style="list-style-type: none"> Operation panel is equipped with the centralized switch where audio and air conditioner operations are integrated. Connected with multifunction switch via cable, and operation signal is transmitted to AV control unit via AV communication. The disk ejection operating signal is performed by hardware.
CAMERA CONTROL UNIT	<ul style="list-style-type: none"> Camera image signal is input from rear view camera. Camera image signal is output to AV control unit. Power (camera ON signal) is transmitted to rear view camera. Superimpose the guiding line and predicted course line to the camera image that outputs to AV control unit. Input the sensor signal from steering angle sensor, and then control the predicted course line. Camera control unit is connected via AV communication.
REAR VIEW CAMERA	<ul style="list-style-type: none"> The image of vehicle rear view is transmitted to camera control unit. It receives power (camera ON signal) from camera control unit and operates.

MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Part name	Description
STEERING ANGLE SENSOR	Steering signal necessary for predicted course line control is transmitted to camera control unit.
STEERING SWITCH	<ul style="list-style-type: none">• The operation of Audio, etc. can be performed.• Steering switch signal (operation signal) is output to AV control unit.
AUXILIARY INPUT JACKS	The image signal of the auxiliary input is output via AV control unit to the display, and it outputs the sound signal to AV control unit.
ANTENNA BASE	<p>A radio antenna base integrated with radio antenna amp. and satellite radio antenna is adopted.</p> <p>ANTENNA AMP.</p> <ul style="list-style-type: none">• Radio signal received by rod antenna is amplified and transmitted to AV control unit.• Power (antenna amp. ON signal) is supplied from AV control unit. <p>SATELLITE RADIO ANTENNA</p> <ul style="list-style-type: none">• Receives the satellite radio waves and outputs it to satellite radio tuner.
SATELLITE RADIO TUNER	<ul style="list-style-type: none">• Inputs the satellite radio signal from satellite radio antenna and outputs the sound signal to AV control unit.• It is controlled with AV control unit and serial communication (communication signal and request signal).

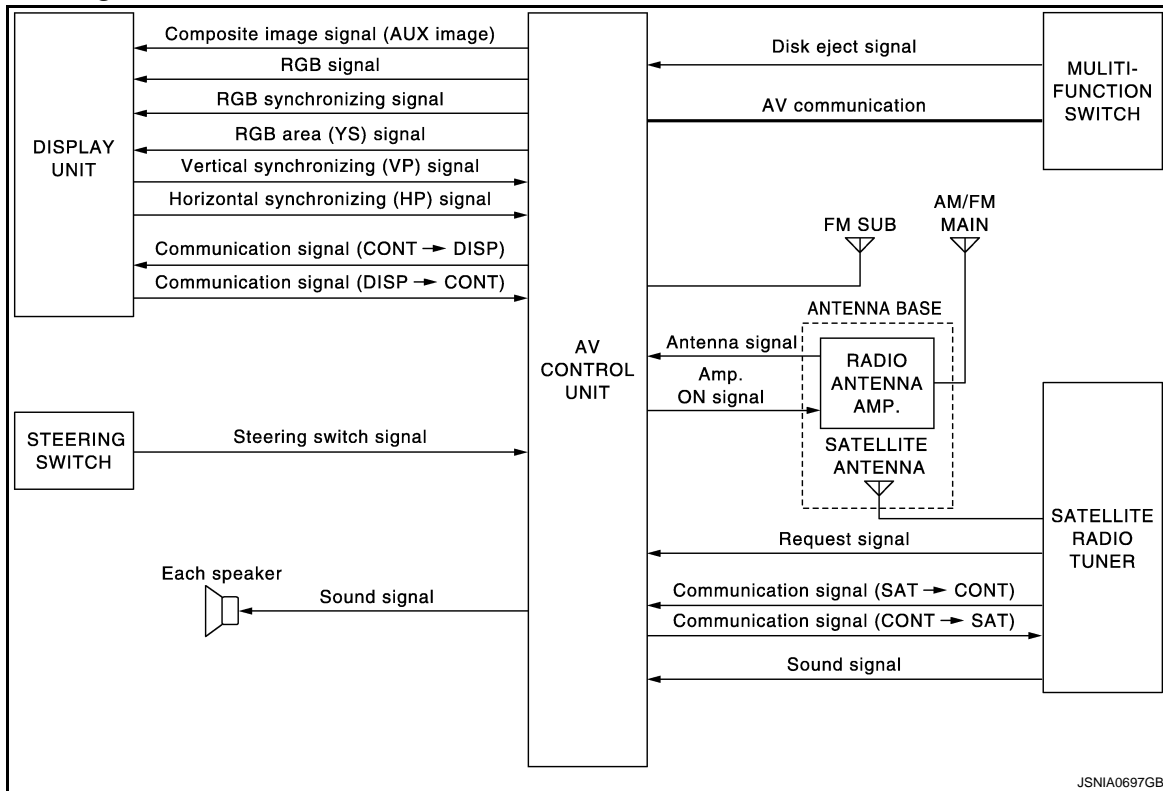
AUDIO SYSTEM

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

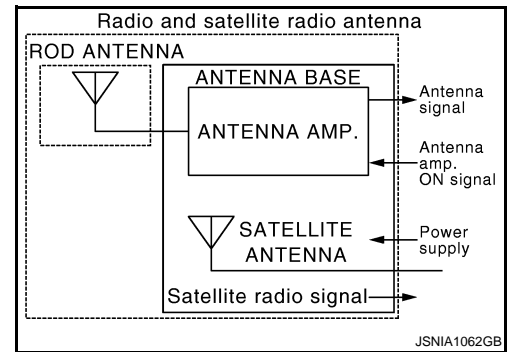
AUDIO SYSTEM

System Diagram



NOTE:

A radio antenna base integrated with radio antenna and satellite radio antenna is adopted.



System Description

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

Function
AM/FM radio
Satellite radio
CD

FUNCTION DESCRIPTION

Operating signal

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

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

AUDIO SYSTEM

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Screen display

- The display is switched by communication signal between display and AV control unit.
- The image signal to display operating condition is performed by the RGB signal, RGB area signal and RGB image synchronizing signal.

AM/FM Radio Mode

- AM/FM radio tuner is built into AV control unit.
- Audio signal is received by rod antenna, next it is amplified by antenna amp., and finally it is input into AV control unit. The FM sub antenna is installed on the back door window glass and AV control unit receives audio signal.
- AV control unit outputs the audio signal to each speaker.

Satellite Radio System

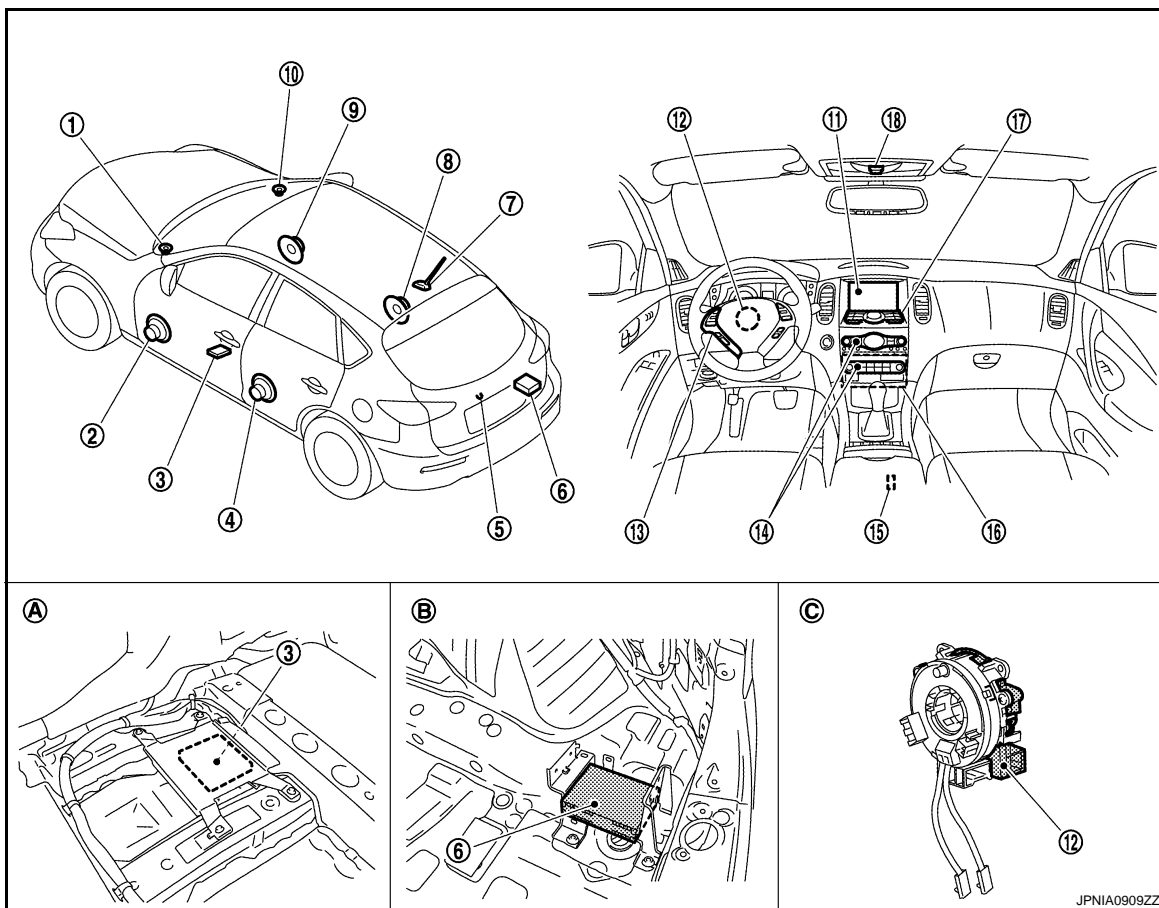
- Satellite radio tuner is controlled by communication signal and request signal with AV control unit.
- Satellite radio wave is received by satellite radio antenna and it is input to satellite radio tuner. Satellite radio tuner outputs satellite radio sound signal to AV control unit.
- AV control unit outputs satellite radio sound signal to each speaker.

CD Mode

- CD function is built into AV control unit.
- AV control unit outputs audio signals to each speaker when CD inserted into AV control unit.

Component Parts Location

INFOID:000000003579810



- | | | |
|---|--------------------------|---------------------------|
| 1. Front squawker LH | 2. Front door speaker LH | 3. Camera control unit |
| 4. Rear door speaker LH | 5. Rear view camera | 6. Satellite radio tuner |
| 7. Antenna base (antenna amp and satellite antenna) | 8. Rear door speaker RH | 9. Front door speaker RH |
| 10. Front squawker RH | 11. Display unit | 12. Steering angle sensor |
| 13. Steering switch | 14. Preset switch | 15. Auxiliary input jacks |

AUDIO SYSTEM

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

- | | | |
|-------------------------------|----------------------------|----------------------|
| 16. AV control unit | 17. Multifunction switch | 18. Microphone |
| A. Under front seat (LH side) | B. Luggage floor (RH side) | C. Spiral cable part |

Component Description

INFOID:000000003508370

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> The AM/FM receiving function and the CD playing function are equipped. Outputs the audio signal to each speaker.
DISPLAY UNIT	<ul style="list-style-type: none"> Display image is controlled by the serial communication from AV control unit. RGB image signal (audio operation condition) is input from AV control unit.
FRONT DOOR SPEAKER	<ul style="list-style-type: none"> Outputs sound signal from AV control unit. Outputs sound (mid and low range).
REAR DOOR SPEAKER	<ul style="list-style-type: none"> Outputs sound signal from AV control unit. Outputs sound (mid and low range).
FRONT SQUAWKER	<ul style="list-style-type: none"> Outputs sound signal from AV control unit. Outputs sound (high and mid range).
MULTIFUNCTION SWITCH	<ul style="list-style-type: none"> Each audio operation can be operated. Connected with preset switch via cable, and operation signal is transmitted to AV control unit via AV communication.
PRESET SWITCH	<ul style="list-style-type: none"> Each audio and air conditioner operation can be operated. Connected with multifunction switch via cable, and operation signal is transmitted to AV control unit via AV communication. The disk ejection operating signal is performed by hardware
STEERING SWITCH	<ul style="list-style-type: none"> Each audio operation can be operated. Steering switch signal (operation signal) is output to AV control unit.
ANTENNA BASE	<p>A radio antenna base integrated with radio antenna amp. and satellite radio antenna is adopted.</p> <p>ANTENNA AMP</p> <ul style="list-style-type: none"> Radio signal received by rod antenna is amplified and transmitted to AV control unit. Power (antenna amp. ON signal) is supplied from AV control unit. <p>SATELLITE RADIO ANTENNA</p> <ul style="list-style-type: none"> Receives the satellite radio waves and outputs it to satellite radio tuner.
SATELLITE RADIO TUNER	<ul style="list-style-type: none"> Inputs the satellite radio signal from satellite radio antenna and outputs the sound signal to AV control unit. It is controlled with AV control unit and serial communication (communication signal and request signal).

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REAR VIEW MONITOR SYSTEM

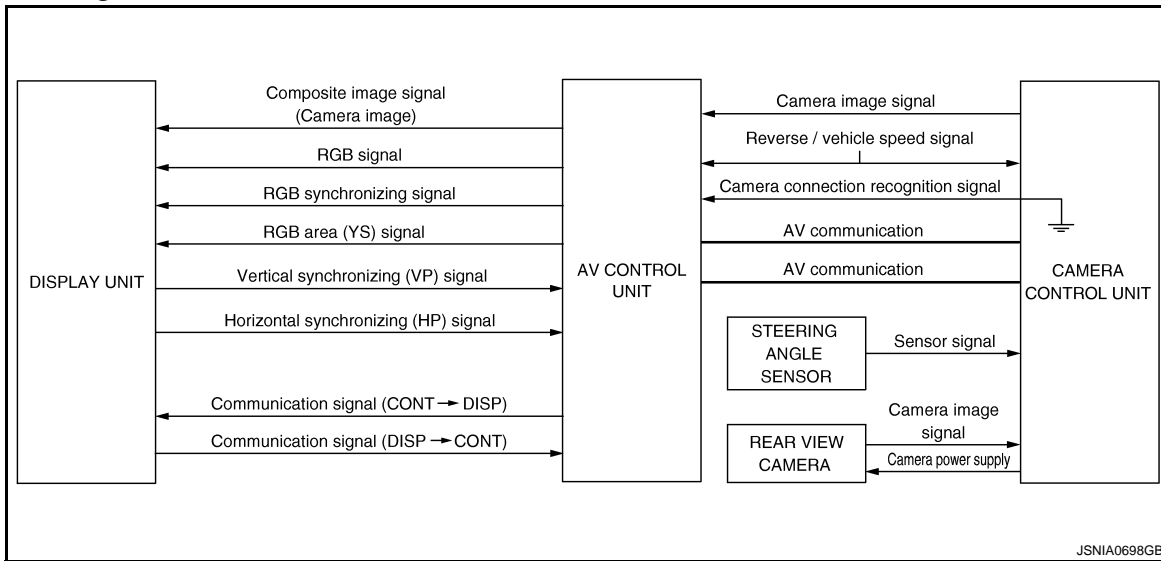
[BASE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

REAR VIEW MONITOR SYSTEM

System Diagram

INFOID:000000003160905



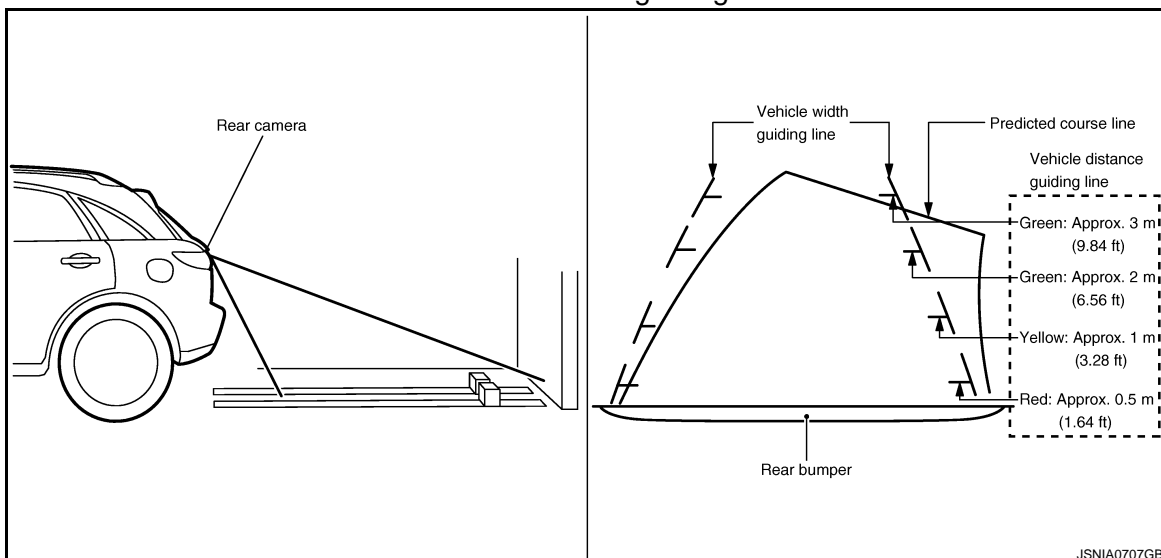
System Description

INFOID:000000003533916

CAMERA IMAGE OPERATION PRINCIPLE

- Power is supplied to rear view camera from camera control unit and the rear view camera outputs the camera image to camera control unit when selector lever is set to reverse position and the reverse signal on camera control unit is input.
- Camera control unit superimposes the guiding line and predicted course line to the image from rear view camera and outputs to display unit. In this case, the reverse signal is also input to AV control unit. Therefore, AV control unit recognizes the selector lever as in the reverse position. And then AV control unit switches the image displayed by the communication signal between AV control unit and display unit with the camera image.
- AV control unit outputs camera image signal that is inputted from camera control unit to display unit.
- Camera control unit controls the direction and distance of predicted course line according to the sensor signal from steering angle sensor.
- AV control unit determines whether rear view camera is equipped or not, based on the presence of camera connection recognition signal. It switches to rear view monitor image at the time of reverse signal input when rear view camera is equipped.
- Warning message under the rear view monitor display is described by AV control unit.

Rear view monitor guiding line



REAR VIEW MONITOR SYSTEM

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

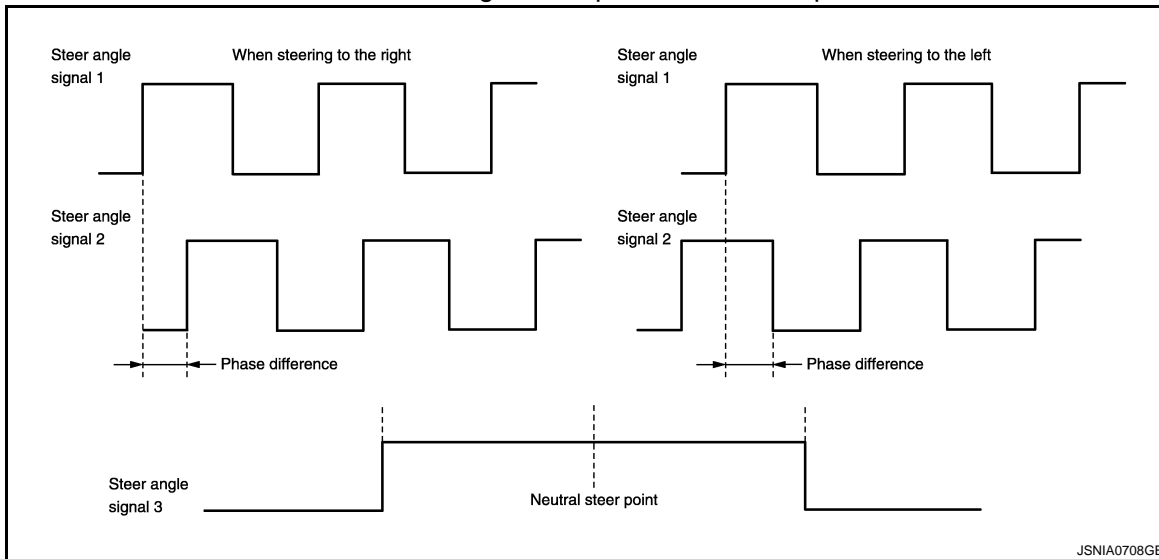
PREDICTED COURSE LINE OPERATION PRINCIPLE

Detection of steering rotation direction

Camera control unit detects the rotation direction of steering according to the phase difference of two pairs of pulse signals (sensor signal 1 and sensor signal 2) input from steering angle sensor.

Detection of steering neutral position

The sensor signal 3 input from steering angle sensor is generated at 1 pulse per 1 rotation of the steering wheel. Camera control unit detects the steering neutral position from this pulse.



Correction of steering neutral position

Camera control unit corrects the steering neutral position during driving according to the vehicle speed signal and sensor signal.

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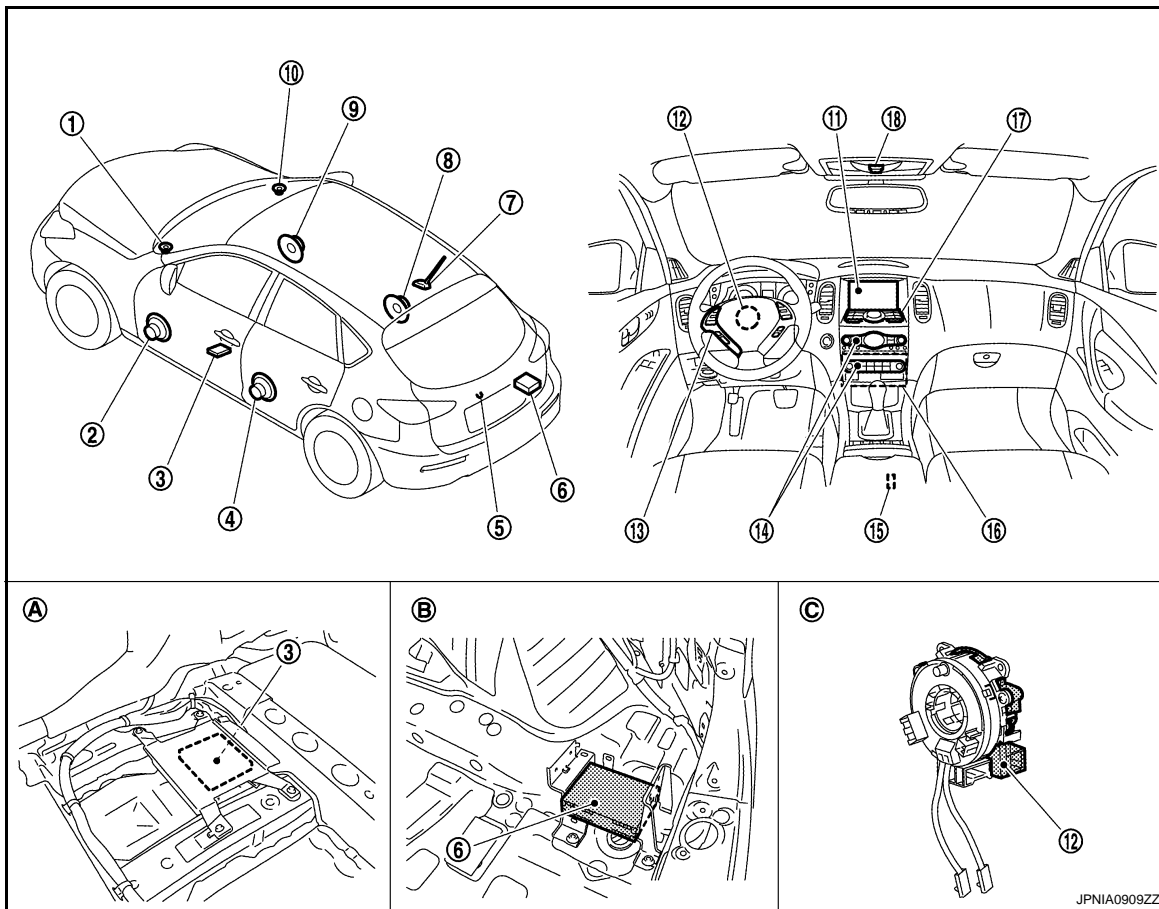
REAR VIEW MONITOR SYSTEM

[BASE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

Component Parts Location

INFOID:000000003579812



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|---|----------------------------|---------------------------|
| 1. Front squawker LH | 2. Front door speaker LH | 3. Camera control unit |
| 4. Rear door speaker LH | 5. Rear view camera | 6. Satellite radio tuner |
| 7. Antenna base (antenna amp and satellite antenna) | 8. Rear door speaker RH | 9. Front door speaker RH |
| 10. Front squawker RH | 11. Display unit | 12. Steering angle sensor |
| 13. Steering switch | 14. Preset switch | 15. Auxiliary input jacks |
| 16. AV control unit | 17. Multifunction switch | 18. Microphone |
| A. Under front seat (LH side) | B. Luggage floor (RH side) | C. Spiral cable part |

JPNIA0909ZZ

Component Description

INFOID:000000003534171

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> Image on display is transmitted to rear view monitor image by serial communication between AV control unit and display unit. Warning displayed on the rear view monitor image is illustrated. AV control unit recognizes the presence of camera system with camera connection recognition signal.
DISPLAY UNIT	<ul style="list-style-type: none"> Camera image signal is input from AV control unit. RGB signal for warning display is input from AV control unit. Rear view monitor image is changed by serial communication from AV control unit.

REAR VIEW MONITOR SYSTEM

[BASE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

Part name	Description
CAMERA CONTROL UNIT	<ul style="list-style-type: none"> • Camera image signal is input from rear view camera. Camera image signal is output to AV control unit. • Power (camera ON signal) is transmitted to rear view camera. • Superimpose the guiding line and predicted course line to the camera image that outputs to AV control unit. • Inputs the sensor signal from steering angle sensor, and then controls the predicted course line. • Camera control unit is connected via AV communication.
REAR VIEW CAMERA	<ul style="list-style-type: none"> • The image of vehicle rear view is transmitted to camera control unit. • It receives power (camera ON signal) from camera control unit and operates.
STEERING ANGLE SENSOR	Steering signal necessary for predicted course line control is transmitted to camera control unit.

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DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

Diagnosis Description

INFOID:000000003508371

MULTIFUNCTION SWITCH AND PRESET SWITCH SELF-DIAGNOSIS FUNCTION

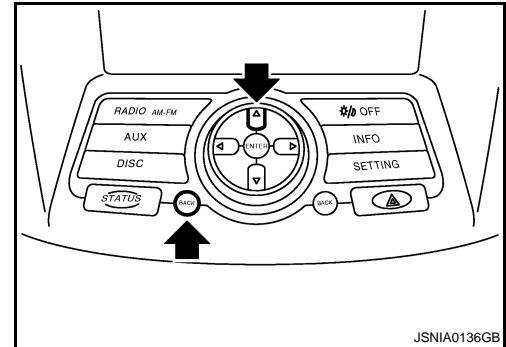
The ON/OFF operation (continuity) of each switch in the multifunction switch and preset switch can be checked.

Self-diagnosis mode

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

CAUTION:

The hazard switch and CD eject switch cannot be checked.



Finishing self-diagnosis mode

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

MULTI AV SYSTEM ON BOARD DIAGNOSIS FUNCTION

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

ON BOARD DIAGNOSIS

Description

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

On board diagnosis item

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

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

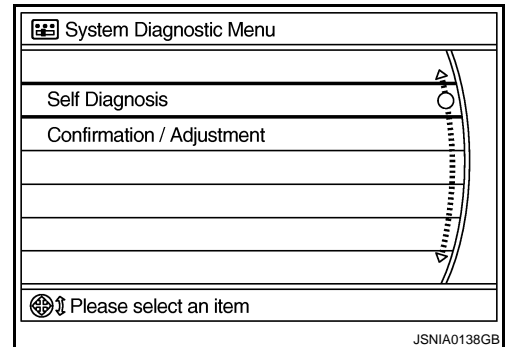
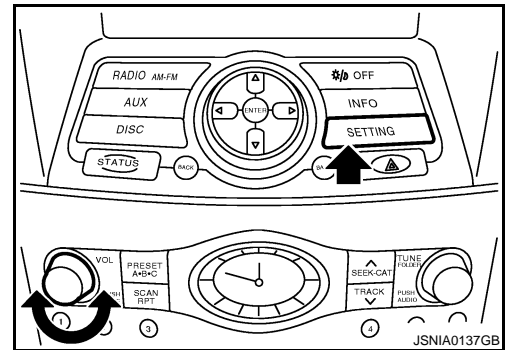
< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

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

STARTING PROCEDURE

1. Start the engine.
2. Turn the audio system OFF.
3. While pressing the "SETTING" button, turn the volume control dial clockwise or counterclockwise for 40 clicks or more. (When the self-diagnosis mode starts, a short beep will sound.)
 - Shifting from the current screen to the previous screen is performed by pressing the "BACK" button.
4. The trouble diagnosis initial screen is displayed, and then the items of "Self Diagnosis" and "Confirmation/Adjustment" can be selected.



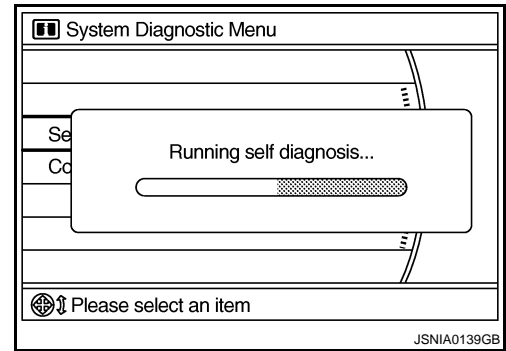
SELF-DIAGNOSIS MODE

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BASE AUDIO WITHOUT NAVIGATION]

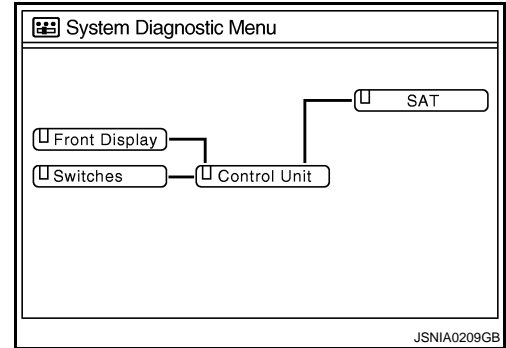
< FUNCTION DIAGNOSIS >

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



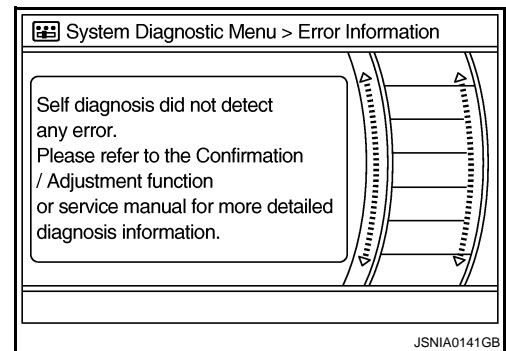
2. Diagnosis results are displayed after the self-diagnosis is completed. The unit names and the connection lines are color-coded according to the diagnostic results.

Diagnosis results	Unit	Con- nection line
Normal	Green	Green
Connection malfunction	Gray	Yellow
Unit malfunction ^{Note}	Red	Green



NOTE:

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



SELF-DIAGNOSIS RESULTS

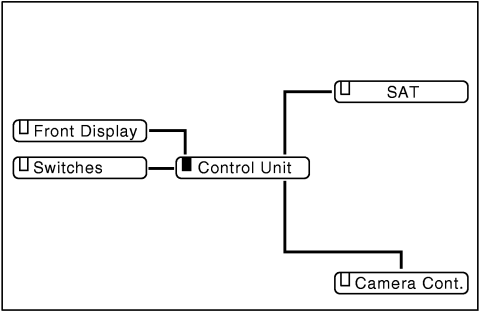
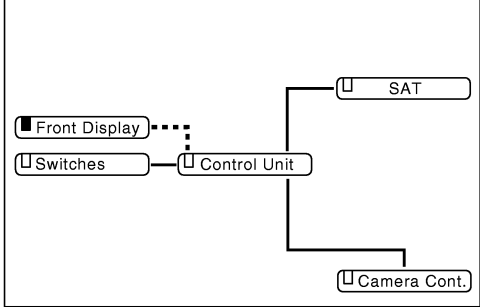
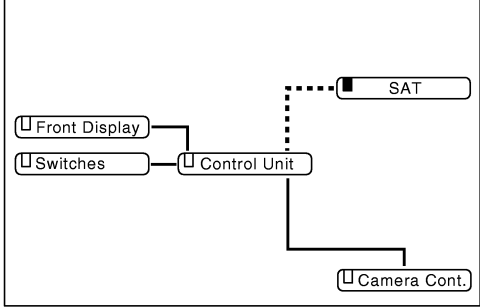
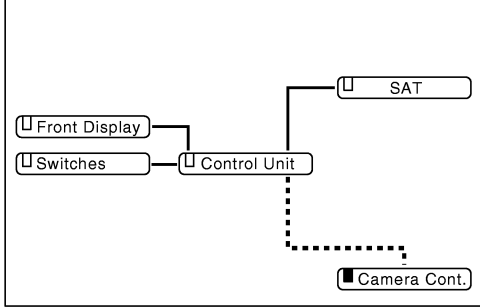
- The self-diagnosis mode allows the technician to diagnose the connection in the communication line between the AV control unit and each unit, and the internal operation of AV control unit.
- Because the start condition of the diagnosis function is a switch operation, the on board diagnosis function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

Self-diagnosis result chart

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Diagnosis results	Description	Possible malfunction location / Action to take
<p>"Self-Diagnosis did not run because of a control unit malfunction"</p>	<p>AV control unit malfunction is detected.</p>	<p>Replace AV control unit.</p>
 <p>■ : Red JPNIA0829GB</p> <p>NOTE: When a control unit malfunction is detected (red in the unit display), connection malfunctions with other connection units may be displayed.</p>	<p>Malfunction is detected in AV control unit power supply and ground circuits.</p>	<p>Check AV control unit power supply and ground circuits. When detecting no malfunction in those components, replace AV control unit.</p>
 <p>■ : Gray - - - - : Yellow JPNIA0831GB</p>	<p>Malfunction is detected in the communication circuits between AV control unit and display unit.</p>	<p>Communication circuits between AV control unit and display unit.</p>
 <p>■ : Gray - - - - : Yellow JPNIA0830GB</p>	<p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • Satellite radio tuner power supply or ground circuits malfunction are detected. • Malfunction is detected in the communication circuits between AV control unit and satellite radio tuner. • Malfunction is detected in the request signal circuit between AV control unit and satellite radio tuner. 	<ul style="list-style-type: none"> • Satellite radio tuner power supply and ground circuits. • Communication circuits between AV control unit and satellite radio tuner. • Request signal circuit between AV control unit and satellite radio tuner.
 <p>■ : Red - - - - : Yellow JPNIA0832GB</p>	<p>A malfunction is detected in the camera connection recognition circuit between AV control unit and camera control unit.</p>	<p>Camera connection recognition circuit between AV control unit and camera control unit.</p>

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CONFIRMATION/ADJUSTMENT MODE

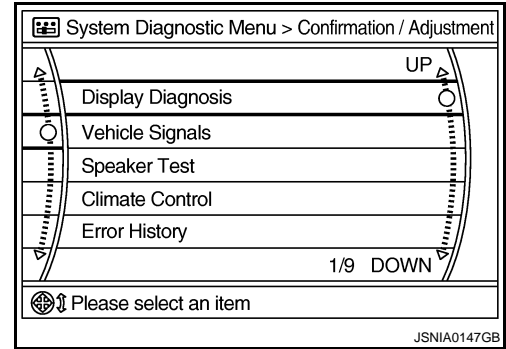
1. Start the diagnosis function and select "Confirmation/Adjustment". The confirmation/adjustment mode indicates where each item can be checked or adjusted.

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

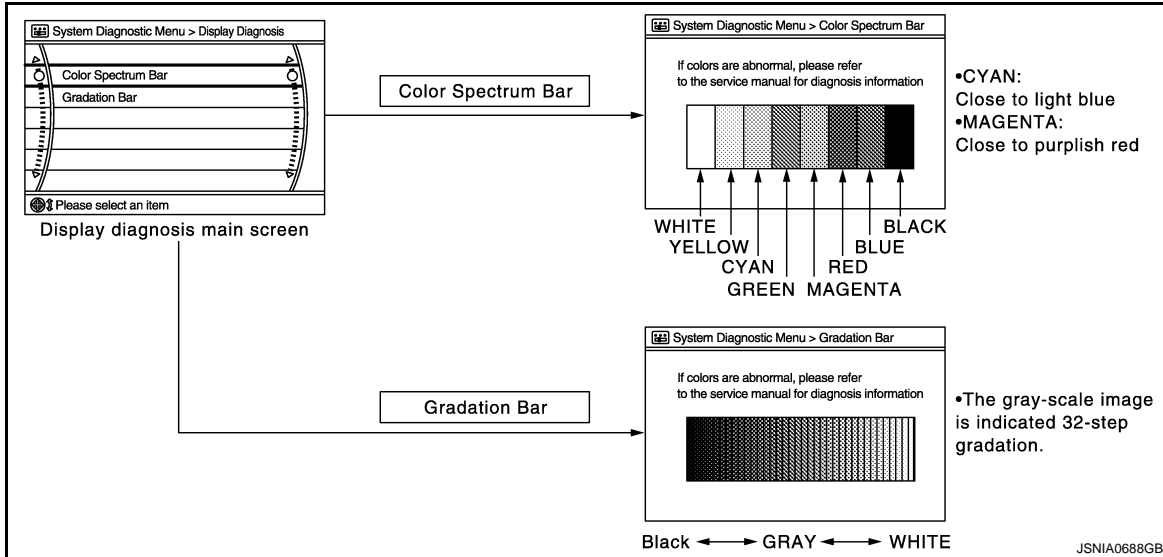
[BASE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

2. Select each switch on the “Inspection & Adjustment Mode” screen to display the relevant trouble diagnosis screen. Press the “RETURN” switch to return to the initial Inspection & Adjustment Mode screen.



Display Diagnosis

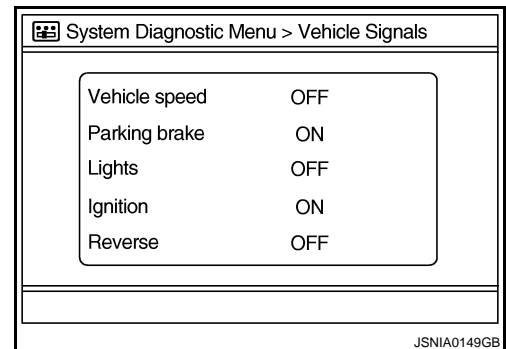


The tint of the color bar indication is as per the following list if a RGB signal error is detected.

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

Vehicle Signals

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



Diagnosis item	Display	Vehicle status	Remarks
Vehicle speed	ON	Vehicle speed > 0 km/h (0 MPH)	Changes in indication may be delayed. This is normal.
	OFF	Vehicle speed = 0 km/h (0 MPH)	
Parking brake	ON	Parking brake is applied.	
	OFF	Parking brake is released.	

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Diagnosis item	Display	Vehicle status	Remarks
Lights	ON	Light switch ON	—
	OFF	Light switch OFF	
Ignition	ON	Ignition switch ON	—
	OFF	Ignition switch in the ACC position	
Reverse	ON	Shift the selector lever to the "R" position	Changes in indication may be delayed. This is normal.
	OFF	Shift the selector lever to a position other than the "R" position	

Speaker Test

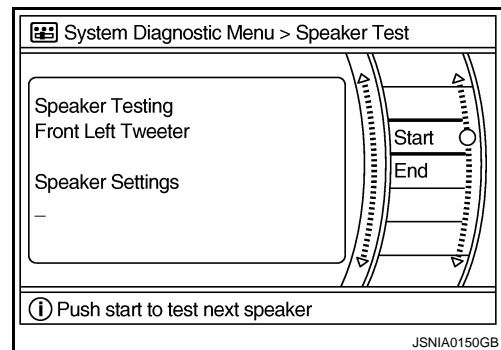
Select "SPEAKER DIAGNOSIS" to display the Speaker Diagnosis screen. Press "START and NEXT" to generate a test tone in a speaker. Press "Start" to generate a test tone in the next speaker. Press "End" to stop the test tones.

NOTE:

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

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

*: Squawker



Climate Control

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

Error History

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

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

Count up method A

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

Count up method B

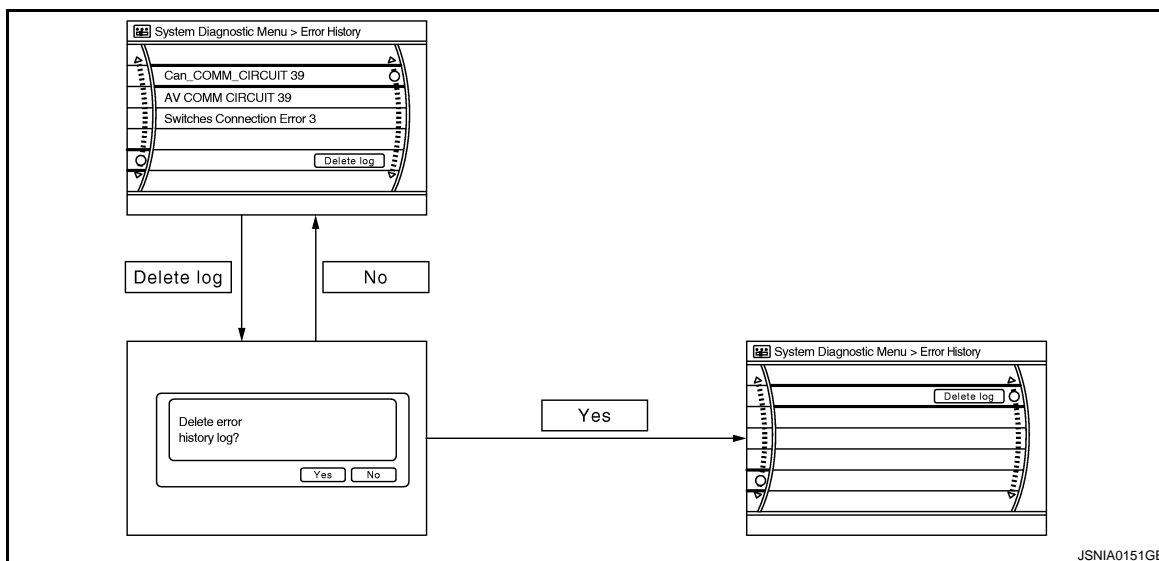
- The counter increases by 1 if an error occurs when the IGN switch is ON. The counter will not decrease even if the condition is normal at the next IGN ON cycle.
- The counter upper limit is 50. Any counts exceeding 50 are ignored. The counter can be reset (no error record display) with the "Delete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

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

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]



Error item

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

Error item	Description	Possible malfunction factor/Action to take
CAN COMM CIRCUIT	CAN communication malfunction is detected.	Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results. Refer to AV-37. "CONSULT-III Function (MULTI AV)".
CONTROL UNIT (CAN)	CAN initial diagnosis malfunction is detected.	Replace AV control unit.
CONTROL UNIT (AV)	AV communication circuit initial diagnosis malfunction is detected.	
FLASH-ROM Error Of Control Unit CAN Controller Memory Error	AV control unit malfunction is detected.	
Front Display Connection Error	When either one of the following items are detected: <ul style="list-style-type: none"> • Display unit power supply or ground circuits malfunction are detected. • Malfunction is detected in the communication circuits between AV control unit and display unit. 	<ul style="list-style-type: none"> • Display unit power supply and ground circuits. • Communication circuits between AV control unit and display unit.
Camera Control Unit Connection Error	Malfunction is detected in the camera connection recognition circuit between AV control unit and camera control unit.	Camera-connection recognition circuits between AV control unit and camera control unit.
SAT Connection Error	When either one of the following items are detected: <ul style="list-style-type: none"> • Satellite radio tuner power supply or ground circuits malfunction are detected. • Malfunction is detected in the communication circuits between AV control unit and satellite radio tuner. • Malfunction is detected in the request signal circuits between AV control unit and satellite radio tuner. 	<ul style="list-style-type: none"> • Satellite radio tuner power supply and ground circuits. • Communication circuits between AV control unit and satellite radio tuner. • Request signal circuit between AV control unit and satellite radio tuner.

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

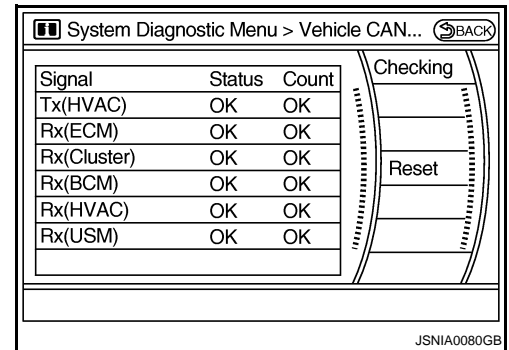
[BASE AUDIO WITHOUT NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
<ul style="list-style-type: none"> AV COMM CIRCUIT Switches Connection Error 	When either one of the following items are detected: <ul style="list-style-type: none"> Multifunction switch power supply or ground circuits malfunction are detected. Malfunction is detected in the AV communication circuits between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> Multifunction switch power supply and ground circuits. AV communication circuits between AV control unit and multifunction switch.
<ul style="list-style-type: none"> AV COMM CIRCUIT Rear View Camera Connection Error 	When either one of the following items are detected: <ul style="list-style-type: none"> Camera control unit power supply or ground circuits malfunction are detected. Malfunction is detected in the AV communication circuits between camera control unit and the junction between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> Camera control unit power supply and ground circuits. AV communication circuits between camera control unit and the junction between AV control unit and multifunction switch.
<ul style="list-style-type: none"> AV COMM CIRCUIT Switches Connection Error Rear View Camera Connection Error 	Malfunction is detected in the AV communication circuits between AV control unit and the junction between multifunction switch and camera control unit.	AV communication circuits between AV control unit and the junction between multifunction switch and camera control unit.

Vehicle CAN Diagnosis

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

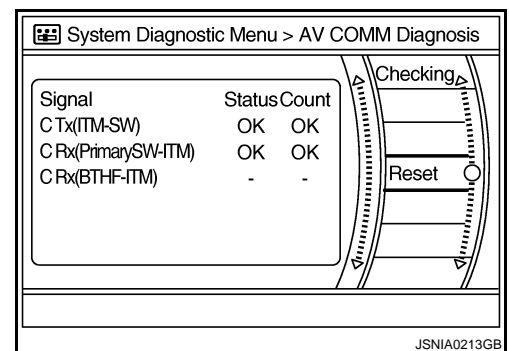
Items	Display (Current)	Malfunction counter (Past)
Tx(HVAC)	OK / UNKWN	OK / 0 – 39
Rx(ECM)	OK / UNKWN	OK / 0 – 39
Rx(Cluster)	OK / UNKWN	OK / 0 – 39
Rx(BCM)	OK / UNKWN	OK / 0 – 39
Rx(HVAC)	OK / UNKWN	OK / 0 – 39
Rx(USM)	OK / UNKWN	OK / 0 – 39



AV COMM Diagnosis

- Displays the communication status between the 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.

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



Camera Cont.

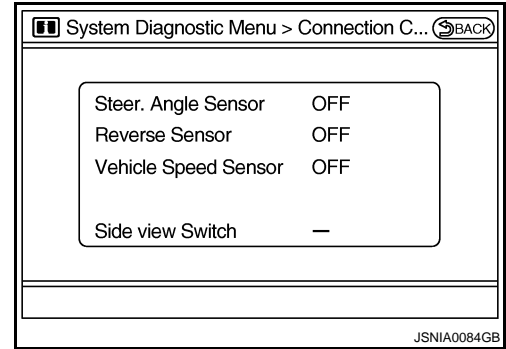
The two functions of “Connection Confirmation” and “Adjust Offset of Rear View Camera” are available.
CONNECTION CONFIRMATION

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

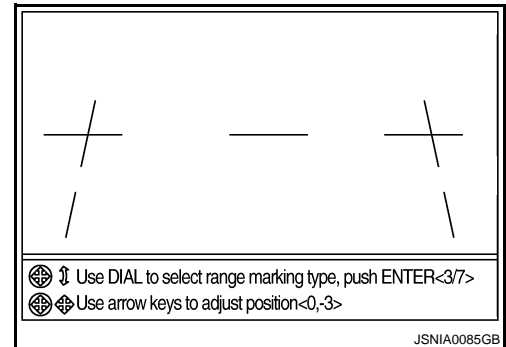
The steering angle sensor, reverse signal and vehicle speed sensor can be inspected.



Diagnosis item	Display	Vehicle status
Steer. Angle Sensor	ON	When steering the vehicle with ignition switch ON (remains ON until connection mode is stopped when it is turned ON)
	OFF	<ul style="list-style-type: none"> Ignition switch ACC No steering with ignition switch ON
	-	Malfunction detected in camera connection recognition signal
Reverse Sensor	ON	Shift the selector lever to the "R" position with ignition switch ON
	OFF	<ul style="list-style-type: none"> Ignition switch at ACC Shift the selector lever to a position other than the "R" position with ignition switch ON
	-	Malfunction detected in camera-connection recognition signal
Vehicle Speed Sensor	ON	Vehicle speed is more than 0 km/h (0 MPH) with ignition switch ON
	OFF	<ul style="list-style-type: none"> Ignition switch ACC Vehicle speed is 0 km/h (0 MPH) with ignition switch ON
	-	Malfunction detected in camera connection recognition signal
Side view Switch	-	Not used

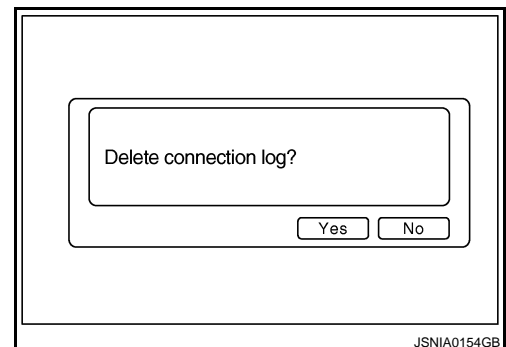
ADJUST OFFSET OF REAR VIEW CAMERA

Use this mode to adjust the guide line display position of the rear view monitor if necessary after removing the rear view monitor camera.



Delete Unit Connection Log

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



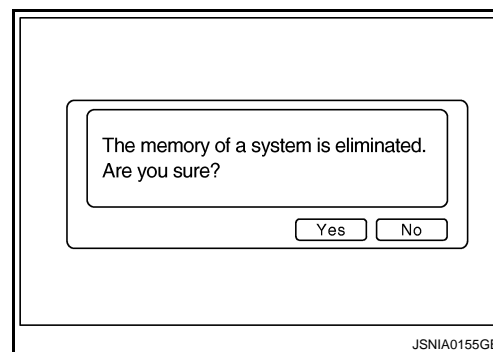
Initialize Settings

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Initializes AV control unit memory.



CONSULT-III Function (MULTI AV)

INFOID:000000003508372

CONSULT-III FUNCTIONS

CONSULT-III performs the following functions via the communication with 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, 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 AV control unit can be performed.

AV COMMUNICATION

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

AV communication	AV&NAVI C/U	Displays the communication status from AV control unit to each unit as well as the error counter.
	AUDIO	Displays 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 simultaneously.
- The timing is displayed as "0" if any of the error codes [U1000], [U1010], [U1300] or [U1310] are detected. The counter increases by 1 if the condition is normal at the next ignition switch ON cycle.

Self-diagnosis results display item

Error item	Description	Possible malfunction factor/Action to take
CAN COMM CIRCUIT [U1000]	CAN communication malfunction is detected.	Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results. Refer to AV-40, "Diagnosis Procedure" .
CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.	Replace AV control unit.
CONTROL UNIT (AV) [U1310]	AV communication circuit initial diagnosis malfunction is detected.	
Control Unit FLASH-ROM [U1200] CAN CONT [U1216]	AV control unit malfunction is detected.	
FRONT DISP CONN [U1243]	When either one of the following items are detected: <ul style="list-style-type: none"> • Display unit power supply or ground circuits malfunction are detected. • Malfunction is detected in the communication circuits between AV control unit and display unit. 	<ul style="list-style-type: none"> • Display unit power supply and ground circuit. • Communication circuit between AV control unit and display unit.

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
CAMERA CONT. CONN [U1250]	Malfunction is detected in the camera connection recognition circuit between AV control unit and camera control unit.	Camera-connection recognition circuit between AV control unit and camera control unit.
SAT CONN [U1255]	When either one of the following items are detected: <ul style="list-style-type: none"> • Satellite radio tuner power supply or ground circuits malfunction are detected. • Malfunction is detected in the communication circuits between AV control unit and satellite radio tuner. • Malfunction is detected in the request signal circuits between AV control unit and satellite radio tuner. 	<ul style="list-style-type: none"> • Satellite radio tuner power supply and ground circuits. • Communication circuits between AV control unit and satellite radio tuner. • Request signal circuit between AV control unit and satellite radio tuner.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] 	When either one of the following items are detected: <ul style="list-style-type: none"> • Multifunction switch power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuits. • AV communication circuits between AV control unit and multifunction switch.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • REAR CAMERA LAN CONN [U1252] 	When either one of the following items are detected: <ul style="list-style-type: none"> • Camera control unit power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between camera control unit and the junction between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> • Camera control unit power supply and ground circuits. • AV communication circuits between camera control unit and the junction between AV control unit and multifunction switch.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • REAR CAMERA LAN CONN [U1252] 	Malfunction is detected in the AV communication circuits between AV control unit and the junction between camera control unit and multifunction switch.	AV communication circuits between AV control unit and the junction between camera control unit and multifunction switch.

DATA MONITOR

ALL SIGNALS

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

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

SELECTION FROM MENU

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

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

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

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COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:000000003508373

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-27, "CAN System Specification Chart"](#).

DTC Logic

INFOID:000000003508374

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:000000003508375

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-18, "Trouble Diagnosis Flow Chart"](#).
- NO >> Refer to GI section. Refer to [GI-38, "Intermittent Incident"](#).

U1010 CONTROL UNIT (CAN)

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

U1010 CONTROL UNIT (CAN)

Description

INFOID:000000003508376

Initial diagnosis of AV control unit.

DTC Logic

INFOID:000000003508377

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:000000003508378

1. REPLACE AV CONTROL UNIT

When DTC U1010 is detected, replace AV control unit.

>> INSPECTION END

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AV

U1310 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

U1310 AV CONTROL UNIT

Description

INFOID:000000003508379

Replace the AV control unit if this DTC is displayed. Refer to [AV-156. "Exploded View"](#).

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

DTC Logic

INFOID:000000003508380

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

U1200 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

U1200 AV CONTROL UNIT

Description

INFOID:000000003508381

Replace the AV control unit if this DTC is displayed. Refer to [AV-156, "Exploded View"](#).

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

DTC Logic

INFOID:000000003508382

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

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U1216 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

U1216 AV CONTROL UNIT

Description

INFOID:000000003508383

Replace the AV control unit if this DTC is displayed. Refer to [AV-156. "Exploded View"](#).

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

DTC Logic

INFOID:000000003508384

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

U1243 DISPLAY UNIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

U1243 DISPLAY UNIT

Description

INFOID:000000003508385

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

DTC Logic

INFOID:000000003508386

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1243	FRONT DISP CONN [U1243]	When either one of the following items is detected: <ul style="list-style-type: none"> • Display unit power supply and ground circuits malfunction is detected. • Malfunction is detected in communication circuits between AV control unit and display unit. 	<ul style="list-style-type: none"> • Display unit power supply and ground circuits. • Communication circuits between AV control unit and display unit.

Diagnosis Procedure

INFOID:000000003508387

1. CHECK DISPLAY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check display unit power supply and ground circuits. Refer to [AV-51, "DISPLAY UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

2. CHECK CONTINUITY COMMUNICATION CIRCUIT

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

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

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

Display unit		Ground	Continuity
Connector	Terminals		
M71	11		Not existed
	22		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

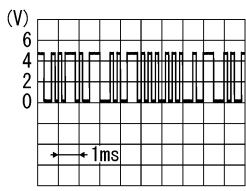
3. CHECK COMMUNICATION SIGNAL (CONT→DISP)

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

U1243 DISPLAY UNIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

(+)		(-)	Condition	Reference value
Display unit				
Connector	Terminal			
M71	11	Ground	When adjusting display brightness.	 <p style="text-align: right;">PKIB5039J</p>

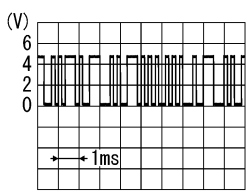
Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

4. CHECK COMMUNICATION SIGNAL (DISP→CONT)

Check signal between display unit harness connector and ground.

(+)		(-)	Condition	Reference value
Display unit				
Connector	Terminal			
M71	22	Ground	When adjusting display brightness.	 <p style="text-align: right;">PKIB5039J</p>

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace display unit.

U1250 CAMERA CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

U1250 CAMERA CONTROL UNIT

Description

INFOID:000000003529091

Part name	Description
CAMERA CONTROL UNIT	<ul style="list-style-type: none"> • Camera image signal is input from rear view camera, and camera image is indicated on the display. • Power (camera ON signal) is sent to rear view camera. • Controlled by AV communication sent from AV control unit. • AV control unit recognizes the presence of camera system with camera connection recognition signal.

DTC Logic

INFOID:000000003529092

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1250	CAMERA CONT. CONN [U1250]	A malfunction is detected in Camera-connection recognition signal circuit	Camera-connection recognition signal circuit

Diagnosis Procedure

INFOID:000000003529093

1. CHECK CAMERA-CONNECTION RECOGNITION SIGNAL CIRCUIT

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

AV control unit		Camera control unit		Continuity
Connector	Terminal	Connector	Terminal	
M84	68	B50	14	Existed

Is inspection result normal?

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

2. CHECK AV CONTROL UNIT VOLTAGE

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

(+)		(-)	Voltage (Approx.)
AV control unit			
Connector	Terminal		
M84	68	Ground	5.0 V

Is inspection result normal?

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

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AV

U1255 SATELLITE RADIO TUNER

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

U1255 SATELLITE RADIO TUNER

Description

INFOID:000000003508388

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

DTC Logic

INFOID:000000003508389

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

Diagnosis Procedure

INFOID:000000003508390

1. CHECK SATELLITE RADIO TUNER POWER SUPPLY AND GROUND CIRCUIT

Check satellite radio tuner power supply and ground circuit. Refer to [AV-54, "SATELLITE RADIO TUNER : Diagnosis Procedure"](#).

Is the inspection result normal?

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

2. CHECK CONTINUITY COMMUNICATION CIRCUIT AND REQUEST SIGNAL CIRCUIT

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

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

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

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

Is the inspection result normal?

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

U1255 SATELLITE RADIO TUNER

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

3. CHECK AV CONTROL UNIT VOLTAGE

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

(+)		(-)	Voltage (Approx.)
AV control unit			
Connector	Terminals	Ground	7.5 V 7.0 V
M82	28		
	29		

Is the inspection result normal?

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

4. CHECK SATELLITE RADIO TUNER

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

(+)		(-)	Voltage (Approx.)
Satellite radio tuner			
Connector	Terminal	Ground	7.0 V
M236	10		

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace satellite radio tuner.

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AV

U1300 AV COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

U1300 AV COMM CIRCUIT

Description

INFOID:000000003508391

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

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1300 U1240	<ul style="list-style-type: none">• AV COMM CIRCUIT [U1300]• SWITCH CONN [U1240]	<p>When either one of the following items is detected:</p> <ul style="list-style-type: none">• Multifunction switch power supply and ground circuits malfunction is detected.• Malfunction is detected in AV communication circuits between AV control unit and multifunction switch.	<ul style="list-style-type: none">• Multifunction switch power supply and ground circuits.• AV communication circuits between AV control unit and multifunction switch.
U1300 U1252	<ul style="list-style-type: none">• AV COMM CIRCUIT [U1300]• REAR CAMERA CONN [U1252]	<p>When either one of the following items is detected:</p> <ul style="list-style-type: none">• Camera control unit power supply and ground circuits malfunction is detected.• Malfunction is detected in AV communication circuits between camera control unit and the junction of AV control unit and AV control unit and multifunction switch.	<ul style="list-style-type: none">• Camera control unit power supply and ground circuits.• AV communication circuits between camera control unit and the junction of AV control unit and AV control unit and multifunction switch.
U1300 U1240 U1252	<ul style="list-style-type: none">• AV COMM CIRCUIT [U1300]• SWITCH CONN [U1240]• REAR CAMERA CONN [U1252]	<p>Malfunction is detected in AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.</p>	<p>AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.</p>

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

POWER SUPPLY AND GROUND CIRCUIT

AV CONTROL UNIT

AV CONTROL UNIT : Diagnosis Procedure

INFOID:000000003508392

1.CHECK FUSE

Check for blown fuses.

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

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between AV control unit harness connectors and ground.

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

Is the inspection result normal?

YES >> GO TO 3.

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

3.CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	M81	17	OFF	Existed
	M81	20		
	M85	85		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

DISPLAY UNIT

DISPLAY UNIT : Diagnosis Procedure

INFOID:000000003508393

1.CHECK POWER SUPPLY CIRCUIT (DISPLAY SIDE)

Check voltage between display unit harness connectors and ground.

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

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AV

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

2.CHECK POWER SUPPLY CIRCUIT (CONTINUITY)

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

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

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

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replacement of AV control unit.

4.CHECK GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

MULTIFUNCTION SWITCH

MULTIFUNCTION SWITCH : Diagnosis Procedure

INFOID:000000003508394

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Ignition switch ACC or ON	19

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Check voltage between multifunction switch harness connector and ground.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between multifunction switch and fuse.

3.CHECK GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

CAMERA CONTROL UNIT

CAMERA CONTROL UNIT : Diagnosis Procedure

INFOID:000000003652718

1.CHECK FUSE

Check for blown fuses.

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

Is inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between camera control unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	B50	32	OFF	Battery voltage
ACC power supply	B50	30	ACC	Battery voltage

Is inspection result normal?

YES >> GO TO 3.

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

3.CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B50	31	OFF	Existed

Is inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

SATELLITE RADIO TUNER

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

SATELLITE RADIO TUNER : Diagnosis Procedure

INFOID:000000003508395

1.CHECK FUSE

Check for blown fuses.

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

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between satellite radio tuner harness connector and ground.

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

Is the inspection result normal?

YES >> INSPECTION END

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

RGB (R: RED) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

RGB (R: RED) SIGNAL CIRCUIT

Description

INFOID:000000003508396

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

Diagnosis Procedure

INFOID:000000003508397

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

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

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

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

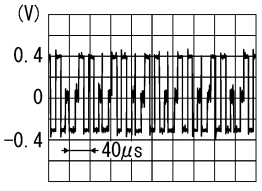
Display unit		Ground	Continuity
Connector	Terminal		
M71	17		Not existed

Is the inspection result normal?

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

2. CHECK RGB (R: RED) SIGNAL

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

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

Is the inspection result normal?

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

RGB (G: GREEN) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

RGB (G: GREEN) SIGNAL CIRCUIT

Description

INFOID:000000003508398

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

Diagnosis Procedure

INFOID:000000003508399

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

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

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

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

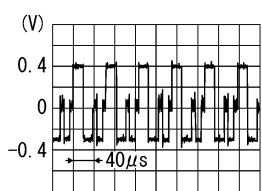
Display unit		Ground	Continuity
Connector	Terminal		
M71	6		Not existed

Is the inspection result normal?

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

2. CHECK RGB (G: GREEN) SIGNAL

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

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

Is the inspection result normal?

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

RGB (B: BLUE) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

RGB (B: BLUE) SIGNAL CIRCUIT

Description

INFOID:000000003508400

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

Diagnosis Procedure

INFOID:000000003508401

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

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

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

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

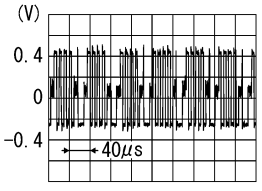
Display unit		Ground	Continuity
Connector	Terminal		
M71	18		Not existed

Is the inspection result normal?

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

2. CHECK RGB (B: BLUE) SIGNAL

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

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

Is the inspection result normal?

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

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RGB SYNCHRONIZING SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

RGB SYNCHRONIZING SIGNAL CIRCUIT

Description

INFOID:000000003508402

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

Diagnosis Procedure

INFOID:000000003508403

1. CHECK CONTINUITY RGB SYNCHRONIZING SIGNAL CIRCUIT

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

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

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

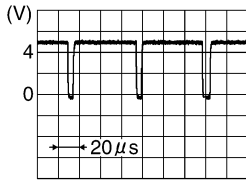
Display unit		Ground	Continuity
Connector	Terminal		
M71	19		Not existed

Is the inspection result normal?

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

2. CHECK RGB SYNCHRONIZING SIGNAL

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

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

Is the inspection result normal?

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

RGB AREA (YS) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

RGB AREA (YS) SIGNAL CIRCUIT

Description

INFOID:000000003508404

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

Diagnosis Procedure

INFOID:000000003508405

1. CHECK CONTINUITY RGB AREA (YS) SIGNAL CIRCUIT

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

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

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

Display unit		Ground	Continuity
Connector	Terminal		
M71	9		Not existed

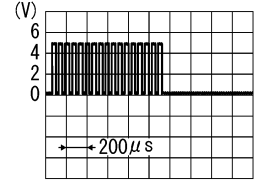
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK RGB AREA (YS) SIGNAL

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

(+)		(-)	Condition	Reference value (Approx.)
Display unit				
Connector	Terminal			
M71	9	Ground	At RGB image is displayed	5.0 V
			At AUX image is displayed	 <p style="text-align: right;">PKIB4948J</p>

Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

Description

INFOID:000000003508406

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

Diagnosis Procedure

INFOID:000000003508407

1. CHECK CONTINUITY HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

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

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

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

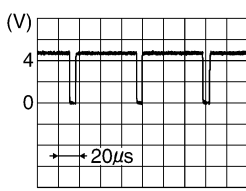
Display unit		Ground	Continuity
Connector	Terminal		
M71	8		Not existed

Is the inspection result normal?

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

2. CHECK HORIZONTAL SYNCHRONIZING (HP) SIGNAL

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

(+) Display unit		(-)	Reference value
Connector	Terminal		
M71	8	Ground	 SKIB3601E

Is the inspection result normal?

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

VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

Description

INFOID:000000003508408

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

Diagnosis Procedure

INFOID:000000003508409

1. CHECK CONTINUITY VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

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

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

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

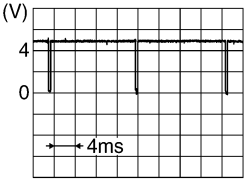
Display unit		Ground	Continuity
Connector	Terminal		
M71	20		Not existed

Is the inspection result normal?

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

2. CHECK VERTICAL SYNCHRONIZING (VP) SIGNAL

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

(+)		(-)	Reference value
Display unit			
Connector	Terminal		
M71	20	Ground	 SKIB3598E

Is the inspection result normal?

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

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AV

AUX IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

AUX IMAGE SIGNAL CIRCUIT

Description

INFOID:000000003508410

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

Diagnosis Procedure

INFOID:000000003508411

1. CHECK CONTINUITY AUX IMAGE SIGNAL CIRCUIT (AUX INPUT JACKS AND AV CONTROL UNIT)

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

Auxiliary input jacks		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M154	7	M84	66	Existed

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

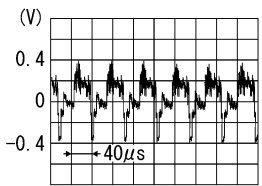
Auxiliary input jacks		Ground	Continuity
Connector	Terminal		
M154	7		Not existed

Is the inspection result normal?

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

2. CHECK AUX IMAGE SIGNAL (AUX INPUT JACKS TO AV CONTROL UNIT)

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

(+)		(-)	Condition	Reference value
Connector	Terminal			
M154	7	Ground	At AUX image is displayed.	 <p>SKIB2251J</p>

Is the inspection result normal?

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

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

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

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

AUX IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

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

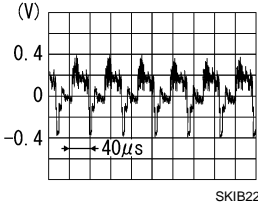
Display unit		Ground	Continuity
Connector	Terminal		
M71	15		Not existed

Is the inspection result normal?

- YES >> GO TO 4.
 NO >> Repair harness or connector.

4. CHECK COMPOSITE IMAGE SIGNAL

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

(+)		(-)	Condition	Reference value
Display unit				
Connector	Terminal			
M71	15	Ground	At AUX image is displayed.	

Is the inspection result normal?

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

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AV

DISK EJECT SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

DISK EJECT SIGNAL CIRCUIT

Description

INFOID:000000003508412

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

Diagnosis Procedure

INFOID:000000003508413

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	103	Existed

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

Multifunction switch		Ground	Continuity
Connector	Terminal		
M72	14		Not existed

Is the inspection result normal?

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

2. CHECK AV CONTROL UNIT VOLTAGE

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

(+)		(-)	Reference value (Approx.)
AV control unit			
Connector	Terminal		
M85	103	Ground	3.3 V

Is the inspection result normal?

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

REAR VIEW CAMERA IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

REAR VIEW CAMERA IMAGE SIGNAL CIRCUIT

Description

INFOID:000000003529077

- Camera control unit outputs camera ON signal to rear view camera and inputs rear view camera image signal from rear view camera when the reverse signal is input.
- The camera control unit that inputs the camera image signal transmits the camera image signal to the AV control unit.

Diagnosis Procedure

INFOID:000000003529078

1. CHECK CONTINUITY CAMERA IMAGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and rear view camera connector.
3. Check continuity between camera control unit harness connector and rear view camera harness connector.

Camera control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	
B50	6	D121	3	Existed

4. Check continuity between camera control unit harness connector and ground.

Camera control unit		Ground	Continuity
Connector	Terminal		
B50	6		Not existed

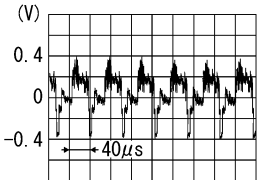
Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK CAMERA IMAGE SIGNAL

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

(+)		(-)	Condition	Reference value
Camera control unit				
Connector	Terminal			
B50	6	Ground	At rear view camera image is displayed.	

Is inspection result normal?

YES >> Replace camera control unit.

NO >> Replace rear view camera.

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AV

REAR VIEW CAMERA POWER SUPPLY

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

REAR VIEW CAMERA POWER SUPPLY

Description

INFOID:000000003529081

- Camera control unit outputs camera ON signal to rear view camera and inputs rear view camera image signal from rear view camera when the reverse signal is input.
- The camera control unit that inputs the camera image signal transmits the camera image signal to the AV control unit.

Diagnosis Procedure

INFOID:000000003529082

1. CHECK CONTINUITY CAMERA ON SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and rear view camera connector.
3. Check continuity between camera control unit harness connector and rear view camera harness connector.

Camera control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	
B50	8	D121	1	Existed

4. Check continuity between camera control unit harness connector and ground.

Camera control unit		Ground	Continuity
Connector	Terminal		
B50	8		Not existed

Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK VOLTAGE CAMERA ON SIGNAL

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

(+) Camera control unit		(-)	Condition	Reference value (Approx.)
Connector	Terminal			
B50	8	Ground	Shift position is "R"	6.0 V

Is inspection result normal?

YES >> Replace rear view camera.

NO >> Replace camera control unit.

CAMERA IMAGE SIGNAL CIRCUIT (CAMERA CONTROL UNIT TO AV CONTROL UNIT)

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

CAMERA IMAGE SIGNAL CIRCUIT (CAMERA CONTROL UNIT TO AV CONTROL UNIT)

Description

INFOID:000000003529083

- Camera control unit outputs camera ON signal to rear view camera and inputs rear view camera image signal from rear view camera when the reverse signal is input.
- The camera control unit that inputs the camera image signal transmits the camera image signal to the AV control unit.

Diagnosis Procedure

INFOID:000000003529084

1. CHECK CONTINUITY CAMERA IMAGE SIGNAL CIRCUIT (CAMERA CONTROL UNIT TO AV CONTROL UNIT)

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

Camera control unit		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
B50	12	M84	65	Existed

4. Check continuity between camera control unit harness connector and ground.

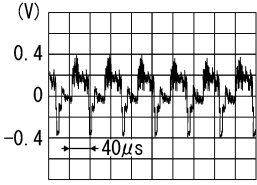
Camera control unit		Ground	Continuity
Connector	Terminal		
B50	12		Not existed

Is inspection result normal?

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

2. CHECK CAMERA IMAGE SIGNAL (CAMERA CONTROL UNIT TO AV CONTROL UNIT)

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

(+)		(-)	Condition	Reference value
Connector	Terminal			
B50	12	Ground	At rear view camera image is displayed.	 <p style="text-align: right; font-size: small;">SKIB2251J</p>

Is inspection result normal?

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

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AV

COMPOSITE IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

COMPOSITE IMAGE SIGNAL CIRCUIT

Description

INFOID:000000003529085

AV control unit that inputs the camera image signal and AUX image signal transmits the composite image signal to the display unit.

Diagnosis Procedure

INFOID:000000003529086

1. CHECK CONTINUITY COMPOSITE IMAGE SIGNAL CIRCUIT (AV CONTROL UNIT TO DISPLAY UNIT)

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

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

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

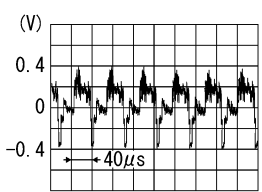
AV control unit		Ground	Continuity
Connector	Terminal		
M83	36		Not existed

Is inspection result normal?

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

2. CHECK COMPOSITE IMAGE SIGNAL (AV CONTROL UNIT TO DISPLAY UNIT)

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

(+)		(-)	Condition	Reference value
AV control unit				
Connector	Terminal			
M83	36	Ground	At rear view camera or AUX image is displayed.	 <p>SKIB2251J</p>

Is inspection result normal?

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

COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)

Description

INFOID:000000003508414

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

Diagnosis Procedure

INFOID:000000003508415

1. CHECK CONTINUITY COMMUNICATION SIGNAL CIRCUIT

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

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

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

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

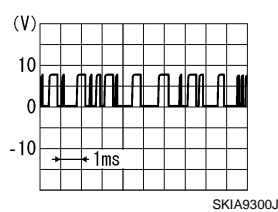
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK COMMUNICATION SIGNAL (SAT→CONT)

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace satellite radio tuner.

3. CHECK COMMUNICATION SIGNAL (CONT→SAT)

Check signal between satellite radio tuner harness connector and ground.

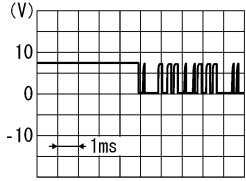
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AV

COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

(+)		(-)	Condition	Reference value
Satellite radio tuner				
Connector	Terminal			
B236	10	Ground	When satellite radio mode is selected.	 <p style="text-align: right; font-size: small;">SKIA9301J</p>

Is the inspection result normal?

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

REQUEST SIGNAL CIRCUIT (SAT→CONT)

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

REQUEST SIGNAL CIRCUIT (SAT→CONT)

Description

INFOID:000000003508416

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

Diagnosis Procedure

INFOID:000000003508417

1. CHECK CONTINUITY REQUEST SIGNAL CIRCUIT

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

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

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

Satellite radio tuner		Ground	Continuity
Connector	Terminal		
B236	8		Not existed

Is the inspection result normal?

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

2. CHECK COMMUNICATION SIGNAL

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

(+)		(-)	Condition	Reference value
Connector	Terminal			
B236	8	Ground	When satellite radio mode is selected.	

Is the inspection result normal?

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

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AV

STEERING ANGLE SENSOR SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

STEERING ANGLE SENSOR SIGNAL CIRCUIT

Description

INFOID:000000003529087

- Steering angle sensor signal 1, 2 detects the turning direction and quantity of the steering and transmits it to the camera control unit.
- Steering angle sensor signal 3 detects the neutral position of the steering and transmits it to the camera control unit.
- Camera control unit performs the correction of neutral position with sensor signal 1, 2, 3 and vehicle speed signal.

Diagnosis Procedure

INFOID:000000003529088

1. CHECK CONTINUITY STEERING ANGLE SENSOR SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and steering angle sensor connector.
3. Check continuity between camera control unit harness connector and steering angle sensor harness connector.

Camera control unit		Steering angle sensor		Continuity
Connector	Terminals	Connector	Terminals	
B50	23	M37	3	Existed
	24		4	
	25		5	

4. Check continuity between camera control unit harness connector and ground.

Camera control unit		Ground	Continuity
Connector	Terminals		
B50	23	Ground	Not existed
	24		
	25		

Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK VOLTAGE CAMERA CONTROL UNIT

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

(+)		(-)	Reference value (Approx.)
Camera control unit			
Connector	Terminals	Ground	5.0 V
B50	23		
	24		
	25		

Is inspection result normal?

YES >> GO TO 3.

NO >> Replace camera control unit.

3. CHECK STEERING ANGLE SENSOR SIGNAL

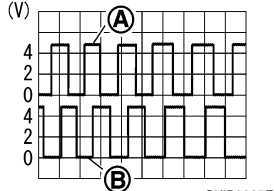
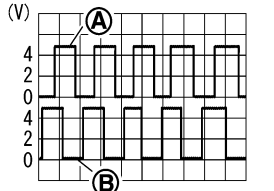
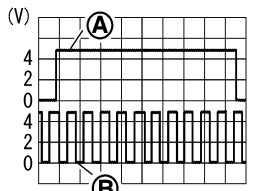
1. Turn ignition switch OFF.
2. Connect steering angle sensor connector.

STEERING ANGLE SENSOR SIGNAL CIRCUIT

[BASE AUDIO WITHOUT NAVIGATION]

< COMPONENT DIAGNOSIS >

3. Turn ignition switch ON.
4. Check signal between camera control unit harness connector and ground.

(+)		(-)	Condition	Reference value
Connector	Terminals			
B50	23, 24	Ground	Turn the steering to the right	 <p>SKIB3827E</p> <p>A: Sensor signal 1 B: Sensor signal 2</p>
			Turn the steering to the left	 <p>SKIB3828E</p> <p>A: Sensor signal 1 B: Sensor signal 2</p>
	25	Ground	Turn the steering around the neutral position	 <p>SKIB3829E</p> <p>A: Sensor signal 3 B: Sensor signal 1</p>

Is inspection result normal?

- YES >> INSPECTION END
 NO >> Replace steering angle sensor.

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STEERING SWITCH SIGNAL A CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

STEERING SWITCH SIGNAL A CIRCUIT

Description

INFOID:000000003508418

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:000000003508419

1. CHECK STEERING SWITCH SIGNAL A CIRCUIT

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

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

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

AV control unit		Ground	Continuity
Connector	Terminal		
M81	6		Not existed

Is the inspection result normal?

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

2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

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

3. CHECK AV CONTROL UNIT VOLTAGE

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

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

Is the inspection result normal?

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

4. CHECK STEERING SWITCH

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

Is the inspection result normal?

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

STEERING SWITCH SIGNAL A CIRCUIT

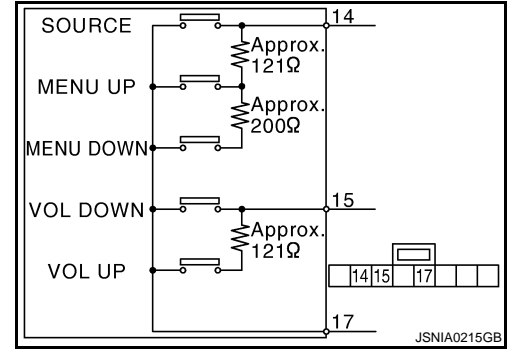
< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Component Inspection

INFOID:000000003508420

Measure the resistance between the steering switch connector.



Steering switch		Steering switch		Condition	Resistance value (Ω)
Connector	Terminals	Connector	Terminal		
M303	14	M303	17	SOURCE switch ON	0
				MENU UP switch ON	120 – 122
				MENU DOWN switch ON	318 – 324
	15			VOL DOWN switch ON	0
				VOL UP switch ON	120 – 122

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STEERING SWITCH SIGNAL B CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

STEERING SWITCH SIGNAL B CIRCUIT

Description

INFOID:000000003508421

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:000000003508422

1. CHECK STEERING SWITCH SIGNAL B CIRCUIT

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

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

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

AV control unit		Ground	Continuity
Connector	Terminal		
M81	16		Not existed

Is the inspection result normal?

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

2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

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

3. CHECK AV CONTROL UNIT VOLTAGE

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

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

Is the inspection result normal?

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

4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-77, "Component Inspection"](#).

Is the inspection result normal?

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

STEERING SWITCH SIGNAL B CIRCUIT

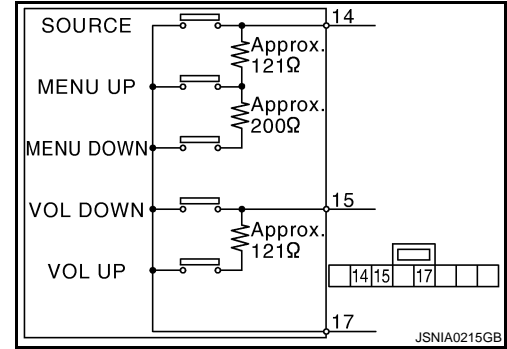
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[BASE AUDIO WITHOUT NAVIGATION]

Component Inspection

INFOID:000000003562718

Measure the resistance between the steering switch connector.



Steering switch		Steering switch		Condition	Resistance value (Ω)
Connector	Terminals	Connector	Terminal		
M303	14	M303	17	SOURCE switch ON	0
				MENU UP switch ON	120 – 122
				MENU DOWN switch ON	318 – 324
	15			VOL DOWN switch ON	0
				VOL UP switch ON	120 – 122

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STEERING SWITCH SIGNAL GND CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

STEERING SWITCH SIGNAL GND CIRCUIT

Description

INFOID:000000003508424

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:000000003508425

1.CHECK STEERING SWITCH SIGNAL GND CIRCUIT

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

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

3. Connect AV control unit connector.

Is the inspection result normal?

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

2.CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

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

3.CHECK GROUND CIRCUIT

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

AV control unit		Ground	Continuity
Connector	Terminal		
M81	15		Not existed

Is the inspection result normal?

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

4.CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-79, "Component Inspection"](#).

Is the inspection result normal?

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

STEERING SWITCH SIGNAL GND CIRCUIT

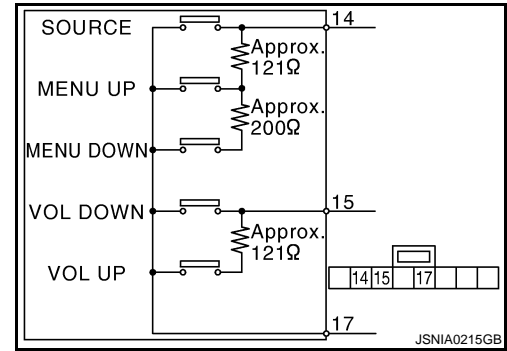
< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Component Inspection

INFOID:000000003562719

Measure the resistance between the steering switch connector.



Steering switch		Steering switch		Condition	Resistance value (Ω)
Connector	Terminals	Connector	Terminal		
M303	14	M303	17	SOURCE switch ON	0
				MENU UP switch ON	120 – 122
				MENU DOWN switch ON	318 – 324
	15			VOL DOWN switch ON	0
				VOL UP switch ON	120 – 122

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AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

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AV CONTROL UNIT

Reference Value

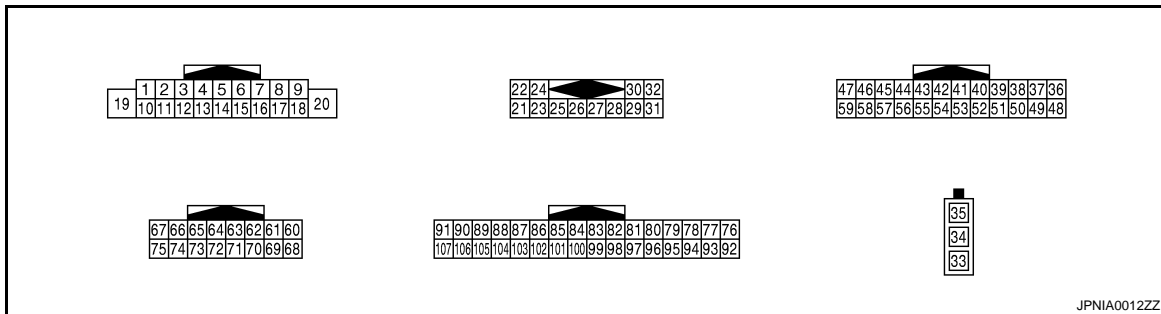
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VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

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.	Changes in indication may be delayed. This is normal.
	Off	Parking brake is released.	
ILLUM SIG	On	Light switch ON	—
	Off	Light switch OFF	
IGN SIG	On	Ignition switch ON	—
	Off	Ignition switch in ACC position	
REV SIG	On	Shift the selector lever to "R" position	Changes in indication may be delayed. This is normal.
	Off	Shift the selector lever other than "R" position	

TERMINAL LAYOUT



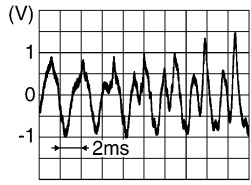
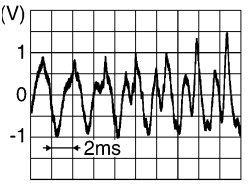
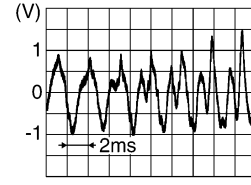
PHYSICAL VALUES

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

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BASE 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 Δ switch.	0.7 V
					Keep pressing ∇ switch.	1.3 V
					Except for above.	3.3 V
7 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
9 (R)	Ground	Illumination signal	Input	OFF	Lighting switch is OFF.	0 V
					Lighting switch is ON.	12.0 V
11 (BR)	12 (R)	Sound signal front door speaker RH and front tweeter RH	Output	Ignition switch ON	Audio output	
13 (L)	14 (P)	Sound signal rear door speaker RH	Output	Ignition switch ON	Audio output	
15 (B)	Ground	Steering switch signal ground	—	Ignition switch ON	—	0 V
16 (L)	15 (B)	Steering switch signal B	Input	Ignition switch ON	Keep pressing VOL DOWN switch.	0 V
					Keep pressing VOL UP switch.	0.7 V
					Except for above.	3.3 V
17 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
19 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
20 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
22 (B)	21 (W)	Satellite radio sound signal LH	Input	Ignition switch ON	When satellite radio mode is selected	

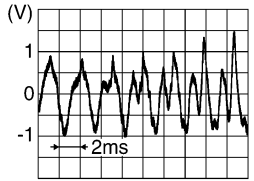
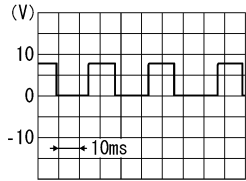
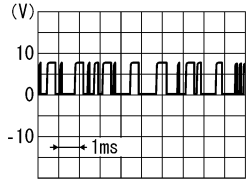
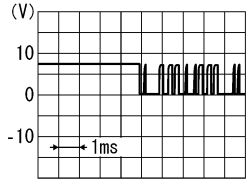
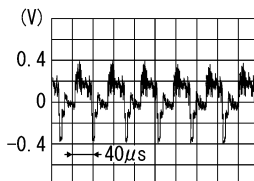
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AV CONTROL UNIT

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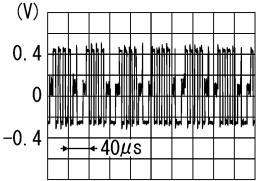
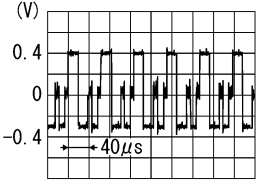
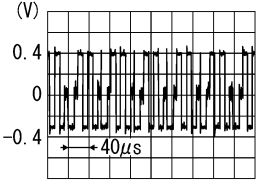
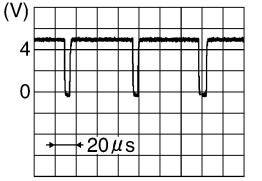
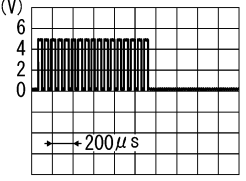
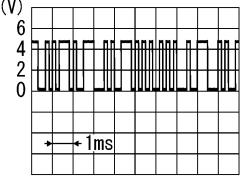
[BASE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
24 (G)	23 (R)	Satellite radio sound signal RH	Input	Ignition switch ON	When satellite radio mode is selected	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
25	—	Shield	—	—	—	—
26	—	Shield	—	—	—	—
28 (W)	Ground	Request signal (SAT→CONT)	Input	Ignition switch ON	When satellite radio mode is selected	 <p style="text-align: right; font-size: small;">SKIA9299J</p>
29 (B)	Ground	Communication signal (SAT→CONT)	Input	Ignition switch ON	When satellite radio mode is selected	 <p style="text-align: right; font-size: small;">SKIA9300J</p>
30 (R)	Ground	Communication signal (CONT→SAT)	Output	Ignition switch ON	When satellite radio mode is selected	 <p style="text-align: right; font-size: small;">SKIA9301J</p>
33	—	FM sub	Input	—	—	—
34	—	AM-FM main	Input	—	—	—
35	Ground	Antenna amp. ON signal	Output	Ignition switch ACC	—	12.0 V
36 (SB)	Ground	Composite image signal	Output	Ignition switch ON	At rear view camera or AUX image display	 <p style="text-align: right; font-size: small;">SKIB2251J</p>
37 (V)	Ground	Composite image ground	—	Ignition switch ON	—	0 V

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
38 (P)	Ground	RGB signal (B: blue)	Output	Ignition switch ON	Start confirmation/adjust- ment mode, and then dis- play color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 <p style="text-align: right; font-size: small;">SKIB2237J</p>
39 (L)	Ground	RGB signal (G: green)	Output	Ignition switch ON	Start confirmation/adjust- ment mode, and then dis- play color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 <p style="text-align: right; font-size: small;">SKIB2236J</p>
40 (G)	Ground	RGB signal (R: red)	Output	Ignition switch ON	Start confirmation/adjust- ment mode, and then dis- play color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 <p style="text-align: right; font-size: small;">SKIB2238J</p>
41 (W)	Ground	RGB synchronizing signal	Output	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">SKIB3603E</p>
42	—	Shield	—	—	—	—
43 (B)	Ground	RGB area (YS) signal	Output	Ignition switch ON	At RGB image display	5.0 V
					At AUX image display	 <p style="text-align: right; font-size: small;">PKIB4948J</p>
44 (BR)	Ground	Communication signal (DISP→CONT)	Input	Ignition switch ON	When adjusting display brightness.	 <p style="text-align: right; font-size: small;">PKIB5039J</p>

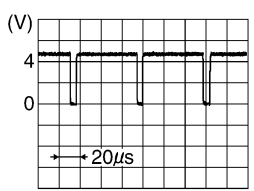
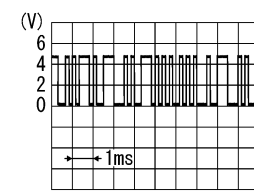
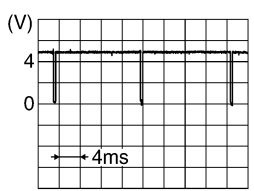
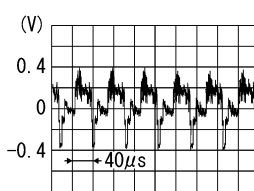
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[BASE AUDIO WITHOUT NAVIGATION]

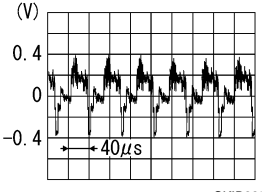
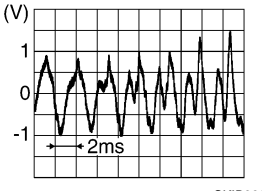
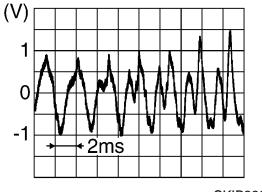
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Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
45 (R)	Ground	Horizontal synchronizing (HP) signal	Input	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">SKIB3601E</p>
46 (LG)	Ground	Signal ground	—	Ignition switch ON	—	0 V
47 (O)	Ground	Signal VCC	Output	Ignition switch ACC	—	9.0 V
49	(Y)	Shield	—	—	—	—
50	—	Shield	—	—	—	—
55	—	Shield	—	—	—	—
56 (Y)	Ground	Communication signal (CONT→DISP)	Output	Ignition switch ON	When adjusting display brightness.	 <p style="text-align: right; font-size: small;">PKIB5039J</p>
57 (G)	Ground	Vertical synchronizing (VP) signal	Input	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">SKIB3598E</p>
58 (BR)	Ground	Inverter ground	—	Ignition switch ON	—	0 V
59 (Y)	Ground	Inverter VCC	Output	Ignition switch ACC	—	9.0 V
64	—	Shield	—	—	—	—
65 (W)	Ground	Camera image signal	Input	Ignition switch ON	At rear view camera image display	 <p style="text-align: right; font-size: small;">SKIB2251J</p>

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
66 (G)	Ground	AUX image signal	Input	Ignition switch ON	When AUX mode is select- ed	
68 (W)	Ground	Camera-connection recog- nition signal	—	Ignition switch ON	Connected to camera control unit connector	0 V
					Not connected to camera control unit connector	5.0 V
73	—	Shield	—	—	—	—
74 (R)	Ground	AUX image signal ground	—	Ignition switch ON	—	0 V
85 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
86 (L)	—	CAN-H	Input/ Output	—	—	—
87 (P)	—	CAN-L	Input/ Output	—	—	—
88 (LG)	—	AV communication signal (H)	Input/ Output	—	—	—
89 (V)	—	AV communication signal (L)	Input/ Output	—	—	—
90 (L)*1 (G)*2	—	AV communication signal (H)	Input/ Output	—	—	—
91 (P)*1 (R)*2	—	AV communication signal (L)	Input/ Output	—	—	—
95 (B)	Ground	AUX sound signal RH	Input	Ignition switch ON	When AUX mode is select- ed	
96 (R)	Ground	AUX sound signal LH	Input	Ignition switch ON	When AUX mode is select- ed	
97 (W)	Ground	AUX sound signal ground	—	Ignition switch ON	—	0 V

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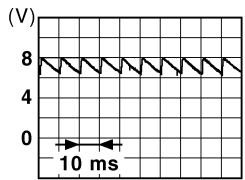
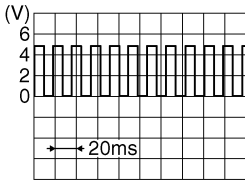
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AV CONTROL UNIT

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[BASE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
101 (BR)	Ground	SW ground	—	Ignition switch ON	—	0 V
103 (SB)	Ground	Disk eject signal	Input	—	Pressing the eject switch	0 V
					Except for above	3.3 V
104 (G)	Ground	Ignition signal	Input	Ignition switch ON	—	Battery voltage
105 (O)	Ground	Reverse signal	Input	Ignition switch ON	R position	12.0 V
					Other than R position	0 V
106 (V)	Ground	Parking brake signal	Input	Ignition switch ON	Parking brake ON	0 V
					Parking brake OFF	 <p style="text-align: right; font-size: small;">JSNIA0007GB</p>
107 (R)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is ap- prox. 40 km/h (25MPH)	<p>NOTE: Maximum voltage may be 12 V due to specifications (connected units).</p>  <p style="text-align: right; font-size: small;">SKIA6649J</p>

NOTE:

*1: Without rear view monitor.

*2: With rear view monitor.

AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

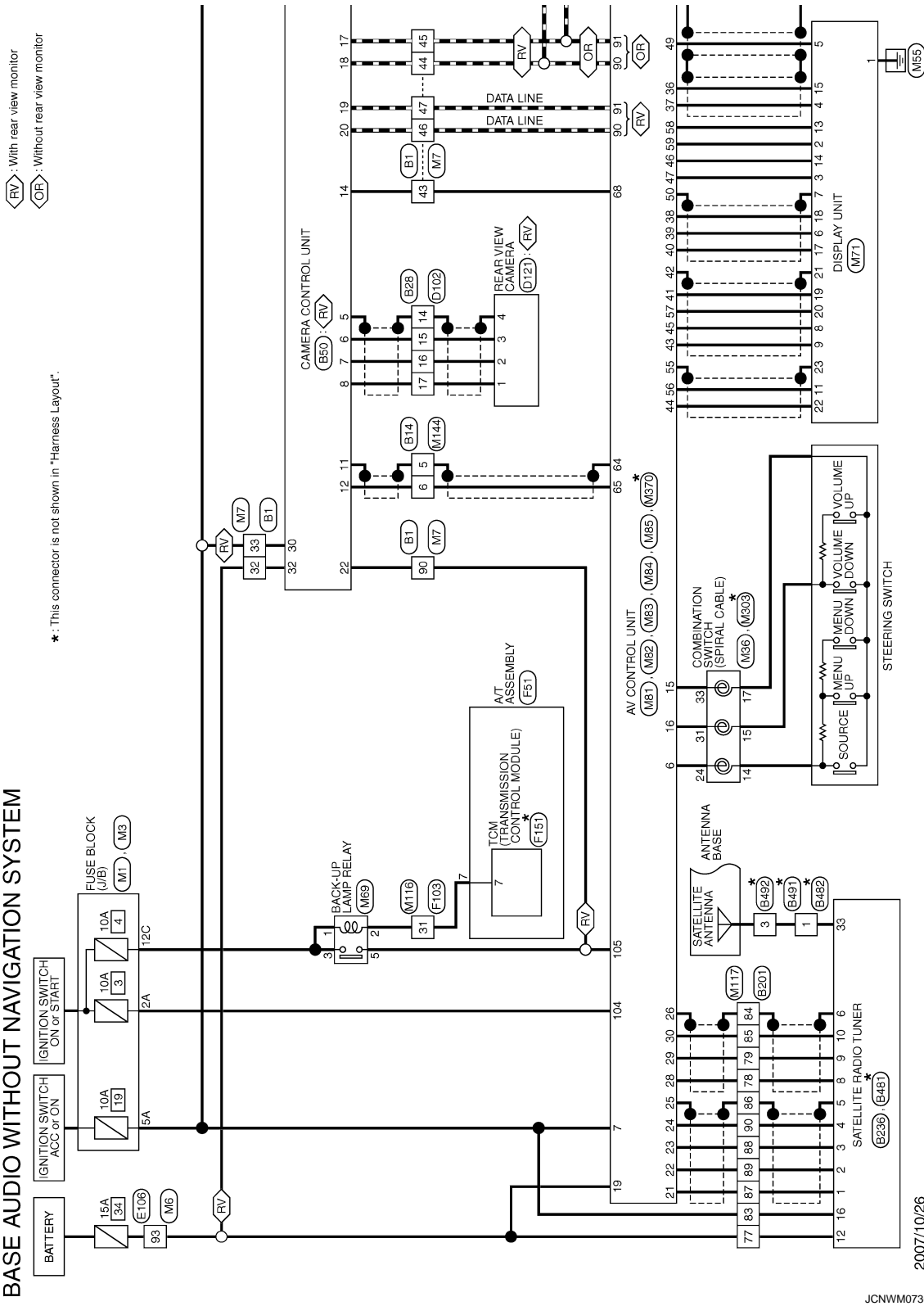
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Wiring Diagram - BASE AUDIO WITHOUT NAVIGATION SYSTEM -

INFOID:000000003508428

Click here to view the eWD.

BASE AUDIO WITHOUT NAVIGATION SYSTEM



2007/10/26

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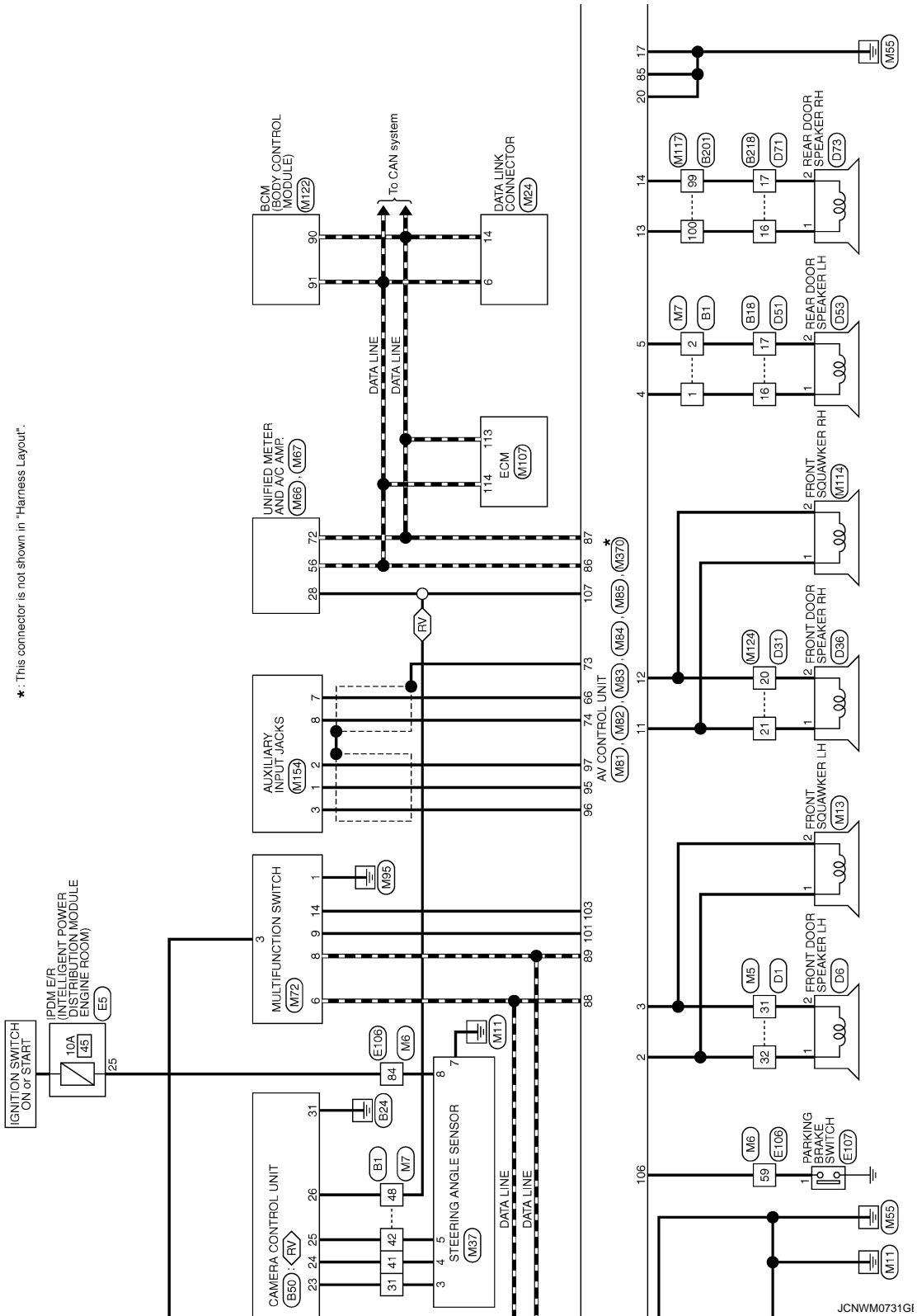
AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

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: With rear view monitor

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



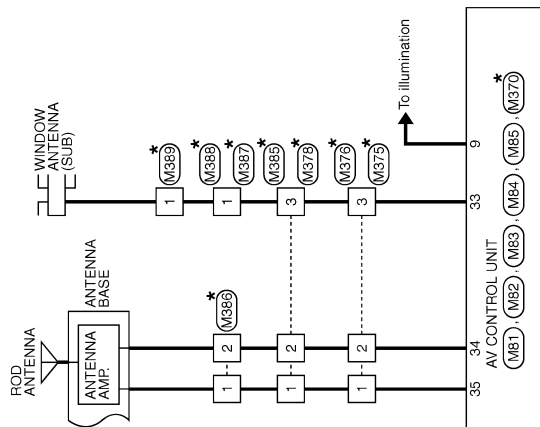
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AV CONTROL UNIT

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[BASE AUDIO WITHOUT NAVIGATION]

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



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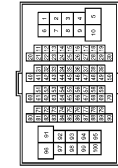
AV CONTROL UNIT

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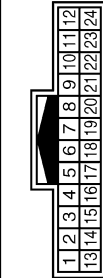
BASE AUDIO WITHOUT NAVIGATION SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	Y	-
31	L	-
32	L	-
33	LG	-
41	BR	-
42	R	-
43	W	-
44	LG	- [Without around view monitor]
45	Y	- [Without around view monitor]
46	G	- [With base audio or with NAVI]

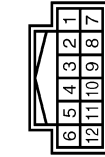
Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	W	- [Without around view monitor]
16	B	- [Without around view monitor]
17	R	- [Without around view monitor]

47	R	- [With base audio or with NAVI]
48	V	-
80	O	-

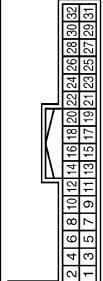
Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	-
6	W	-

22	O	REVERSE
23	L	SENSOR SIGNAL 1
24	BR	SENSOR SIGNAL 2
25	R	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	L	BATTERY

Connector No.	B50
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	W	CAMERA IMAGE SIGNAL
7	B	CAMERA GND
8	R	CAMERA POWER SUPPLY
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
14	W	CONNECTION RECOGNITION
17	V	AV COMM (L) [With base audio or with NAVI]
18	LG	AV COMM (H) [With base audio or with NAVI]
19	R	AV COMM (L) [With base audio or with NAVI]
20	G	AV COMM (H) [With base audio or with NAVI]

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NBS



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

AV CONTROL UNIT

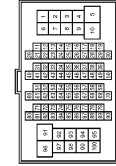
[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

99	P	- [Without BOSE audio]
100	L	-

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



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

Connector No.	B481
Connector Name	SATELLITE RADIO TUNER
Connector Type	FAKRA



Terminal No.	33	Color of Wire	-	Signal Name [Specification]	SATELLITE ANTENNA
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Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TKDFW-NS8



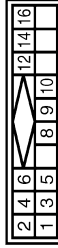
Terminal No.	Color of Wire	Signal Name [Specification]
16	L	-
17	P	- [Without BOSE audio]

Connector No.	B481
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU



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

Connector No.	B236
Connector Name	SATELLITE RADIO TUNER
Connector Type	A1BFW



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

Connector No.	B492
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU



Terminal No.	3	Color of Wire	-	Signal Name [Specification]	SATELLITE ANTENNA
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JCNWM0734GI

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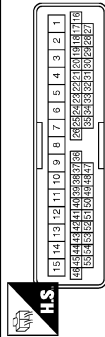
AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

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



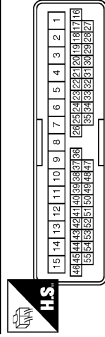
Terminal No.	Color of Wire	Signal Name [Specification]
31	W	-
32	G	-

Connector No.	D6
Connector Name	FRONT DOOR SPEAKER LH (WITHOUT BOSE SYSTEM)
Connector Type	NS02FW-CS



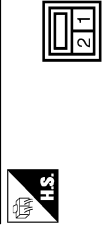
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	W	-

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



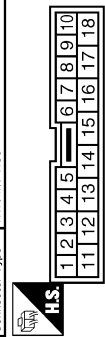
Terminal No.	Color of Wire	Signal Name [Specification]
20	R	- [Without around view monitor]
21	BR	- [Without around view monitor]

Connector No.	D36
Connector Name	FRONT DOOR SPEAKER RH (WITHOUT BOSE SYSTEM)
Connector Type	NS02FW-CS



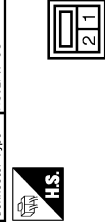
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	R	-

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



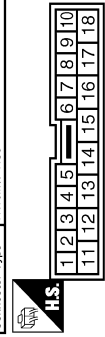
Terminal No.	Color of Wire	Signal Name [Specification]
16	LG	- [Without BOSE audio]
17	Y	- [Without BOSE audio]

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



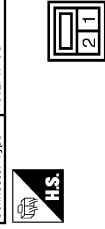
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	Y	-

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
18	L	-
17	Y	-

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



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

JCNWM0735GI

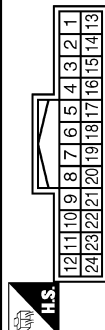
AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



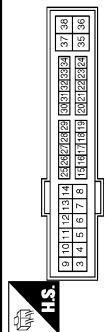
Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	Y	-
16	L	- [Without around view monitor]
17	G	- [Without around view monitor]

Connector No.	D121
Connector Name	REAR VIEW CAMERA
Connector Type	TH40MP-NH



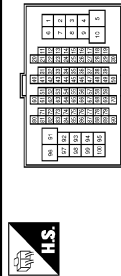
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	CAMERA POWER SUPPLY
2	L	CAMERA GND
3	Y	CAMERA IMAGE SIGNAL
4	SHIELD	SHIELD

Connector No.	E5
Connector Name	SPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-TV



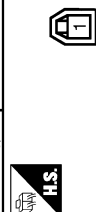
Terminal No.	Color of Wire	Signal Name [Specification]
25	G	-

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

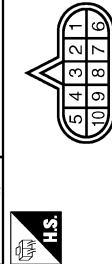


Terminal No.	Color of Wire	Signal Name [Specification]
59	O	-
84	G	-
83	Y	-

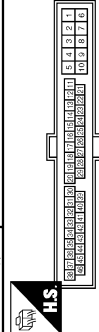
Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB01FW



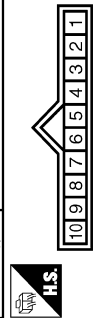
Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK38FW-NS10



Connector No.	F151
Connector Name	TGM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FBGY



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

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

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

Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

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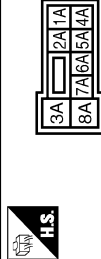
AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

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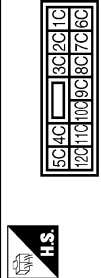
BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NSDBFW-MZ



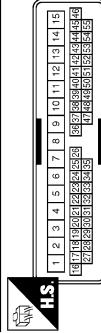
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	V	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS17FW-CS



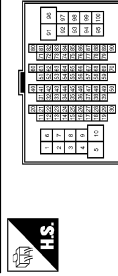
Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS1.5



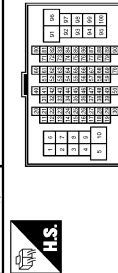
Terminal No.	Color of Wire	Signal Name [Specification]
31	W	-
32	L	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
59	V	-
84	G	-
93	Y	-

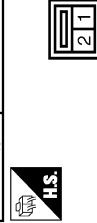
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	L	-
31	L	-
32	Y	-
33	V	-
41	BR	-
42	R	-
43	W	-
44	LG	-
45	V	-
46	G	- [With base audio or with NAVI]

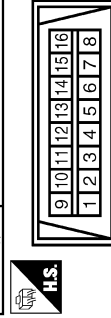
47	R	- [With base audio or with NAVI]
48	V	-
90	O	-

Connector No.	M13
Connector Name	FRONT SOUVANKER LH
Connector Type	TK02FBR



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

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



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

JCNWM0737GI

AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

<table border="1"> <tr><td>Connector No.</td><td>M36</td></tr> <tr><td>Connector Name</td><td>COMBINATION SWITCH (SPIRAL CABLE)</td></tr> <tr><td>Connector Type</td><td>TK08FY-IV</td></tr> </table> <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>24</td><td>P</td><td>-</td></tr> <tr><td>31</td><td>L</td><td>-</td></tr> <tr><td>33</td><td>B</td><td>-</td></tr> </table>	Connector No.	M36	Connector Name	COMBINATION SWITCH (SPIRAL CABLE)	Connector Type	TK08FY-IV	Terminal No.	Color of Wire	Signal Name [Specification]	24	P	-	31	L	-	33	B	-	<table border="1"> <tr><td>Connector No.</td><td>M37</td></tr> <tr><td>Connector Name</td><td>STEERING ANGLE SENSOR</td></tr> <tr><td>Connector Type</td><td>TH40FY-NH</td></tr> </table> <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>3</td><td>L</td><td>SENSOR1</td></tr> <tr><td>4</td><td>BR</td><td>SENSOR2</td></tr> <tr><td>5</td><td>R</td><td>SENSOR3</td></tr> <tr><td>7</td><td>B</td><td>GND</td></tr> <tr><td>8</td><td>G</td><td>IGN</td></tr> </table>	Connector No.	M37	Connector Name	STEERING ANGLE SENSOR	Connector Type	TH40FY-NH	Terminal No.	Color of Wire	Signal Name [Specification]	3	L	SENSOR1	4	BR	SENSOR2	5	R	SENSOR3	7	B	GND	8	G	IGN	<table border="1"> <tr><td>Connector No.</td><td>M66</td></tr> <tr><td>Connector Name</td><td>UNIFIED METER AND A/C AMP.</td></tr> <tr><td>Connector Type</td><td>TH40FY-NH</td></tr> </table> <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>28</td><td>R</td><td>VEHICLE SPEED (8-PULSE)</td></tr> </table>	Connector No.	M66	Connector Name	UNIFIED METER AND A/C AMP.	Connector Type	TH40FY-NH	Terminal No.	Color of Wire	Signal Name [Specification]	28	R	VEHICLE SPEED (8-PULSE)	<table border="1"> <tr><td>Connector No.</td><td>M67</td></tr> <tr><td>Connector Name</td><td>UNIFIED METER AND A/C AMP.</td></tr> <tr><td>Connector Type</td><td>TH42FY-NH</td></tr> </table> <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>56</td><td>L</td><td>CAN-H</td></tr> <tr><td>72</td><td>P</td><td>CAN-L</td></tr> </table>	Connector No.	M67	Connector Name	UNIFIED METER AND A/C AMP.	Connector Type	TH42FY-NH	Terminal No.	Color of Wire	Signal Name [Specification]	56	L	CAN-H	72	P	CAN-L																																																
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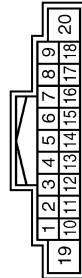
AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

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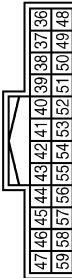
BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M81
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-GSZ



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

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



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

15	B	STRG SW GND
16	L	STRG SW B
17	B	GND
18	Y	BATTERY
19	Y	GND
20	B	GND

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



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
64	SHIELD	SHIELD
65	W	CAMERA IMAGE SIGNAL
66	G	AUX IMAGE SIGNAL
67	W	CONNECTION RECOGNITION
68	SHIELD	SHIELD
69	R	AUX IMAGE GND

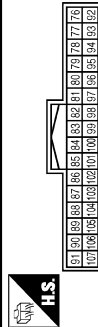
AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

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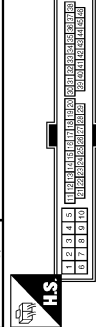
BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M85
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH2FPV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
85	B	GND
86	L	CAN-H
87	P	CAN-L
88	LG	AV COMM (H)
88	V	AV COMM (L)
90	L	AV COMM (H) [Without rear view monitor]
90	G	AV COMM (H) [With rear view monitor]
91	P	AV COMM (L) [Without rear view monitor]
91	R	AV COMM (L) [With rear view monitor]
95	B	AUX SOUND SIGNAL RH (+)
96	R	AUX SOUND SIGNAL LH (+)

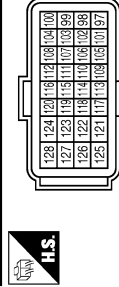
Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK35MW-NS10



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

97	W	AUX SOUND SIGNAL GND
101	BR	SW GND
103	SS	DISK EJECT SIGNAL
104	G	IGNITION
105	O	REVERSE
106	V	PARKING BRAKE
107	R	VEHICLE SPEED (8-PULSE)

Connector No.	M107
Connector Name	ECM
Connector Type	FR24FGY-RZ8-R-LH-Z



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

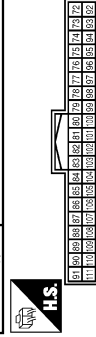
99	P	- [Without BOSE audio]
100	L	- [Without BOSE audio]

Connector No.	M114
Connector Name	FRONT SOLAWKER RH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	- [Without BOSE audio]
2	W	- [Without BOSE audio]

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



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

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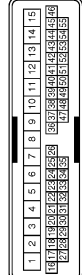
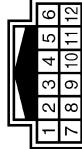
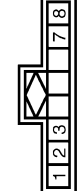


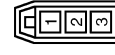

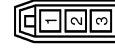
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AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

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BASE AUDIO WITHOUT NAVIGATION SYSTEM

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Connector Type	TH40MW-CS15																								
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17	BR	-																							
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35	-	ANTENNA AMP. ON SIGNAL																							
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Connector Type	GT13SC-2/1S-HU																								
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Connector Name	WIRE TO WIRE																								
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2	-	-																							
3	-	-																							
<table border="1"> <tr><td>Connector No.</td><td>M378</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>GT13SC-2/1S-HU</td></tr> </table> 	Connector No.	M378	Connector Name	WIRE TO WIRE	Connector Type	GT13SC-2/1S-HU	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>-</td><td>-</td></tr> <tr><td>2</td><td>-</td><td>-</td></tr> <tr><td>3</td><td>-</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	-	-	2	-	-	3	-	-						
Connector No.	M378																								
Connector Name	WIRE TO WIRE																								
Connector Type	GT13SC-2/1S-HU																								
Terminal No.	Color of Wire	Signal Name [Specification]																							
1	-	-																							
2	-	-																							
3	-	-																							

JCNWM0741GI

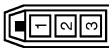
AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SCH-2 / JPP-HU



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

Connector No.	M386
Connector Name	ANTENNA BASE
Connector Type	GT13SCH-1 / JPP-HU



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

Connector No.	M387
Connector Name	WIRE TO WIRE
Connector Type	JASO JACK



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

Connector No.	M388
Connector Name	WIRE TO WIRE
Connector Type	JASO PLUG



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

Connector No.	M389
Connector Name	WINDOW ANTENNA (SUB)
Connector Type	P01FE-A



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

NOTE:

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

DTC Index

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

JCNWM0742GI

INFOID:000000003508429

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

AV

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

DTC	Display item	Refer to
U1000	CAN COMM CIRCUIT [U1000]	AV-40. "Diagnosis Procedure"
U1010	CONTROL UNIT (CAN) [U1010]	AV-41. "Diagnosis Procedure"
U1310	CONTROL UNIT (AV) [U1310]	AV-42. "DTC Logic"
U1200	Control Unit FLASH-ROM [U1200]	AV-43. "DTC Logic"
U1216	CAN CONT [U1216]	AV-44. "DTC Logic"
U1243	FRONT DISP CONN [U1243]	AV-45. "Diagnosis Procedure"
U1250	CAMERA CONT. CONN [U1250]	AV-47. "Diagnosis Procedure"
U1255	SAT CONN [U1255]	AV-48. "Diagnosis Procedure"
U1300 U1240	<ul style="list-style-type: none">• AV COMM CIRCUIT [U1300]• SWITCH CONN [U1240]	AV-50. "Description"
U1300 U1252	<ul style="list-style-type: none">• AV COMM CIRCUIT [U1300]• REAR CAMERA LAN CONN [U1252]	AV-50. "Description"
U1300 U1240 U1252	<ul style="list-style-type: none">• AV COMM CIRCUIT [U1300]• SWITCH CONN [U1240]• REAR CAMERA LAN CONN [U1252]	AV-50. "Description"

DISPLAY UNIT

[BASE AUDIO WITHOUT NAVIGATION]

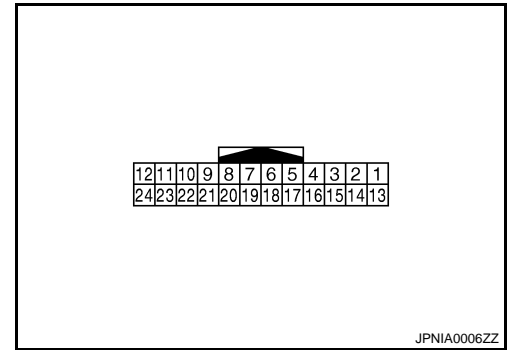
< ECU DIAGNOSIS >

DISPLAY UNIT

Reference Value

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TERMINAL LAYOUT



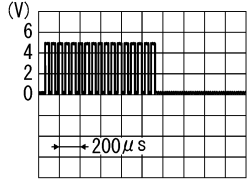
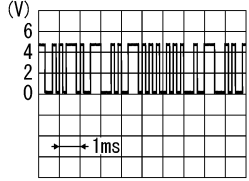
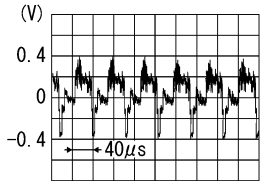
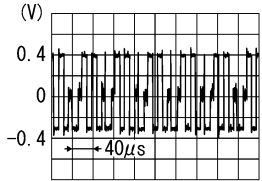
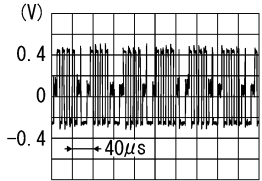
PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
2 (Y)	Ground	Inverter VCC	Input	Ignition switch ACC	—	9.0 V
3 (O)	Ground	Signal VCC	Input	Ignition switch ACC	—	9.0 V
4 (V)	Ground	Composite image ground	—	Ignition switch ON	—	0 V
5 (Y)	—	Shield	—	—	—	—
6 (L)	Ground	RGB signal (G: green)	Input	Ignition switch ON	Start confirmation/adjust- ment mode, and then dis- play color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	<p style="text-align: right;">SKIB2236J</p>
7	—	Shield	—	—	—	—
8 (R)	Ground	Horizontal synchronizing (HP) signal	Output	Ignition switch ON	—	<p style="text-align: right;">SKIB3601E</p>

DISPLAY UNIT

< ECU DIAGNOSIS >

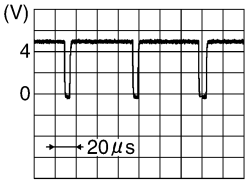
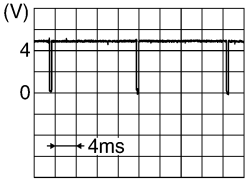
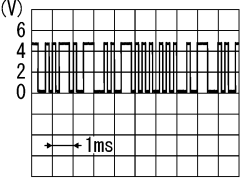
[BASE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition	Reference value (Approx.)
+	-	Signal name	Input/ Output		
9 (B)	Ground	RGB area (YS) signal	Input	Ignition switch ON	At RGB image display 5.0 V
				Ignition switch ON	At AUX image display  PKIB4948J
11 (Y)	Ground	Communication signal (CONT→DISP)	Input	Ignition switch ON	When adjusting display brightness.  PKIB5039J
13 (BR)	Ground	Inverter ground	—	Ignition switch ON	— 0 V
14 (LG)	Ground	Signal ground	—	Ignition switch ON	— 0 V
15 (SB)	Ground	Composite image signal	Input	Ignition switch ON	At AUX image display  SKIB2251J
17 (G)	Ground	RGB signal (R: red)	Input	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.  SKIB2238J
18 (P)	Ground	RGB signal (B: blue)	Input	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.  SKIB2237J

DISPLAY UNIT

< ECU DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
19 (W)	Ground	RGB synchronizing signal	Input	Ignition switch ON	—	 <p>SKIB3603E</p>
20 (G)	Ground	Vertical synchronizing (VP) signal	Output	Ignition switch On	—	 <p>SKIB3598E</p>
21	—	Shield	—	—	—	—
22 (BR)	Ground	Communication signal (DISP→CONT)	Output	Ignition switch ON	When adjusting display brightness.	 <p>PKIB5039J</p>
23	—	Shield	—	—	—	—

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DISPLAY UNIT

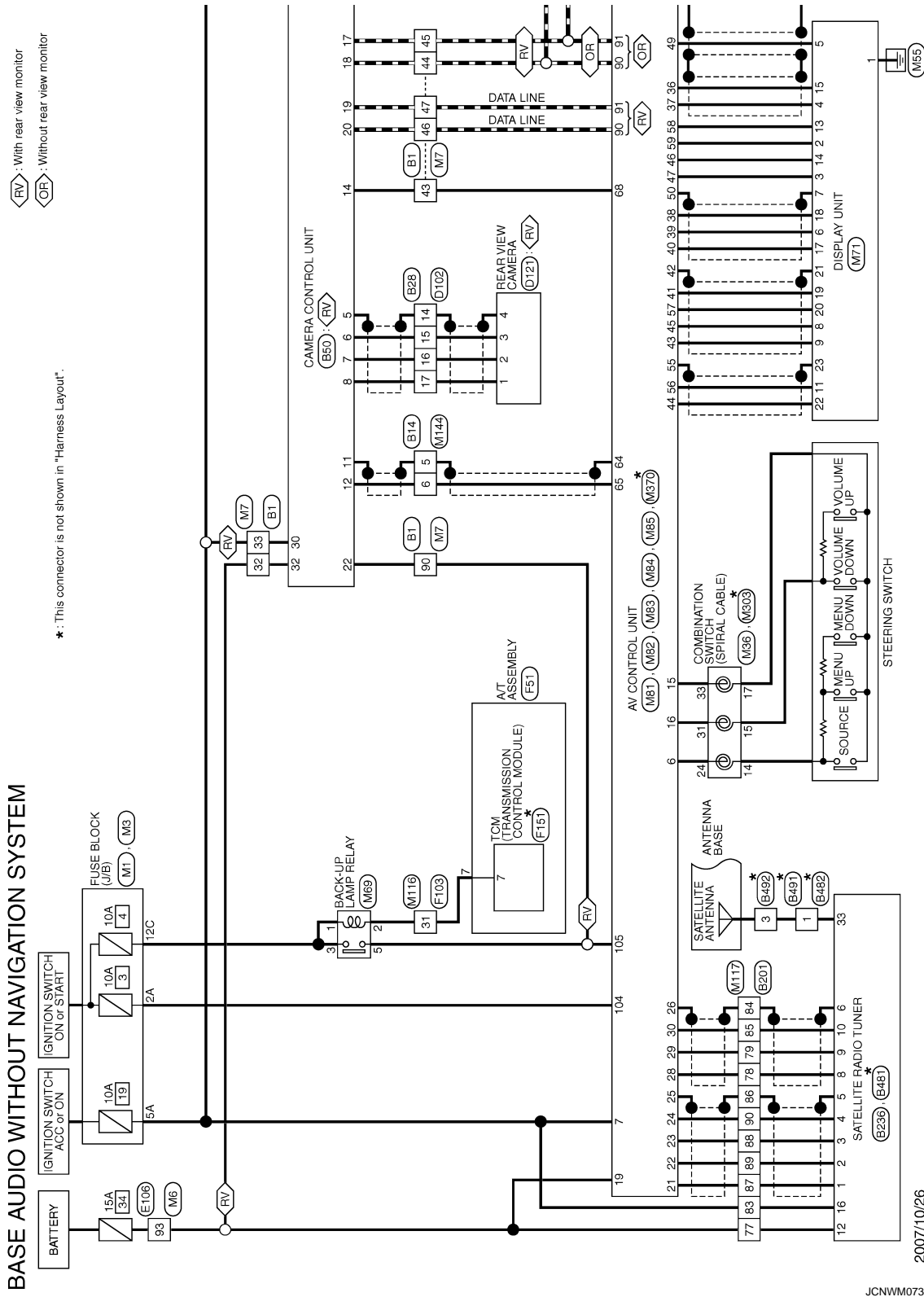
[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

Wiring Diagram - BASE AUDIO WITHOUT NAVIGATION SYSTEM -

INFOID:000000003737119

Click here to view the eWD.



2007/10/26

JCNWM0730GI

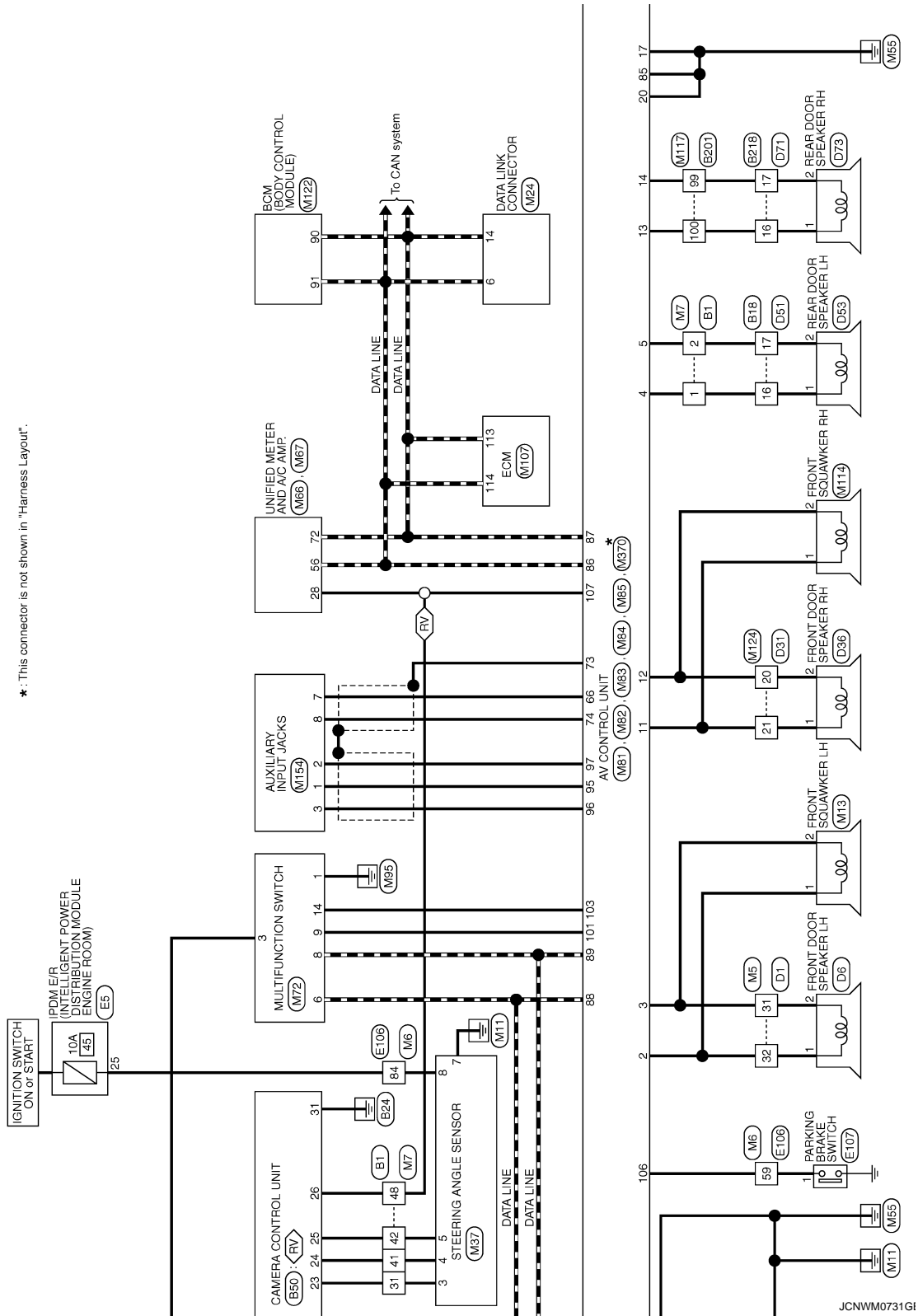
DISPLAY UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

: With rear view monitor

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



JCNWM0731G1

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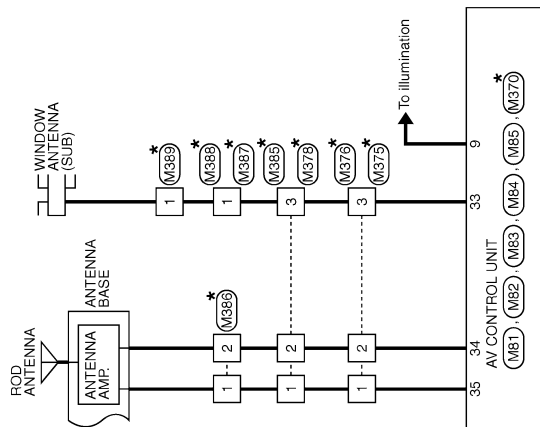
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DISPLAY UNIT

< ECU DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

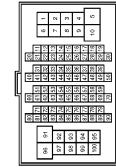
*: This connector is not shown in "Harness Layout".



JCNWM0732GI

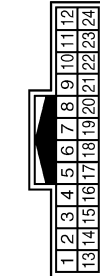
BASE AUDIO WITHOUT NAVIGATION SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	Y	-
31	L	-
32	L	-
33	LG	-
41	BR	-
42	R	-
43	W	-
44	LG	- [Without around view monitor]
45	Y	- [Without around view monitor]
46	G	- [With base audio or with NAVI]

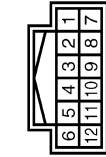
Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	W	- [Without around view monitor]
16	B	- [Without around view monitor]
17	R	- [Without around view monitor]

47	R	- [With base audio or with NAVI]
48	V	-
80	O	-

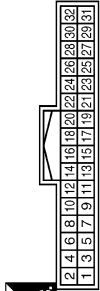
Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	-
6	W	-

22	O	REVERSE
23	L	SENSOR SIGNAL 1
24	BR	SENSOR SIGNAL 2
25	R	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	L	BATTERY

Connector No.	B50
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	W	CAMERA IMAGE SIGNAL
7	B	CAMERA GND
8	R	CAMERA POWER SUPPLY
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
14	W	CONNECTION RECOGNITION
17	V	AV GNDM (L) [With base audio or with NAVI]
18	LG	AV GNDM (H) [With base audio or with NAVI]
19	R	AV GNDM (L) [With base audio or with NAVI]
20	G	AV GNDM (H) [With base audio or with NAVI]

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



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

JCNWM0733G1

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D
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F
G
H
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M
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O
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AV

DISPLAY UNIT

< ECU DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B238
Connector Name	SATELLITE RADIO TUNER
Connector Type	FA18FW



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

Connector No.	B492
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU



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

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-1S8



Terminal No.	Color of Wire	Signal Name [Specification]
16	L	- [Without BOSE audio]
17	P	- [Without BOSE audio]

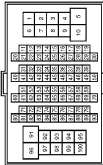
Connector No.	B481
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU



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

99	P	- [Without BOSE audio]
100	L	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
77	Y	-
78	L	-
79	G	-
83	V	-
84	SHIELD	-
85	P	-
86	SHIELD	-
87	G	-
88	W	-
89	R	-
90	B	-

Connector No.	B482
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU



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

Connector No.	B481
Connector Name	SATELLITE RADIO TUNER
Connector Type	FAKRA

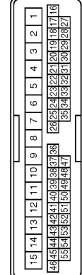


Terminal No.	33
Color of Wire	-
Signal Name [Specification]	SATELLITE ANTENNA


JCNWM0734GI

BASE AUDIO WITHOUT NAVIGATION SYSTEM


Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH4DFW-CS15



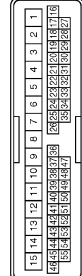
Connector No.	D36
Connector Name	FRONT DOOR SPEAKER RH (WITHOUT BOSE SYSTEM)
Connector Type	NS02FW-CS



Connector No.	D6
Connector Name	FRONT DOOR SPEAKER LH (WITHOUT BOSE SYSTEM)
Connector Type	NS02FW-CS



Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH4DFW-CS15




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

Terminal No.	Color of Wire	Signal Name [Specification]
20	R	- [Without around view monitor]
21	BR	- [Without around view monitor]


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

Terminal No.	Color of Wire	Signal Name [Specification]
31	W	-
32	G	-


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




Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



Connector No.	D63
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS02FW-CS



Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



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

Terminal No.	Color of Wire	Signal Name [Specification]
17	Y	-
18	L	-

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

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

JCNWM0735GI

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F
G
H
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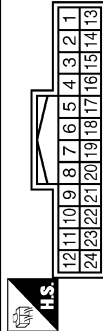
DISPLAY UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH247V-NH



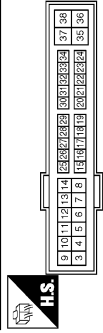
Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	Y	-
16	L	- [Without around view monitor]
17	G	- [Without around view monitor]

Connector No.	D121
Connector Name	REAR VIEW CAMERA
Connector Type	TH40MP-NH



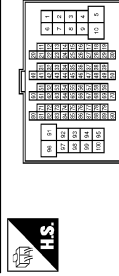
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	CAMERA POWER SUPPLY
2	L	CAMERA GND
3	Y	CAMERA IMAGE SIGNAL
4	SHIELD	SHIELD

Connector No.	E5
Connector Name	FPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-IV



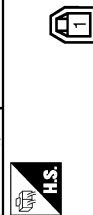
Terminal No.	Color of Wire	Signal Name [Specification]
25	G	-

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

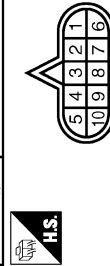


Terminal No.	Color of Wire	Signal Name [Specification]
59	O	-
84	G	-
93	Y	-

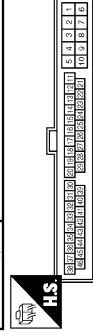
Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB01FW



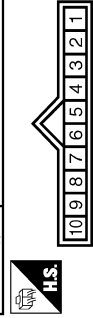
Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK30FW-NS10



Connector No.	F151
Connector Name	TGM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FBGY



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

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

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


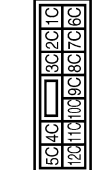
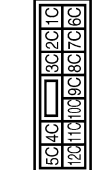
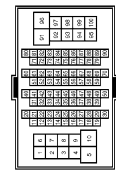
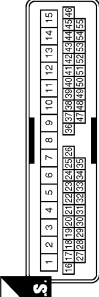
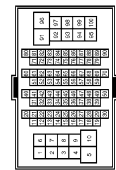

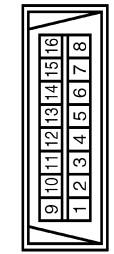

Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

DISPLAY UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

<table border="1"> <tr><td>Connector No.</td><td>M1</td></tr> <tr><td>Connector Name</td><td>FUSE BLOCK (J/B)</td></tr> <tr><td>Connector Type</td><td>NSD6FV-M2</td></tr> </table>  <p>H.S.</p>	Connector No.	M1	Connector Name	FUSE BLOCK (J/B)	Connector Type	NSD6FV-M2	<table border="1"> <tr><td>Terminal No.</td><td>5A</td></tr> <tr><td>Color of Wire</td><td>V</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>	Terminal No.	5A	Color of Wire	V	Signal Name [Specification]	-																																																												
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<table border="1"> <tr><td>Connector No.</td><td>M2</td></tr> <tr><td>Connector Name</td><td>FUSE BLOCK (J/B)</td></tr> <tr><td>Connector Type</td><td>NS12FIV-CS</td></tr> </table>  <p>H.S.</p>	Connector No.	M2	Connector Name	FUSE BLOCK (J/B)	Connector Type	NS12FIV-CS	<table border="1"> <tr><td>Terminal No.</td><td>12C</td></tr> <tr><td>Color of Wire</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>	Terminal No.	12C	Color of Wire	O	Signal Name [Specification]	-																																																												
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<table border="1"> <tr><td>Connector No.</td><td>M3</td></tr> <tr><td>Connector Name</td><td>FUSE BLOCK (J/B)</td></tr> <tr><td>Connector Type</td><td>NS12FIV-CS</td></tr> </table>  <p>H.S.</p>	Connector No.	M3	Connector Name	FUSE BLOCK (J/B)	Connector Type	NS12FIV-CS	<table border="1"> <tr><td>Terminal No.</td><td>47</td></tr> <tr><td>Color of Wire</td><td>R</td></tr> <tr><td>Signal Name [Specification]</td><td>- [With base audio or with NAVI]</td></tr> </table>	Terminal No.	47	Color of Wire	R	Signal Name [Specification]	- [With base audio or with NAVI]																																																												
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<table border="1"> <tr><td>Connector No.</td><td>M4</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH80MW-CS16-TM4</td></tr> </table>  <p>H.S.</p>	Connector No.	M4	Connector Name	WIRE TO WIRE	Connector Type	TH80MW-CS16-TM4	<table border="1"> <tr><td>Terminal No.</td><td>59</td></tr> <tr><td>Color of Wire</td><td>V</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>84</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>83</td></tr> <tr><td>Color of Wire</td><td>Y</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>	Terminal No.	59	Color of Wire	V	Signal Name [Specification]	-	Terminal No.	84	Color of Wire	G	Signal Name [Specification]	-	Terminal No.	83	Color of Wire	Y	Signal Name [Specification]	-																																																
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<table border="1"> <tr><td>Connector No.</td><td>M5</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH80MW-CS1.5</td></tr> </table>  <p>H.S.</p>	Connector No.	M5	Connector Name	WIRE TO WIRE	Connector Type	TH80MW-CS1.5	<table border="1"> <tr><td>Terminal No.</td><td>31</td></tr> <tr><td>Color of Wire</td><td>W</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>32</td></tr> <tr><td>Color of Wire</td><td>L</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>	Terminal No.	31	Color of Wire	W	Signal Name [Specification]	-	Terminal No.	32	Color of Wire	L	Signal Name [Specification]	-																																																						
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<table border="1"> <tr><td>Connector No.</td><td>M7</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH80MW-CS16-TM4</td></tr> </table>  <p>H.S.</p>	Connector No.	M7	Connector Name	WIRE TO WIRE	Connector Type	TH80MW-CS16-TM4	<table border="1"> <tr><td>Terminal No.</td><td>1</td></tr> <tr><td>Color of Wire</td><td>LG</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>2</td></tr> <tr><td>Color of Wire</td><td>L</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>31</td></tr> <tr><td>Color of Wire</td><td>L</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>32</td></tr> <tr><td>Color of Wire</td><td>Y</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>33</td></tr> <tr><td>Color of Wire</td><td>V</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>41</td></tr> <tr><td>Color of Wire</td><td>BR</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>42</td></tr> <tr><td>Color of Wire</td><td>R</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>43</td></tr> <tr><td>Color of Wire</td><td>W</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>44</td></tr> <tr><td>Color of Wire</td><td>LG</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>45</td></tr> <tr><td>Color of Wire</td><td>V</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>46</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td>- [With base audio or with MAVI]</td></tr> </table>	Terminal No.	1	Color of Wire	LG	Signal Name [Specification]	-	Terminal No.	2	Color of Wire	L	Signal Name [Specification]	-	Terminal No.	31	Color of Wire	L	Signal Name [Specification]	-	Terminal No.	32	Color of Wire	Y	Signal Name [Specification]	-	Terminal No.	33	Color of Wire	V	Signal Name [Specification]	-	Terminal No.	41	Color of Wire	BR	Signal Name [Specification]	-	Terminal No.	42	Color of Wire	R	Signal Name [Specification]	-	Terminal No.	43	Color of Wire	W	Signal Name [Specification]	-	Terminal No.	44	Color of Wire	LG	Signal Name [Specification]	-	Terminal No.	45	Color of Wire	V	Signal Name [Specification]	-	Terminal No.	46	Color of Wire	G	Signal Name [Specification]	- [With base audio or with MAVI]
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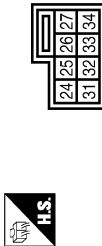
DISPLAY UNIT

[BASE AUDIO WITHOUT NAVIGATION]

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BASE AUDIO WITHOUT NAVIGATION SYSTEM

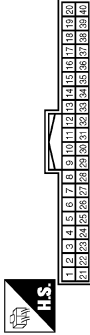
Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08GY-IV



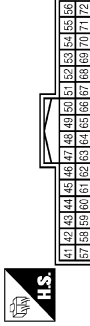
Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH40FW-NH



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



Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH42FW-NH



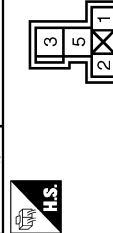
Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
31	L	-
33	B	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN

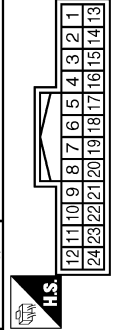
Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

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

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2

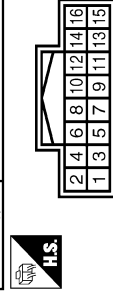


Connector No.	M71
Connector Name	DISPLAY UNIT (WITHOUT NAVI)
Connector Type	TH42FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	LG	SIGNAL GND
15	SB	COMPOSITE IMAGE SIGNAL
17	G	RGB (R: RED) SIGNAL
18	P	RGB (G: BLUE) SIGNAL
19	W	RGB SYNC
20	G	VP
21	SHIELD	SHIELD
22	BR	COMM (DISP->CONT)
23	SHIELD	SHIELD

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



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

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

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

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DISPLAY UNIT

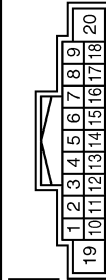
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BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M81
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-CSZ



15	B	STRG SW GND
16	L	STRG SW B
17	B	GND
18	Y	BATTERY
20	B	GND

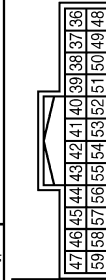
Connector No.	M82
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	A12FW



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

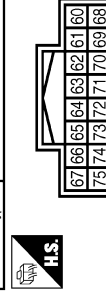
Terminal No.	Color of Wire	Signal Name [Specification]
21	W	SATELLITE SOUND SIGNAL LH (-)
22	B	SATELLITE SOUND SIGNAL LH (+)
23	R	SATELLITE SOUND SIGNAL RH (-)
24	G	SATELLITE SOUND SIGNAL RH (+)
25	G	SHIELD
26	SHIELD	SHIELD
28	W	REQUEST (SAT->CONT)
29	B	COMM (SAT->CONT)
30	R	COMM (CONT->SAT)

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



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

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





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

Terminal No.	Color of Wire	Signal Name [Specification]
64	SHIELD	SHIELD
65	W	CAMERA IMAGE SIGNAL
66	G	AUX IMAGE SIGNAL
68	W	CONNECTION RECOGNITION
73	SHIELD	SHIELD
74	R	AUX IMAGE GND

JCNWM0739GI



BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M388
Connector Name	WIRE TO WIRE
Connector Type	JASCO PLUG



Terminal No.	1	Color of Wire	-	Signal Name [Specification]	-
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Connector No.	M387
Connector Name	WIRE TO WIRE
Connector Type	JASCO JACK



Terminal No.	1	Color of Wire	-	Signal Name [Specification]	-
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Connector No.	M386
Connector Name	ANTENNA BASE
Connector Type	GT13SSN-1 /IPP-HU



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

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SCF-2 /IPP-HU

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

Connector No.	M389
Connector Name	WINDOW ANTENNA (SUB)
Connector Type	P01FE-A

Terminal No.	1	Color of Wire	-	Signal Name [Specification]	-
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Terminal No.	1	Color of Wire	-	Signal Name [Specification]	-
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JCNWM0742GI

NOTE:

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

CAMERA CONTROL UNIT

< ECU DIAGNOSIS >

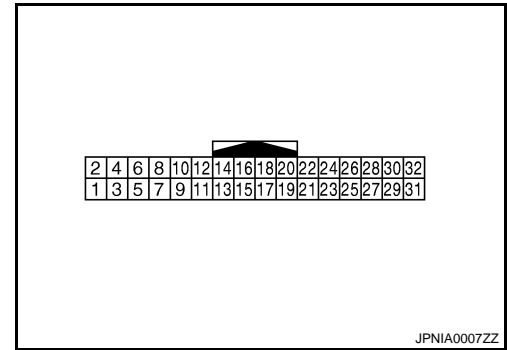
[BASE AUDIO WITHOUT NAVIGATION]

CAMERA CONTROL UNIT

Reference Value

INFOID:000000003513788

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
5	—	Shield	—	—	—	—
6 (W)	Ground	Camera image signal	Input	Ignition switch ON	At rear view camera image display	
7 (B)	Ground	Camera ground	—	Ignition switch ON	—	0 V
8 (R)	Ground	Camera power supply	Output	Ignition switch ON	R position Other than R position	6.0 V 0 V
11	—	Shield	—	—	—	—
12 (W)	Ground	Camera image signal	Output	Ignition switch ON	At rear view camera image display	
14 (W)	Ground	Camera-connection recog- nition signal	—	Ignition switch ON	Connected to camera con- trol unit connector Not connected to camera control unit connector	0 V 5.0 V
17 (V)	—	AV communication signal (L)	Input/ Output	—	—	—
18 (LG)	—	AV communication signal (H)	Input/ Output	—	—	—
19 (R)	—	AV communication signal (L)	Input/ Output	—	—	—

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CAMERA CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

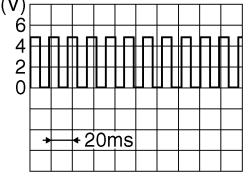
< ECU DIAGNOSIS >

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
20 (G)	—	AV communication signal (H)	Input/ Output	—	—	—
22 (O)	Ground	Reverse signal	Input	Ignition switch ON	R position	12.0 V
					Other than R position	0 V
23 (L)	Ground	Sensor signal 1	Input	Ignition switch ON	Turn the steering to the right	<p style="text-align: right; font-size: small;">SKIB3827E</p> <p>A: Sensor signal 1 B: Sensor signal 2</p>
					Turn the steering to the left	<p style="text-align: right; font-size: small;">SKIB3828E</p> <p>A: Sensor signal 1 B: Sensor signal 2</p>
24 (BR)	Ground	Sensor signal 2	Input	Ignition switch ON	Turn the steering to the right	<p style="text-align: right; font-size: small;">SKIB3827E</p> <p>A: Sensor signal 1 B: Sensor signal 2</p>
					Turn the steering to the left	<p style="text-align: right; font-size: small;">SKIB3828E</p> <p>A: Sensor signal 1 B: Sensor signal 2</p>
25 (R)	Ground	Sensor signal 3	Input	Ignition switch ON	Turn the steering around the neutral position	<p style="text-align: right; font-size: small;">SKIB3829E</p> <p>A: Sensor signal 3 B: Sensor signal 1</p>

CAMERA CONTROL UNIT

< ECU DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
26 (V)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is ap- prox. 40 km/h (25 MPH)	<p>NOTE: Maximum voltage may be 12 V due to specifications (connected units).</p>  <p style="text-align: right; font-size: small;">SKIA6649J</p>
30 (LG)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
31 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
32 (L)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage

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CAMERA CONTROL UNIT

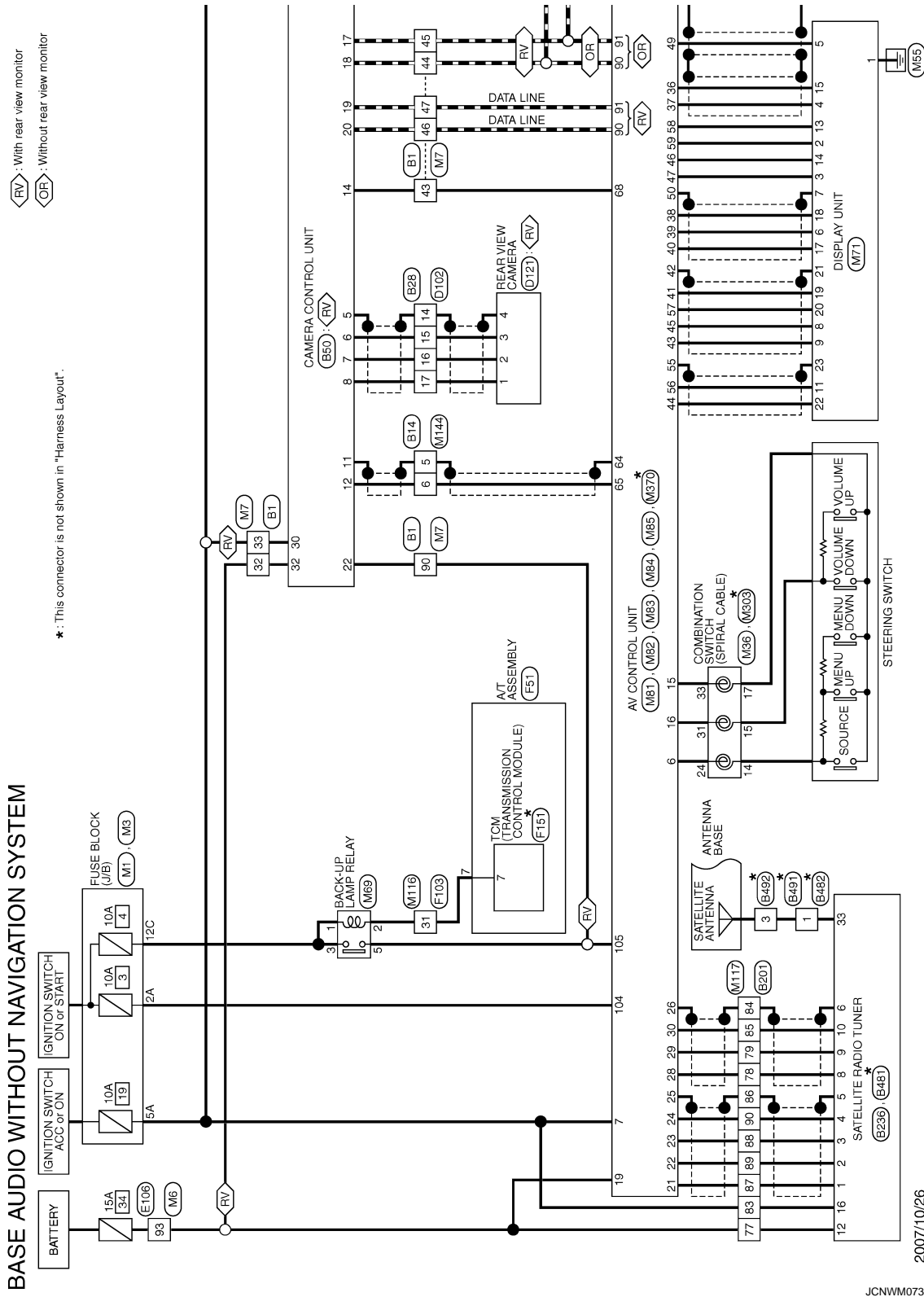
[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

Wiring Diagram - BASE AUDIO WITHOUT NAVIGATION SYSTEM -

INFOID:00000000373120

Click here to view the eWD.



2007/10/26

JCNWM0730GI

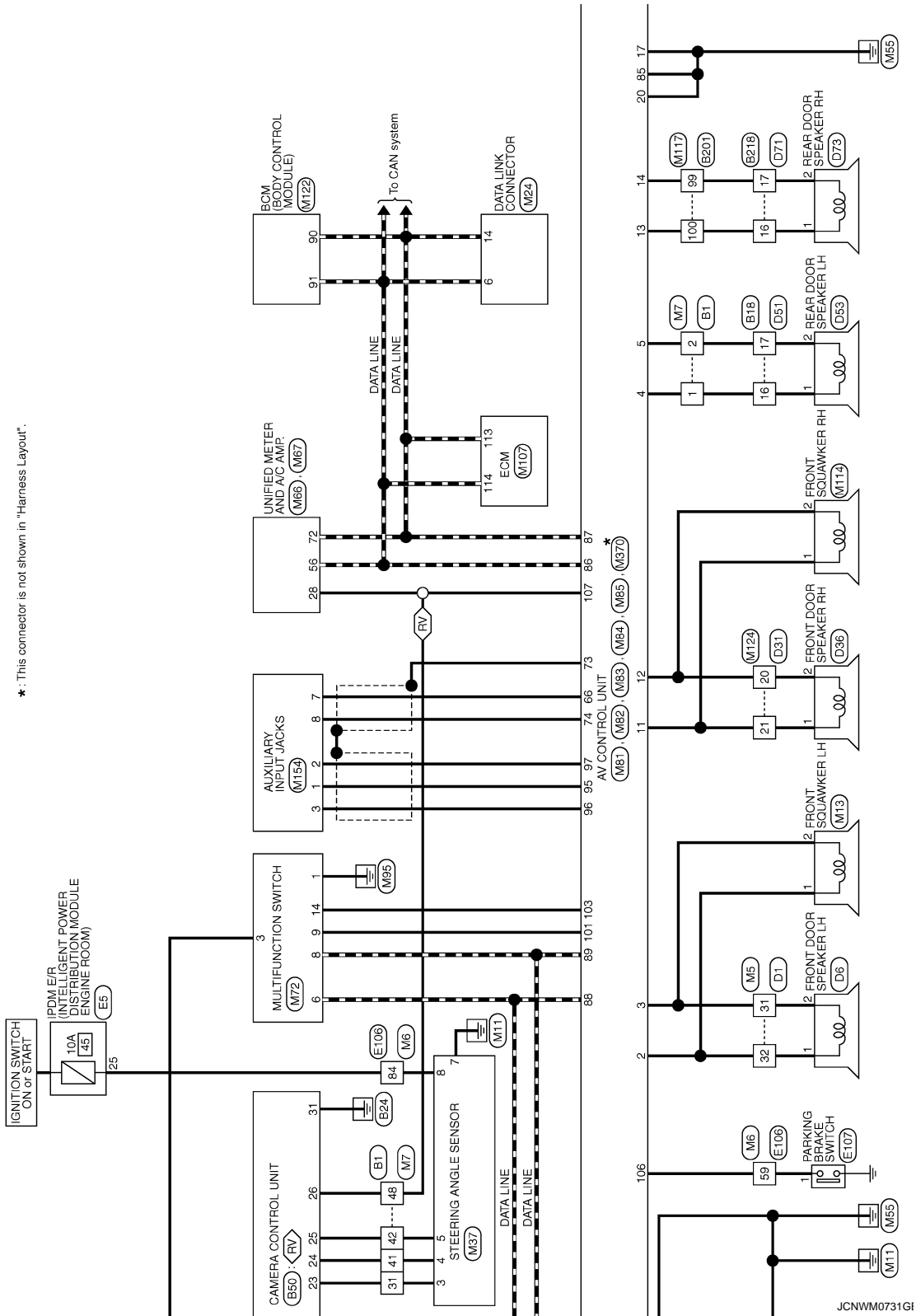
CAMERA CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

: With rear view monitor

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



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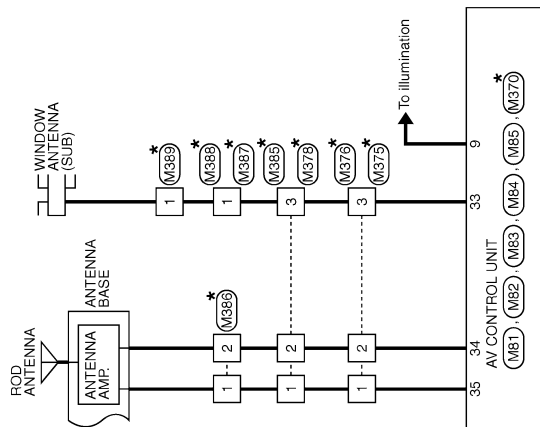
AV

CAMERA CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

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



JCNWM0732GI

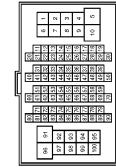
CAMERA CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

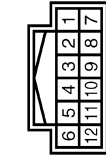
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	Y	-
31	L	-
32	L	-
33	LG	-
41	BR	-
42	R	-
43	W	-
44	LG	- [Without around view monitor]
45	Y	- [Without around view monitor]
46	G	- [With base audio or with NAVI]

47	R	- [With base audio or with NAVI]
48	V	-
80	O	-

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



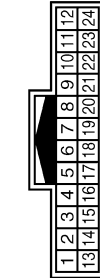
Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	-
6	W	-

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

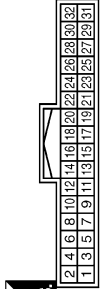


Terminal No.	Color of Wire	Signal Name [Specification]
16	LG	- [Without BOSE audio]
17	Y	- [Without BOSE audio]

Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Connector No.	B50
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH42FW-NH



22	O	REVERSE
23	L	SENSOR SIGNAL 1
24	BR	SENSOR SIGNAL 2
25	R	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	L	BATTERY

Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	W	- [Without around view monitor]
16	B	- [Without around view monitor]
17	R	- [Without around view monitor]

Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	W	CAMERA IMAGE SIGNAL
7	B	CAMERA GND
8	R	CAMERA POWER SUPPLY
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
14	W	CONNECTION RECOGNITION
17	V	AV GNDM (L) [With base audio or with NAVI]
18	LG	AV GNDM (H) [With base audio or with NAVI]
19	R	AV GNDM (L) [With base audio or with NAVI]
20	G	AV GNDM (H) [With base audio or with NAVI]

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CAMERA CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B238
Connector Name	SATELLITE RADIO TUNER
Connector Type	A18FW



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

Connector No.	B492
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU



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

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-1S8



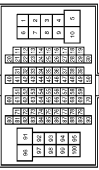
Terminal No.	Color of Wire	Signal Name [Specification]
16	L	- [Without BOSE audio]
17	P	- [Without BOSE audio]

Connector No.	B481
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU



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

99	P	- [Without BOSE audio]
100	L	-



Terminal No.	Color of Wire	Signal Name [Specification]
77	Y	-
78	L	-
79	G	-
83	V	-
84	SHIELD	-
85	P	-
86	SHIELD	-
87	G	-
88	W	-
89	R	-
90	B	-

Connector No.	B482
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU



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

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



Connector No.	B481
Connector Name	SATELLITE RADIO TUNER
Connector Type	FAKRA



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

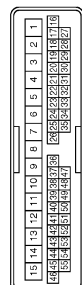

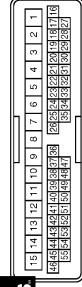



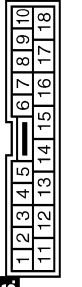

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CAMERA CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No. D1	WIRE TO WIRE	TH4FW-CS15		Terminal No. 31	Color of Wire W	Signal Name [Specification]	
Connector No. D6	FRONT DOOR SPEAKER LH (WITHOUT BOSE SYSTEM)	NS02FW-CS		Terminal No. 1	Color of Wire G	Signal Name [Specification]	
Connector No. D31	WIRE TO WIRE	TH4FW-CS15		Terminal No. 20	Color of Wire R	Signal Name [Specification]	
Connector No. D63	FRONT DOOR SPEAKER RH (WITHOUT BOSE SYSTEM)	NS02FW-CS		Terminal No. 1	Color of Wire BR	Signal Name [Specification]	
Connector No. D51	WIRE TO WIRE	TK10MW-NS8		Terminal No. 17	Color of Wire Y	Signal Name [Specification]	
Connector No. D53	REAR DOOR SPEAKER LH	NS02FW-CS		Terminal No. 1	Color of Wire LG	Signal Name [Specification]	
Connector No. D71	WIRE TO WIRE	TK10MW-NS8		Terminal No. 18	Color of Wire L	Signal Name [Specification]	
Connector No. D73	REAR DOOR SPEAKER RH	NS02FW-CS		Terminal No. 2	Color of Wire Y	Signal Name [Specification]	

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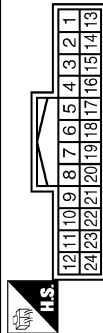
CAMERA CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH247V-NH



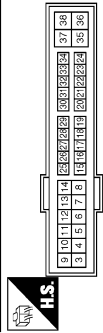
Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	Y	-
16	L	- [Without around view monitor]
17	G	- [Without around view monitor]

Connector No.	D121
Connector Name	REAR VIEW CAMERA
Connector Type	TH40MP-NH



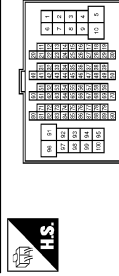
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	CAMERA POWER SUPPLY
2	L	CAMERA GND
3	Y	CAMERA IMAGE SIGNAL
4	SHIELD	SHIELD

Connector No.	E5
Connector Name	FPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-IV



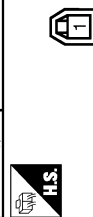
Terminal No.	Color of Wire	Signal Name [Specification]
25	G	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS19-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
59	O	-
84	G	-
93	Y	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB01FW



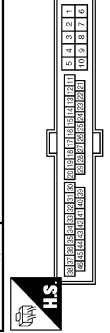
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



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

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK30FW-NS10



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

Connector No.	F151
Connector Name	TGM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FBGY



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY


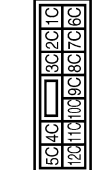
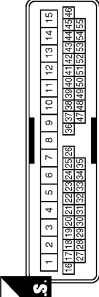



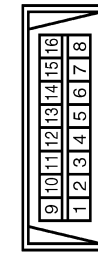
JCNWM07366I

CAMERA CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

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<table border="1"> <tr><td>Connector No.</td><td>M3</td></tr> <tr><td>Connector Name</td><td>FUSE BLOCK (J/B)</td></tr> <tr><td>Connector Type</td><td>NS12FV-CS</td></tr> </table>  <p>H.S.</p>	Connector No.	M3	Connector Name	FUSE BLOCK (J/B)	Connector Type	NS12FV-CS	<table border="1"> <tr><td>Terminal No.</td><td>12C</td></tr> <tr><td>Color of Wire</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>	Terminal No.	12C	Color of Wire	O	Signal Name [Specification]	-																																																					
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Signal Name [Specification]	-																																																																	
<table border="1"> <tr><td>Connector No.</td><td>M5</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH80MW-CS1.5</td></tr> </table>  <p>H.S.</p>	Connector No.	M5	Connector Name	WIRE TO WIRE	Connector Type	TH80MW-CS1.5	<table border="1"> <tr><td>Terminal No.</td><td>31</td></tr> <tr><td>Color of Wire</td><td>W</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>32</td></tr> <tr><td>Color of Wire</td><td>L</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>	Terminal No.	31	Color of Wire	W	Signal Name [Specification]	-	Terminal No.	32	Color of Wire	L	Signal Name [Specification]	-																																															
Connector No.	M5																																																																	
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<table border="1"> <tr><td>Connector No.</td><td>M6</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH80MW-CS16-TM4</td></tr> </table>  <p>H.S.</p>	Connector No.	M6	Connector Name	WIRE TO WIRE	Connector Type	TH80MW-CS16-TM4	<table border="1"> <tr><td>Terminal No.</td><td>59</td></tr> <tr><td>Color of Wire</td><td>V</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>84</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>83</td></tr> <tr><td>Color of Wire</td><td>Y</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>	Terminal No.	59	Color of Wire	V	Signal Name [Specification]	-	Terminal No.	84	Color of Wire	G	Signal Name [Specification]	-	Terminal No.	83	Color of Wire	Y	Signal Name [Specification]	-																																									
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<table border="1"> <tr><td>Connector No.</td><td>M7</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH80MW-CS16-TM4</td></tr> </table>  <p>H.S.</p>	Connector No.	M7	Connector Name	WIRE TO WIRE	Connector Type	TH80MW-CS16-TM4	<table border="1"> <tr><td>Terminal No.</td><td>47</td></tr> <tr><td>Color of Wire</td><td>R</td></tr> <tr><td>Signal Name [Specification]</td><td>- [With base audio or with NAVI]</td></tr> <tr><td>Terminal No.</td><td>48</td></tr> <tr><td>Color of Wire</td><td>V</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>90</td></tr> <tr><td>Color of Wire</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>	Terminal No.	47	Color of Wire	R	Signal Name [Specification]	- [With base audio or with NAVI]	Terminal No.	48	Color of Wire	V	Signal Name [Specification]	-	Terminal No.	90	Color of Wire	O	Signal Name [Specification]	-																																									
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<table border="1"> <tr><td>Connector No.</td><td>M13</td></tr> <tr><td>Connector Name</td><td>FRONT SQUARE LH</td></tr> <tr><td>Connector Type</td><td>TK02FBR</td></tr> </table>  <p>H.S.</p>	Connector No.	M13	Connector Name	FRONT SQUARE LH	Connector Type	TK02FBR	<table border="1"> <tr><td>Terminal No.</td><td>1</td></tr> <tr><td>Color of Wire</td><td>L</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>2</td></tr> <tr><td>Color of Wire</td><td>W</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>	Terminal No.	1	Color of Wire	L	Signal Name [Specification]	-	Terminal No.	2	Color of Wire	W	Signal Name [Specification]	-																																															
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Terminal No.	1																																																																	
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JCNWM0737GI

CAMERA CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



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

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



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

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH40FW-NH



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
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Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08GY-IV



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

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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Terminal No.	Color of Wire	Signal Name [Specification]
14	LG	SIGNAL GND
15	SB	COMPOSITE IMAGE SIGNAL
17	G	RGB (R: RED) SIGNAL
18	P	RGB (B: BLUE) SIGNAL
19	W	RGB SYNC
20	G	VP
21	SHIELD	SHIELD
22	BR	COMM (DISP->CONT)
23	SHIELD	SHIELD

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



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
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Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2



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

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

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

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

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

JCNWM07386I

CAMERA CONTROL UNIT

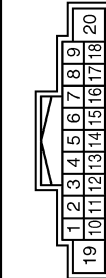
[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

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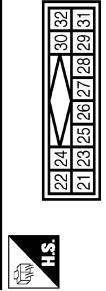
BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M81
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-CSZ



15	B	STRG SW GND
16	L	STRG SW B
17	B	GND
18	Y	BATTERY
20	B	GND

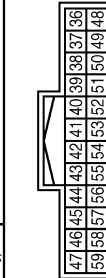
Connector No.	M82
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	A12FW



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

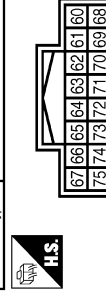
Terminal No.	Color of Wire	Signal Name [Specification]
21	W	SATELLITE SOUND SIGNAL LH (-)
22	B	SATELLITE SOUND SIGNAL LH (+)
23	R	SATELLITE SOUND SIGNAL RH (-)
24	G	SATELLITE SOUND SIGNAL RH (+)
25	G	SHIELD
26	SHIELD	SHIELD
28	W	REQUEST (SAT->CONT)
29	B	COMM (SAT->CONT)
30	R	COMM (CONT->SAT)

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



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

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



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

Terminal No.	Color of Wire	Signal Name [Specification]
64	SHIELD	SHIELD
65	W	CAMERA IMAGE SIGNAL
66	G	AUX IMAGE SIGNAL
68	W	CONNECTION RECOGNITION
73	SHIELD	SHIELD
74	R	AUX IMAGE GND


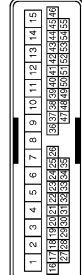

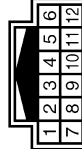








JCNWM0739GI

CAMERA CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M124	Connector No.	M144	Connector No.	M203
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TH40WV-CS15	Connector Type	TH12MPH-NH	Connector Type	TK38FGY
					
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
20	R	- [Without around view monitor]	5	SHIELD	-
21	BR	- [Without around view monitor]	6	W	-
Connector No.	M370	Connector No.	M375	Connector No.	M378
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	GT13SH-2/1S-HU	Connector Type	GT13SC-2/1S-HU	Connector Type	GT13SC-2/1S-HU
					
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
33	-	FM SUB	1	-	-
34	-	AM-FM MAIN	2	-	-
35	-	ANTENNA AMP. ON SIGNAL	3	-	-
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	B	AUX SOUND SIGNAL RH (+)	1	-	-
2	W	AUX SOUND SIGNAL GND	2	-	-
3	R	AUX SOUND SIGNAL LH (+)	3	-	-
7	G	AUX IMAGE SIGNAL			
8	R	AUX IMAGE GND			

JCNWM0741GI

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CAMERA CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SCF-2/1PP-HU



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

Connector No.	M386
Connector Name	ANTENNA BASE
Connector Type	GT13SSN-1/1PP-HU



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

Connector No.	M387
Connector Name	WIRE TO WIRE
Connector Type	JASO JACK



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

Connector No.	M388
Connector Name	WIRE TO WIRE
Connector Type	JASO PLUG



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

Connector No.	M389
Connector Name	WINDOW ANTENNA (SUB)
Connector Type	P01FE-A



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

JCNWM0742GI

NOTE:

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

SATELLITE RADIO TUNER

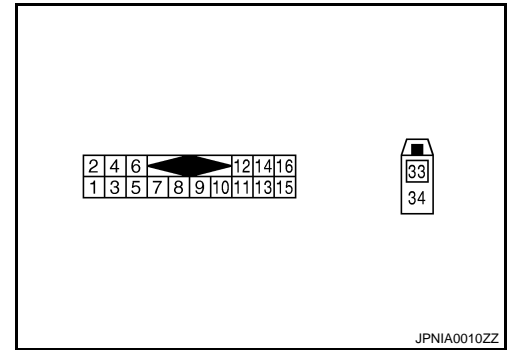
[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

SATELLITE RADIO TUNER

Reference Value

INFOID:000000003508432



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 (L)	Ground	Request signal (SAT→CONT)	Output	Ignition switch ON	When satellite radio mode is selected	
9 (P)	Ground	Communication signal (SAT→CONT)	Output	Ignition switch ON	When satellite radio mode is selected	

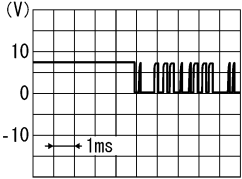
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AV

SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

Terminal		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
10 (G)	Ground	Communication signal (CONT→SAT)	Input	Ignition switch ON	When satellite radio mode is selected	 <p style="text-align: right; font-size: small;">SKIA9301J</p>
12 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
16 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
33	—	Satellite antenna	Input	—	—	—

SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

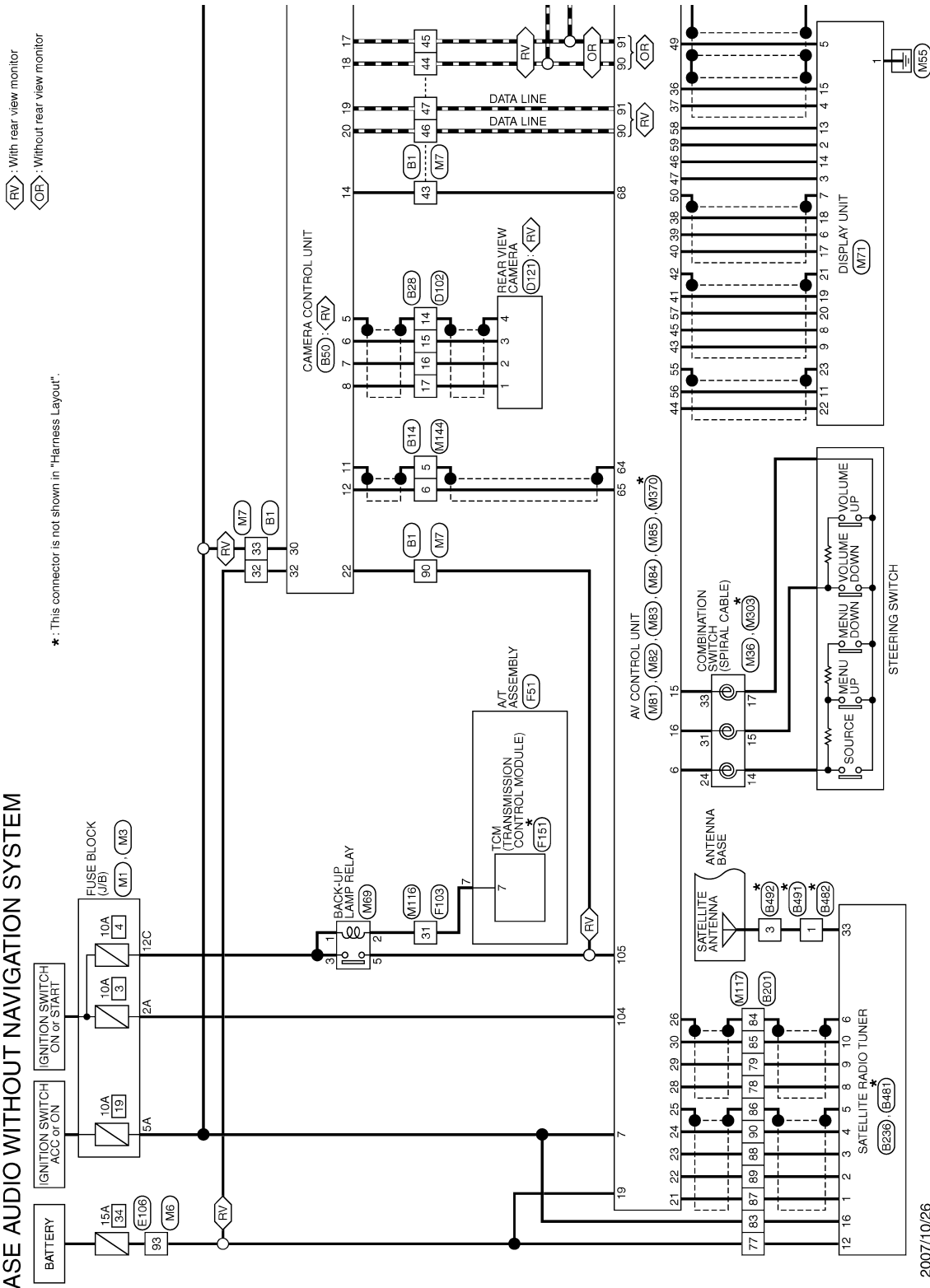
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Wiring Diagram - BASE AUDIO WITHOUT NAVIGATION SYSTEM -

INFOID:0000000037121

Click here to view the eWD.

BASE AUDIO WITHOUT NAVIGATION SYSTEM



2007/10/26

JCNWM0730GI

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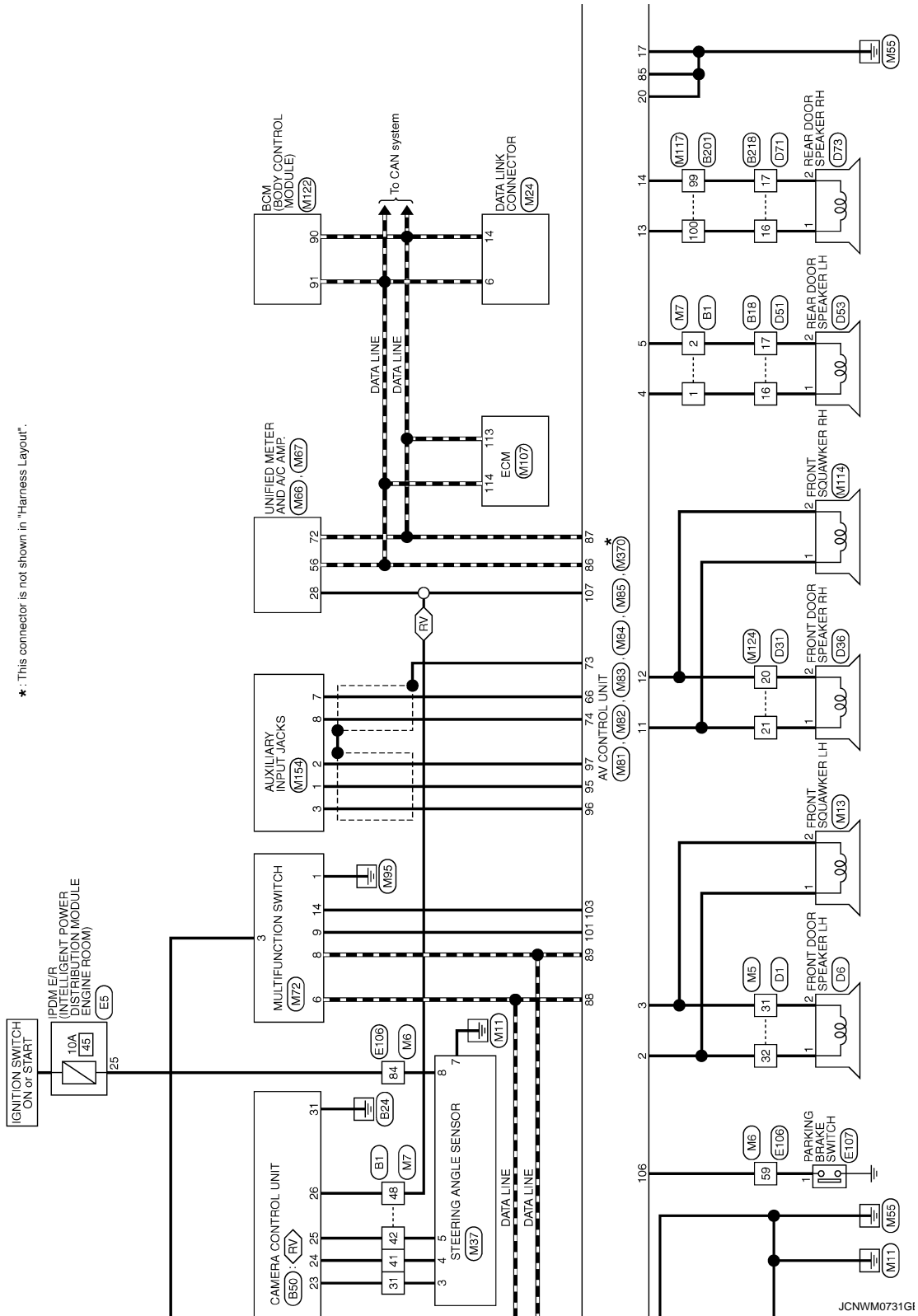
SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

RV : With rear view monitor

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



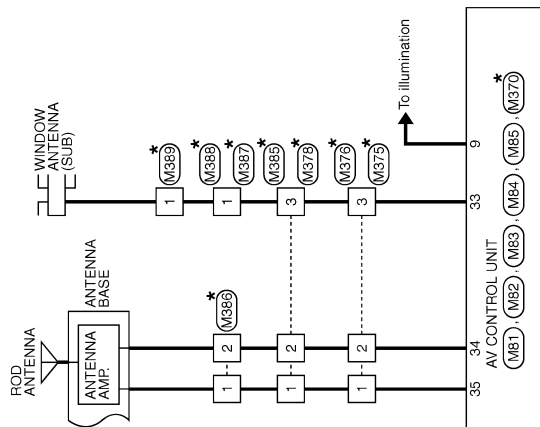
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SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

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



JCNWM0732GI

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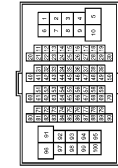
SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

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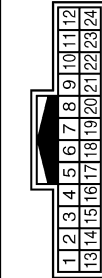
BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH807V-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	Y	-
31	L	-
32	L	-
33	LG	-
41	BR	-
42	R	-
43	W	-
44	LG	- [Without around view monitor]
45	Y	- [Without around view monitor]
46	G	- [With base audio or with NAVI]

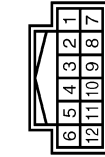
Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	W	- [Without around view monitor]
16	B	- [Without around view monitor]
17	R	- [Without around view monitor]

47	R	- [With base audio or with NAVI]
48	V	-
80	O	-

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH127W-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	-
6	W	-

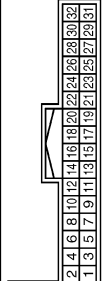
Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NBS



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

22	O	REVERSE
23	L	SENSOR SIGNAL 1
24	BR	SENSOR SIGNAL 2
25	R	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	L	BATTERY

Connector No.	B50
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	W	CAMERA IMAGE SIGNAL
7	B	CAMERA GND
8	R	CAMERA POWER SUPPLY
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
14	W	CONNECTION RECOGNITION
17	V	AV COMM (L) [With base audio or with NAVI]
18	LG	AV COMM (H) [With base audio or with NAVI]
19	R	AV COMM (L) [With base audio or with NAVI]
20	G	AV COMM (H) [With base audio or with NAVI]

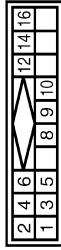
SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

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



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

Connector No.	B492
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU



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

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK16FW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
16	L	-
17	P	- [Without BOSE audio]

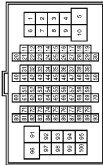
Connector No.	B481
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU



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

99	P	- [Without BOSE audio]
100	L	-

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	THB0FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
77	Y	-
78	L	-
79	G	-
83	V	-
84	SHIELD	-
85	P	-
86	SHIELD	-
87	G	-
88	W	-
89	R	-
90	B	-

Connector No.	B482
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU



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

Connector No.	B481
Connector Name	SATELLITE RADIO TUNER
Connector Type	FAKRA



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

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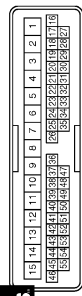

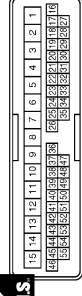










AV

SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No. D1	WIRE TO WIRE	TH40FW-CS15		Terminal No. 31	Color of Wire W	Signal Name [Specification]	
Connector No. D6	FRONT DOOR SPEAKER LH (WITHOUT BOSE SYSTEM)	NS02FW-CS		Terminal No. 1	Color of Wire G	Signal Name [Specification]	
Connector No. D31	WIRE TO WIRE	TH40FW-CS15		Terminal No. 20	Color of Wire R	Signal Name [Specification]	
Connector No. D36	FRONT DOOR SPEAKER RH (WITHOUT BOSE SYSTEM)	NS02FW-CS		Terminal No. 1	Color of Wire BR	Signal Name [Specification]	
Connector No. D51	WIRE TO WIRE	TK10MW-NS8		Terminal No. 32	Color of Wire G	Signal Name [Specification]	
Connector No. D53	REAR DOOR SPEAKER LH	NS02FW-CS		Terminal No. 1	Color of Wire W	Signal Name [Specification]	
Connector No. D71	WIRE TO WIRE	TK10MW-NS8		Terminal No. 21	Color of Wire BR	Signal Name [Specification]	
Connector No. D73	REAR DOOR SPEAKER RH	NS02FW-CS		Terminal No. 2	Color of Wire R	Signal Name [Specification]	
Connector No. D51	WIRE TO WIRE	TK10MW-NS8		Terminal No. 16	Color of Wire LG	Signal Name [Specification]	
Connector No. D53	REAR DOOR SPEAKER LH	NS02FW-CS		Terminal No. 17	Color of Wire Y	Signal Name [Specification]	
Connector No. D71	WIRE TO WIRE	TK10MW-NS8		Terminal No. 18	Color of Wire L	Signal Name [Specification]	
Connector No. D73	REAR DOOR SPEAKER RH	NS02FW-CS		Terminal No. 17	Color of Wire Y	Signal Name [Specification]	
Connector No. D73	REAR DOOR SPEAKER RH	NS02FW-CS		Terminal No. 2	Color of Wire Y	Signal Name [Specification]	

JCNWM0735GI

SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No. M1	FUSE BLOCK (J/B)	NSD6FW-M2		Terminal No. 2A 5A	Color of Wire G V	Signal Name [Specification] - -
Connector No. M3	FUSE BLOCK (J/B)	NS12FW-CS		Terminal No. 12C	Color of Wire O	Signal Name [Specification] -
Connector No. M5	WIRE TO WIRE	TH40MW-CS1.5		Terminal No. 31 32	Color of Wire W L	Signal Name [Specification] - -
Connector No. M6	WIRE TO WIRE	TH80MW-CS16-TM4		Terminal No. 59 84 93	Color of Wire V G Y	Signal Name [Specification] - -
Connector No. M7	WIRE TO WIRE	TH80MW-CS16-TM4		Terminal No. 47 48 90	Color of Wire R V O	Signal Name [Specification] - [With base audio or with NAVI] - -
Connector No. M13	FRONT SOUVANKER LH	TK02FBR		Terminal No. 1 2	Color of Wire L W	Signal Name [Specification] - -
Connector No. M24	DATA LINK CONNECTOR	BD16FW		Terminal No. 6 14	Color of Wire L P	Signal Name [Specification] - -

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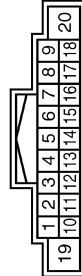
SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

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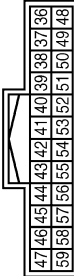
BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M81
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-GSZ



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

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



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

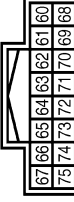
15	B	STRG SW GND
16	L	STRG SW B
17	B	GND
18	Y	BATTERY
19	Y	GND
20	B	GND

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



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
64	SHIELD	SHIELD
65	W	CAMERA IMAGE SIGNAL
66	G	AUX IMAGE SIGNAL
68	W	CONNECTION RECOGNITION
73	SHIELD	SHIELD
74	R	AUX IMAGE GND

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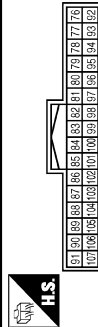
SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

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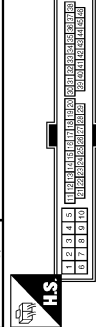
BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M85
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH2FPV-NH

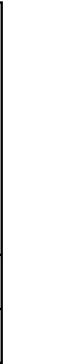


Terminal No.	Color of Wire	Signal Name [Specification]
85	B	GND
86	L	CAN-H
87	P	CAN-L
88	LG	AV COMM (H)
88	V	AV COMM (L)
90	L	AV COMM (4) [Without rear view monitor]
90	G	AV COMM (H) [With rear view monitor]
91	P	AV COMM (L) [Without rear view monitor]
91	R	AV COMM (L) [With rear view monitor]
95	B	AUX SOUND SIGNAL RH (+)
96	R	AUX SOUND SIGNAL LH (+)

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK35MW-NS10

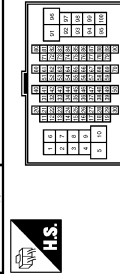


97	W	AUX SOUND SIGNAL GND
101	BR	SW GND
103	SS	DISK SELECT SIGNAL
104	G	IGNITION
105	O	REVERSE
106	V	PARKING BRAKE
107	R	VEHICLE SPEED (8-PULSE)



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

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



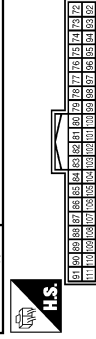
Terminal No.	Color of Wire	Signal Name [Specification]
77	Y	-
78	W	-
79	B	-
83	V	-
84	SHIELD	-
85	R	-
86	SHIELD	-
87	W	-
88	R	-
89	B	-
90	G	-

Connector No.	M114
Connector Name	FRONT SOLAWEKER RH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	- [Without BOSE audio]
2	W	- [Without BOSE audio]

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



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

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SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No. M124	WIRE TO WIRE	TH40MW-CS15		<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>R</td> <td>- [Without around view monitor]</td> </tr> <tr> <td>21</td> <td>BR</td> <td>- [Without around view monitor]</td> </tr> </tbody> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	20	R	- [Without around view monitor]	21	BR	- [Without around view monitor]									
Terminal No.	Color of Wire	Signal Name [Specification]																				
20	R	- [Without around view monitor]																				
21	BR	- [Without around view monitor]																				
Connector No. M144	WIRE TO WIRE	TH12MPV-BH		<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>SHIELD</td> <td>-</td> </tr> <tr> <td>6</td> <td>W</td> <td>-</td> </tr> </tbody> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	5	SHIELD	-	6	W	-									
Terminal No.	Color of Wire	Signal Name [Specification]																				
5	SHIELD	-																				
6	W	-																				
Connector No. M154	AUXILIARY INPUT JACKS	A08FW		<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>B</td> <td>AUX SOUND SIGNAL RH (+)</td> </tr> <tr> <td>2</td> <td>W</td> <td>AUX SOUND SIGNAL GND</td> </tr> <tr> <td>3</td> <td>R</td> <td>AUX SOUND SIGNAL LH (+)</td> </tr> <tr> <td>7</td> <td>G</td> <td>AUX IMAGE SIGNAL</td> </tr> <tr> <td>8</td> <td>R</td> <td>AUX IMAGE GND</td> </tr> </tbody> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	B	AUX SOUND SIGNAL RH (+)	2	W	AUX SOUND SIGNAL GND	3	R	AUX SOUND SIGNAL LH (+)	7	G	AUX IMAGE SIGNAL	8	R	AUX IMAGE GND
Terminal No.	Color of Wire	Signal Name [Specification]																				
1	B	AUX SOUND SIGNAL RH (+)																				
2	W	AUX SOUND SIGNAL GND																				
3	R	AUX SOUND SIGNAL LH (+)																				
7	G	AUX IMAGE SIGNAL																				
8	R	AUX IMAGE GND																				
Connector No. M303	COMBINATION SWITCH (SPIRAL CABLE)	TK08FGY		<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>W</td> <td>-</td> </tr> <tr> <td>15</td> <td>L</td> <td>-</td> </tr> <tr> <td>17</td> <td>BR</td> <td>-</td> </tr> </tbody> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	14	W	-	15	L	-	17	BR	-						
Terminal No.	Color of Wire	Signal Name [Specification]																				
14	W	-																				
15	L	-																				
17	BR	-																				
Connector No. M370	AV CONTROL UNIT (WITHOUT NAVI)	GT13SH-2/1S-HU		<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr> <td>33</td> <td>-</td> <td>FM SUB</td> </tr> <tr> <td>34</td> <td>-</td> <td>AM-FM MAIN</td> </tr> <tr> <td>35</td> <td>-</td> <td>ANTENNA AMP. ON SIGNAL</td> </tr> </tbody> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	33	-	FM SUB	34	-	AM-FM MAIN	35	-	ANTENNA AMP. ON SIGNAL						
Terminal No.	Color of Wire	Signal Name [Specification]																				
33	-	FM SUB																				
34	-	AM-FM MAIN																				
35	-	ANTENNA AMP. ON SIGNAL																				
Connector No. M375	WIRE TO WIRE	GT13SC-2/1S-HU		<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-</td> <td>-</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> </tr> <tr> <td>3</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	-	-	2	-	-	3	-	-						
Terminal No.	Color of Wire	Signal Name [Specification]																				
1	-	-																				
2	-	-																				
3	-	-																				
Connector No. M376	WIRE TO WIRE	GT13SCN-2/1PP-HU		<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-</td> <td>-</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> </tr> <tr> <td>3</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	-	-	2	-	-	3	-	-						
Terminal No.	Color of Wire	Signal Name [Specification]																				
1	-	-																				
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3	-	-																				
Connector No. M378	WIRE TO WIRE	GT13SC-2/1S-HU		<table border="1"> <thead> <tr> <th>Terminal No.</th> <th>Color of Wire</th> <th>Signal Name [Specification]</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-</td> <td>-</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> </tr> <tr> <td>3</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	-	-	2	-	-	3	-	-						
Terminal No.	Color of Wire	Signal Name [Specification]																				
1	-	-																				
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3	-	-																				

JCNWM0741GI

SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SCH-2 / JPP-HU



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

Connector No.	M386
Connector Name	ANTENNA BASE
Connector Type	GT13SSN-1 / JPP-HU



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

Connector No.	M387
Connector Name	WIRE TO WIRE
Connector Type	JASO JACK



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

Connector No.	M388
Connector Name	WIRE TO WIRE
Connector Type	JASO PLUG



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

Connector No.	M389
Connector Name	WINDOW ANTENNA (SUB)
Connector Type	P01FE-A



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

NOTE:

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

JCNWM0742GI

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MULTI AV SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

SYMPTOM DIAGNOSIS

MULTI AV SYSTEM SYMPTOMS

Symptom Table

INFOID:000000003508434

OPERATION

Symptoms	Check items	Possible malfunction location / Action to take
Multifunction switch and preset switch operation does not work.	<ul style="list-style-type: none"> All switches cannot be operated. "MULTI AV" is displayed with CONSULT-III. 	<ul style="list-style-type: none"> Multifunction switch power supply and ground circuit. AV communication circuits between AV control unit and multifunction switch. Perform CONSULT-III self-diagnosis. Refer to AV-37, "CONSULT-III Function (MULTI AV)" .
	<ul style="list-style-type: none"> All switches cannot be operated. "MULTI AV" is not displayed on system selection screen the CONSULT-III is initialized. 	AV control unit power supply and ground circuit malfunction. Refer to AV-51, "AV CONTROL UNIT : Diagnosis Procedure" .
	Only specified switch cannot be operated.	Multifunction switch or preset switch malfunction. Perform multifunction switch and preset switch self-diagnosis function. Refer to AV-52, "MULTIFUNCTION SWITCH : Diagnosis Procedure" .

RELATED TO RGB IMAGE

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take
RGB image is not shown.	There is malfunction in the CONSULT-III self-diagnosis result.	Perform CONSULT-III self-diagnosis. Refer to AV-37, "CONSULT-III Function (MULTI AV)" .
	There is no malfunction in CONSULT-III self-diagnosis results.	<ul style="list-style-type: none"> Display unit power supply and ground circuit. Refer to AV-51, "DISPLAY UNIT : Diagnosis Procedure". Vertical synchronizing (VP) signal circuit. Refer to AV-61, "Diagnosis Procedure".
Color of RGB image is not proper.	Light blue (Cyan) tint.	RGB signal (R: red) circuit. Refer to AV-55, "Diagnosis Procedure" .
	Purple (Magenta) tint.	RGB signal (G: green) circuit. Refer to AV-56, "Diagnosis Procedure" .
	Screen looks yellowish.	RGB signal (B: blue) circuit. Refer to AV-57, "Diagnosis Procedure" .
RGB screen is rolling.	—	RGB synchronizing signal circuit. Refer to AV-58, "Diagnosis Procedure" .
Fuel economy display is malfunctioning.	There is malfunction in the CONSULT-III self-diagnosis result.	Perform CONSULT-III self-diagnosis. Refer to AV-37, "CONSULT-III Function (MULTI AV)" .
	There is no malfunction in CONSULT-III self-diagnosis results.	Ignition signal circuit malfunction. Refer to AV-51, "AV CONTROL UNIT : Diagnosis Procedure" .

RELATED TO AUDIO

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take
The CD cannot be removed.	—	Disk eject signal circuit. Refer to AV-64, "Diagnosis Procedure" .
Audio sound is not heard.	No sound from all speakers.	AV control unit malfunction. Refer to AV-156, "Exploded View" .
	Sound is not heard only from the specific places (RH front, RH rear, LH front and LH rear).	Sound signal circuit of malfunctioning system.

MULTI AV SYSTEM SYMPTOMS

[BASE AUDIO WITHOUT NAVIGATION]

< SYMPTOM DIAGNOSIS >

Symptoms	Check items	Possible malfunction location / Action to take
Satellite radio is not received.	"ANTENNA" is not displayed even when the channel is turned to 0 in Satellite radio mode.	Perform the following inspection procedure. 1. Check satellite radio antenna mounting nut for looseness. NOTE: Tightening torque: 6.5 N·m (0.66 kg·m, 58 in·lb.) 2. Visually check for satellite radio antenna feeder. 3. Replace the satellite radio antenna. Refer to AV-162, "Exploded View" . 4. Replace the satellite radio tuner. Refer to AV-161, "Exploded View" .
	"ANTENNA" is displayed when the channel is turned to 0 in Satellite radio mode.	Perform the following inspection procedure. 1. Check the connection between Satellite radio tuner and antenna feeder. 2. Check the connection between Satellite radio antenna and antenna feeder. 3. Check Antenna feeder for open circuit. 4. Replace the satellite radio antenna. Refer to AV-162, "Exploded View" . 5. Replace the satellite radio tuner. Refer to AV-161, "Exploded View" .
The sound of Satellite radio is not heard.	Other audio sounds are normal.	Satellite radio sound signal circuit malfunction between satellite radio tuner and AV control unit.
It does not change to Satellite radio mode.	There is malfunction in the CONSULT-III self-diagnosis result.	Perform CONSULT-III self-diagnosis. Refer to AV-37, "CONSULT-III Function (MULTI AV)" .
AM/FM radio is not received.	Other audio sounds are normal.	<ul style="list-style-type: none"> Antenna amp. ON signal circuit. Antenna feeder.

RELATED TO STEERING SWITCH

Trouble diagnosis chart by symptom

Symptoms	Inspection location / Probable malfunction location
None of the steering switch operations work.	Steering switch signal GND circuit. Refer to AV-78, "Diagnosis Procedure" .
Only specified switch (1) cannot be operated.	Steering switch.
"SOURCE", "MENU UP", "MENU DOWN" switches of steering switch are not operated.	Steering switch signal A circuit. Refer to AV-74, "Diagnosis Procedure" .
"VOL UP", "VOL DOWN" switches of steering switch are not operated.	Steering switch signal B circuit. Refer to AV-76, "Diagnosis Procedure" .

RELATED TO AUXILIARY INPUT

NOTE:

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

Trouble diagnosis chart by symptom

Symptoms	Check items	Probable malfunction location
No voice sound is heard when AUX mode is selected.	Voice sound is heard when other modes are selected.	AUX sound signal circuits malfunction between auxiliary input jacks and AV control unit.

MULTI AV SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Symptoms	Check items	Probable malfunction location
Image is not displayed when AUX mode is selected.	—	<ul style="list-style-type: none"> • AUX image signal circuit malfunction between auxiliary input jacks and AV control unit. Refer to AV-62, "Diagnosis Procedure". • Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and display unit. Refer to AV-60, "Diagnosis Procedure". • Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit. Refer to AV-61, "Diagnosis Procedure". • RGB area (YS) signal circuit malfunction between AV control unit and display unit. Refer to AV-59, "Diagnosis Procedure".
	Camera image is normal (with rear view monitor)	AUX image signal circuit malfunction between auxiliary input jacks and AV control unit. Refer to AV-62, "Diagnosis Procedure" .
	Camera image is not displayed. (with rear view monitor)	<ul style="list-style-type: none"> • Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and display unit. Refer to AV-60, "Diagnosis Procedure". • Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit. Refer to AV-61, "Diagnosis Procedure". • RGB area (YS) signal circuit malfunction between AV control unit and display unit. Refer to AV-59, "Diagnosis Procedure".
It does not change from AUX mode to other modes.	—	<ul style="list-style-type: none"> • Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit. Refer to AV-61, "Diagnosis Procedure". • Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and display unit. Refer to AV-60, "Diagnosis Procedure".

RELATED TO REAR VIEW MONITOR

Trouble diagnosis chart by symptom

Symptoms	Check items	Probable malfunction location
Camera image is not displayed (displayed in black and nothing can be displayed)	AUX image is not displayed.	<ul style="list-style-type: none"> • Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and display unit. Refer to AV-60, "Diagnosis Procedure". • Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit. Refer to AV-61, "Diagnosis Procedure".
Camera image is not shown. (Guiding line is displayed.)	—	<ul style="list-style-type: none"> • Camera image signal circuit between camera control unit and rear view camera. Refer to AV-65, "Diagnosis Procedure". • Rear view camera power supply circuit. Refer to AV-66, "Diagnosis Procedure".
Camera image is not displayed. (Only warning message under area is displayed.)	There is malfunction in the CONSULT-III self-diagnosis result.	Perform detected DTC self-diagnosis. Refer to AV-37, "CONSULT-III Function (MULTI AV)" .
	AUX image is normal.	Camera image signal circuit malfunction between camera control unit and AV control unit. Refer to AV-67, "Diagnosis Procedure" .
	AUX image is not displayed.	RGB area (YS) signal circuit malfunction between AV control unit and display unit. Refer to AV-59, "Diagnosis Procedure" .
	Select "Camera Cont." of "Confirmation/Adjustment" mode, Reverse Sensor is not turned ON at "Connection Confirmation".	Reverse signal circuit (camera control unit).

MULTI AV SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Symptoms	Check items	Probable malfunction location
Camera image is rolling.	AUX image is also rolling.	Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit. Refer to AV-61, "Diagnosis Procedure" .
Camera image does not switch.	Malfunction of self-diagnosis result is indicated.	Camera-connection recognition signal circuit Refer to AV-37, "CONSULT-III Function (MULTI AV)" .
	Malfunction of self-diagnosis result is not indicated.	Reverse signal circuit (AV control unit).
The predicted course line display is malfunctioning.	—	Sensor signal circuit malfunction. Refer to AV-72, "Diagnosis Procedure" .

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AV

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

NORMAL OPERATING CONDITION

Description

INFOID:000000003508435

BASIC OPERATIONS

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

RELATED TO AUDIO

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

NOTE:

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

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

NORMAL OPERATING CONDITION

[BASE AUDIO WITHOUT NAVIGATION]

< SYMPTOM DIAGNOSIS >

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

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

NOTE:

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

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AV

PRECAUTION

PRECAUTIONS

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

INFOID:000000003703419

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 AIRBAG" 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 AIRBAG".
- 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.

Precaution for Trouble Diagnosis

INFOID:000000003508437

AV COMMUNICATION SYSTEM

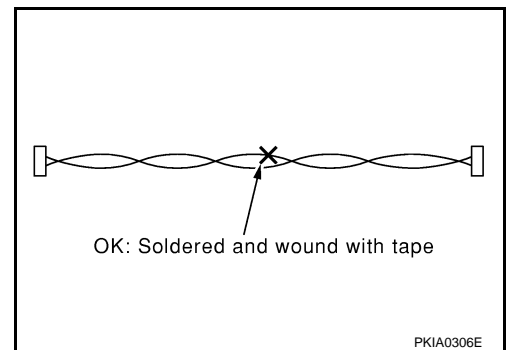
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

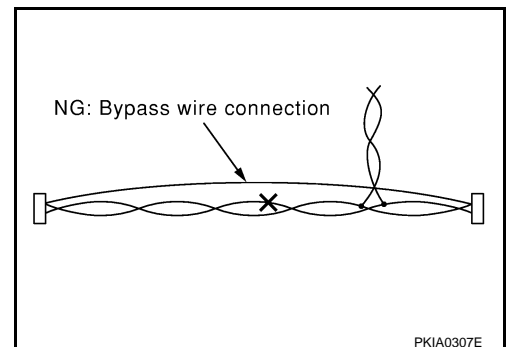
INFOID:000000003508438

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 >

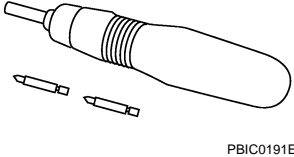
[BASE AUDIO WITHOUT NAVIGATION]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000003757507

Tool name	Description
<p data-bbox="180 520 289 541">Power tool</p>  <p data-bbox="852 632 927 646">PBIC0191E</p>	<p data-bbox="1008 520 1192 541">Loosening screws</p>

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AV

ON-VEHICLE REPAIR

AV CONTROL UNIT

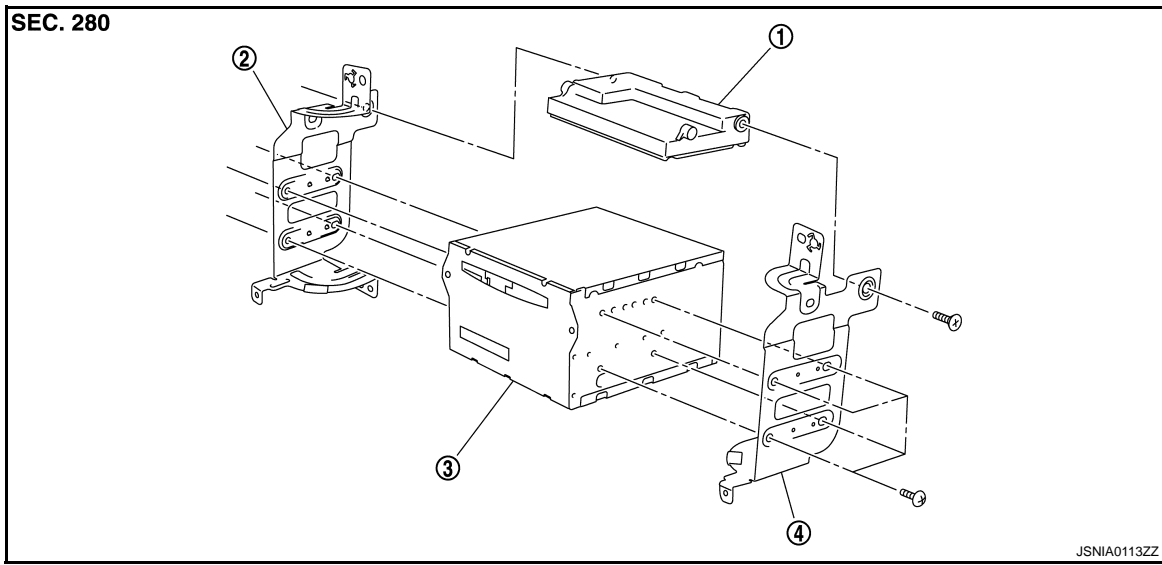
Exploded View

INFOID:000000003573680

REMOVAL

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

DISASSEMBLY



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

Removal and Installation

INFOID:000000003573681

REMOVAL

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

INSTALLATION

Installation is the reverse order of removal.

CAUTION:

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

DISPLAY UNIT

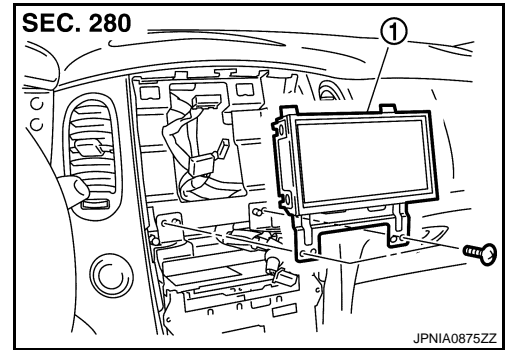
< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

DISPLAY UNIT

Exploded View

INFOID:000000003573682



1. Display unit

Removal and Installation

INFOID:000000003573683

REMOVAL

1. Remove cluster lid D. Refer to [IP-11. "Exploded View"](#).
2. Remove display unit mounting screws.
3. Remove display unit.

INSTALLATION

Installation is the reverse order of removal.

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AV

FRONT DOOR SPEAKER

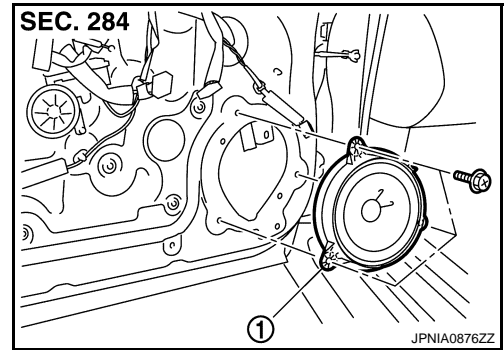
< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

FRONT DOOR SPEAKER

Exploded View

INFOID:000000003573691



1. Front door speaker

Removal and Installation

INFOID:000000003573692

REMOVAL

1. Remove front door finisher. Refer to [INT-11, "DRIVER SIDE : Exploded View"](#) (driver side) or [INT-14, "PASSENGER SIDE : Exploded View"](#) (passenger side).
2. Remove front door speaker mounting bolts, disconnect the front door speaker connector.
3. Remove front door speaker.

INSTALLATION

Installation is the reverse order of removal.

REAR DOOR SPEAKER

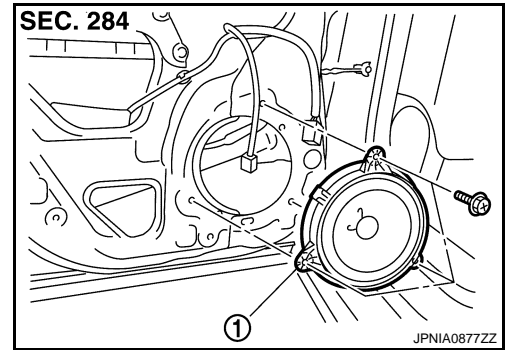
< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

REAR DOOR SPEAKER

Exploded View

INFOID:000000003573693



1. Rear door speaker

Removal and Installation

INFOID:000000003573694

REMOVAL

1. Remove rear door finisher. Refer to [INT-17, "Exploded View"](#).
2. Remove rear door speaker mounting bolts, disconnect the rear door speaker connector.
3. Remove rear door speaker.

INSTALLATION

Installation is the reverse order of removal.

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AV

FRONT SQUAWKER

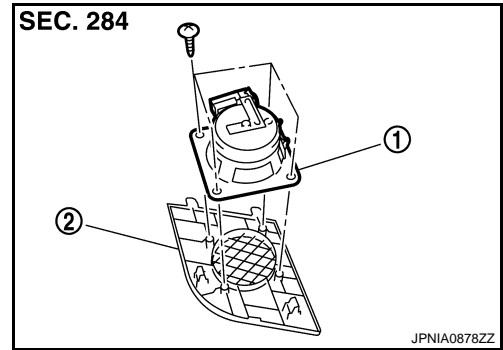
[BASE AUDIO WITHOUT NAVIGATION]

< ON-VEHICLE REPAIR >

FRONT SQUAWKER

Exploded View

INFOID:000000003573695



1. Front squawker
2. Speaker grille

Removal and Installation

INFOID:000000003573696

REMOVAL

1. Lift up the speaker grille with squawker. Refer to [IP-11, "Exploded View"](#).
2. Disconnect the front squawker connector.
3. Remove front squawker mounting screws.
4. Remove front squawker.

INSTALLATION

Installation is the reverse order of removal.

SATELLITE RADIO TUNER

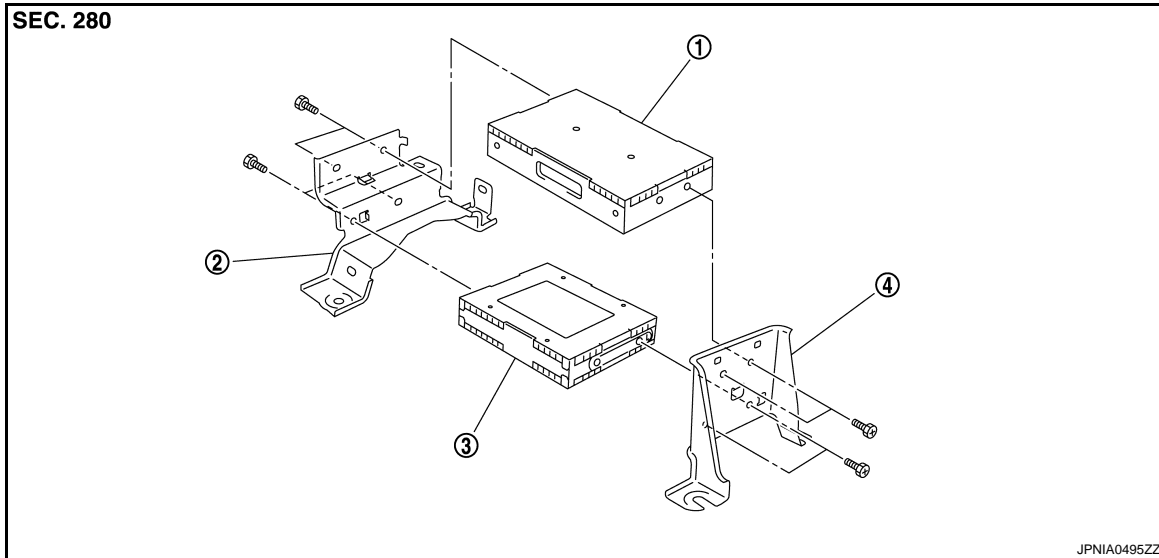
< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

SATELLITE RADIO TUNER

Exploded View

INFOID:000000003573737



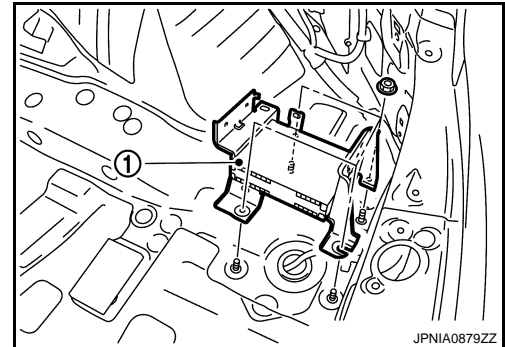
1. TEL adapter unit
2. Bracket (front)
3. Satellite radio tuner
4. Bracket (rear)

Removal and Installation

INFOID:000000003508453

REMOVAL

1. Remove luggage floor spacer (RH). Refer to [INT-34, "Exploded View"](#).
2. Remove nuts, and then satellite radio tuner (1).



INSTALLATION

Install in the reverse order of removal.

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ANTENNA BASE

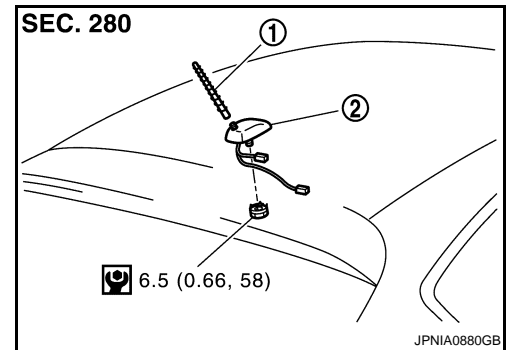
< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

ANTENNA BASE

Exploded View

INFOID:000000003573738



1. Antenna rod
2. Antenna base

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

Removal and Installation

INFOID:000000003573739

REMOVAL

1. Remove headlining (rear). Keep a service area. Refer to [INT-26. "NORMAL ROOF : Exploded View"](#) (normal roof) or [INT-30. "SUNROOF : Exploded View"](#) (sunroof).
2. Remove antenna base mounting nut.
3. Remove antenna base.

INSTALLATION

Installation is the reverse order of removal.

Antenna base mounting nut : 6.5 N·m (0.66 kg·m, 58 in·lb)

CAUTION:

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

MULTIFUNCTION SWITCH

< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

MULTIFUNCTION SWITCH

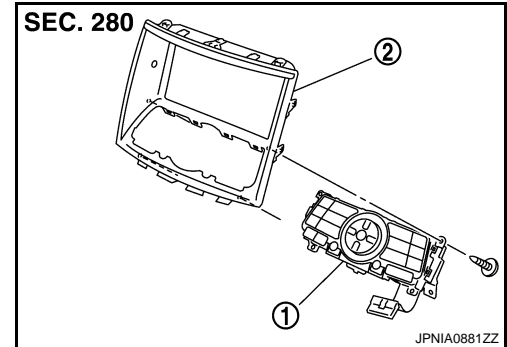
Exploded View

INFOID:000000003573718

REMOVAL

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

DISASSEMBLY



1. Multifunction switch
2. Cluster lid D

Removal and Installation

INFOID:000000003573719

REMOVAL

1. Remove cluster lid D. Refer to [IP-11, "Exploded View"](#).
2. Remove multifunction switch mounting screws.
3. Remove multifunction switch.

INSTALLATION

Installation is the reverse order of removal.

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PRESET SWITCH

< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

PRESET SWITCH

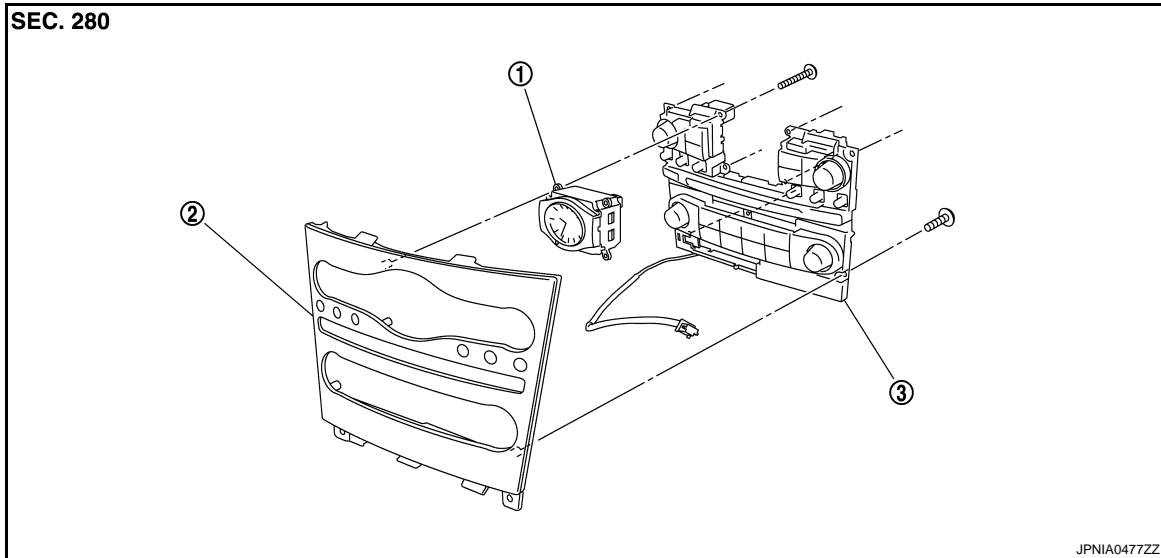
Exploded View

INFOID:000000003573711

REMOVAL

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

DISASSEMBLY



1. Clock

2. Cluster lid C

3. Preset switch

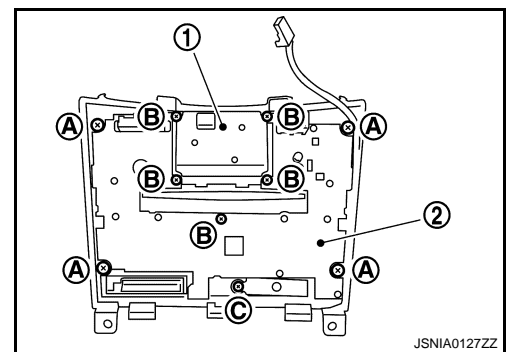
Removal and Installation

INFOID:000000003573712

REMOVAL

1. Remove cluster lid C. Refer to [IP-11, "Exploded View"](#).
2. Remove preset switch mounting screws.
3. Remove preset switch.

1. Clock
2. Preset switch
- A. Screw
- B. Screw
- C. Screw



INSTALLATION

Installation is the reverse order of removal.

NOTE:

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

AUXILIARY INPUT JACKS

[BASE AUDIO WITHOUT NAVIGATION]

< ON-VEHICLE REPAIR >

AUXILIARY INPUT JACKS

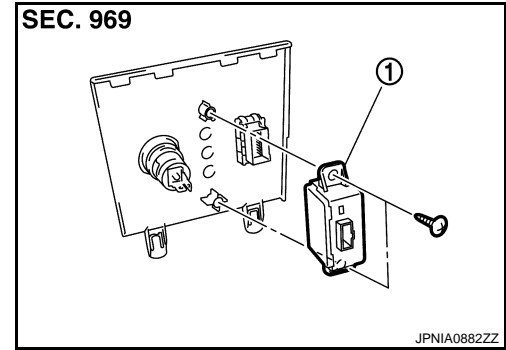
Exploded View

INFOID:000000003573705

REMOVAL

Refer to [IP-22, "Exploded View"](#).

DISASSEMBLY



1. Auxiliary input jacks

Removal and Installation

INFOID:000000003573706

REMOVAL

1. Remove console finisher. Refer to [IP-22, "Exploded View"](#).
2. Remove auxiliary mounting screws.
3. Remove auxiliary input jacks.

INSTALLATION

Installation is the reverse order of removal.

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AV

MICROPHONE

< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

MICROPHONE

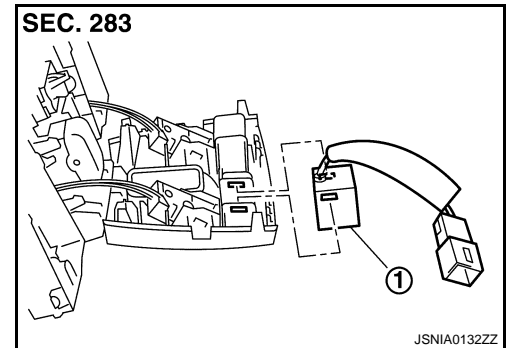
Exploded View

INFOID:000000003573725

REMOVAL

Refer to [INT-26. "NORMAL ROOF : Exploded View"](#) (normal roof) or [INT-30. "SUNROOF : Exploded View"](#) (sunroof).

DISASSEMBLY



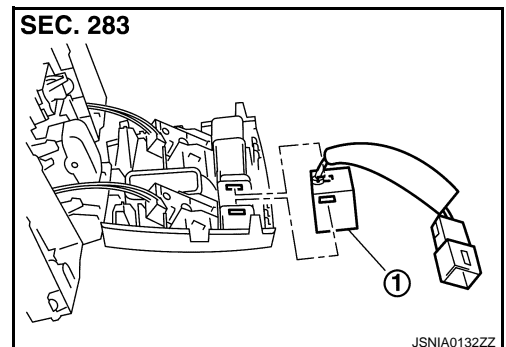
1. Microphone

Removal and Installation

INFOID:000000003573726

REMOVAL

1. Remove map lamp assembly. Refer to [INT-26. "NORMAL ROOF : Exploded View"](#) (normal roof) or [INT-30. "SUNROOF : Exploded View"](#) (sunroof).
2. Remove microphone (1), stretching pawls of map lamp assembly.



INSTALLATION

Installation is the reverse order of removal.

CAMERA CONTROL UNIT

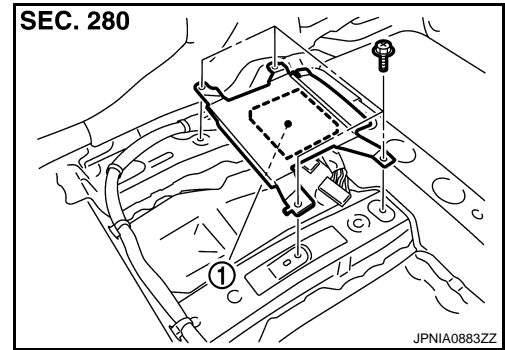
< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

CAMERA CONTROL UNIT

Exploded View

INFOID:000000003573730



1. Camera control unit

Removal and Installation

INFOID:000000003573731

REMOVAL

1. Remove front seat (LH side). Refer to [SE-87. "Exploded View"](#).
2. Remove floor carpet. Keep a service area.
3. Remove camera control unit.

INSTALLATION

1. Installation is the reverse order of removal.
2. Perform predicted course line center position adjustment. Refer to [AV-15. "PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement"](#).

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REAR VIEW CAMERA

< ON-VEHICLE REPAIR >

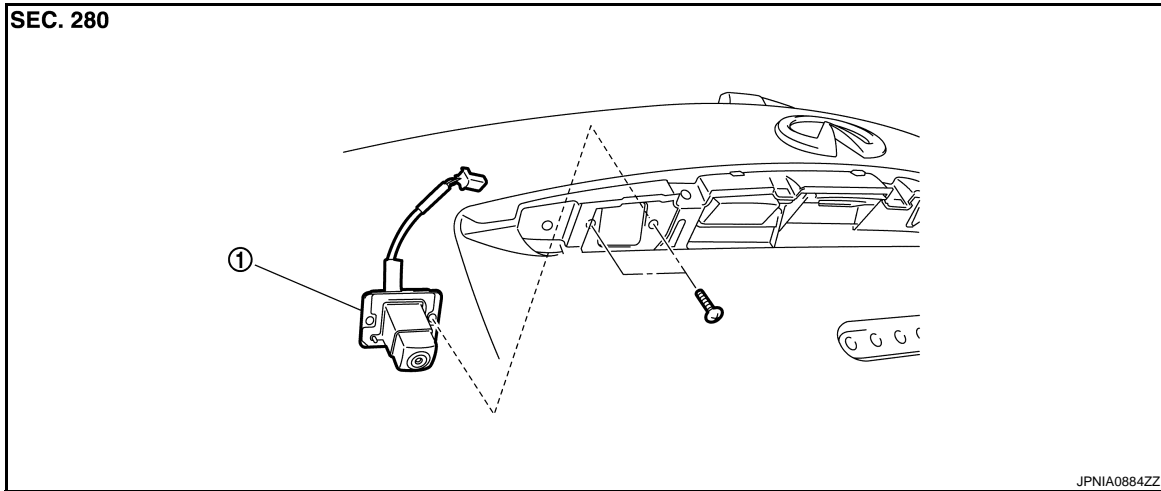
[BASE AUDIO WITHOUT NAVIGATION]

REAR VIEW CAMERA

Exploded View

INFOID:000000003573733

DISASSEMBLY



1. Rear view camera

Removal and Installation

INFOID:000000003573734

REMOVAL

1. Remove back door finisher inner. Refer to [INT-38, "Exploded View"](#).
2. Remove back door outside finisher upper. Refer to [EXT-48, "Exploded View"](#).
3. Remove back door outside finisher lower. Refer to [EXT-48, "Exploded View"](#).
4. Remove rear view camera mounting screws and rear view camera harness connector.
5. Remove rear view camera.

INSTALLATION

1. Installation is the reverse order of removal.
2. Adjust the guide line position if the guide line position is shifted after installing the rear view camera. Refer to [AV-169, "Adjustment"](#).

REAR VIEW CAMERA

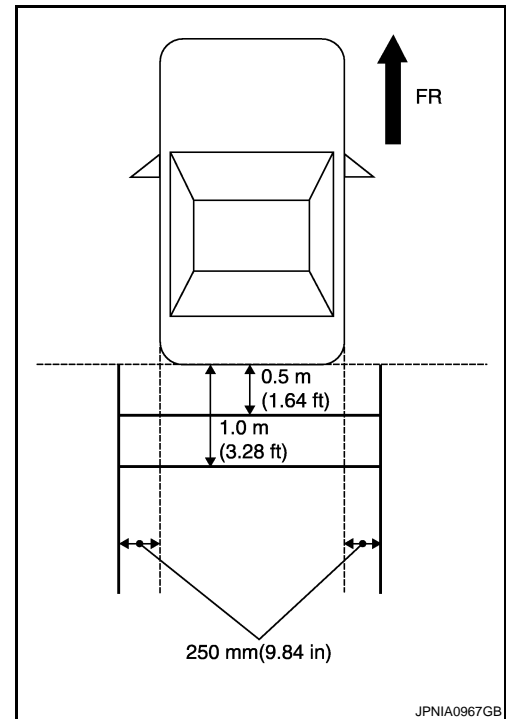
[BASE AUDIO WITHOUT NAVIGATION]

< ON-VEHICLE REPAIR >

INFOID:000000003579617

Adjustment

1. Draw lines on rearward area of the vehicle passing through the following points: 250 mm (9.84 in) from both sides of the vehicle, and 0.5 m (1.64 ft), 1.0 m (3.28 ft) from the rear end of the bumper.
2. Set into "Adjust offset of rear view camera" mode of Confirmation/Adjustment mode.



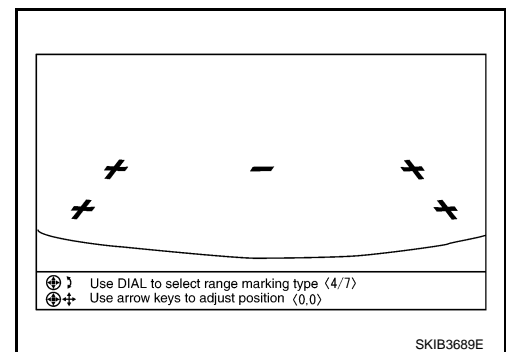
3. Rotate the center dial, and then select the guiding line pattern so that its angle is aligned with the correction line of the rear of the vehicle.

Selected pattern : 7

4. Make fine adjustment to the correction line of the rear of the vehicle with up/down/left/right switches so that its position is aligned with the guiding line. Press ""

Up/Down adjustment range : -20 - 20

Left/Right adjustment range : -20 - 20



CAUTION:

Never operate other function such as pressing BACK while writing index data.

If Confirmation/Adjustment mode does not function in the above procedure, perform one of the following service to adjust the index again.

- Remove battery for five min. Then reconnect battery.
- Remove camera control unit connector for five min. Then reconnect camera control unit connector.

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STEERING ANGLE SENSOR

[BASE AUDIO WITHOUT NAVIGATION]

< ON-VEHICLE REPAIR >

STEERING ANGLE SENSOR

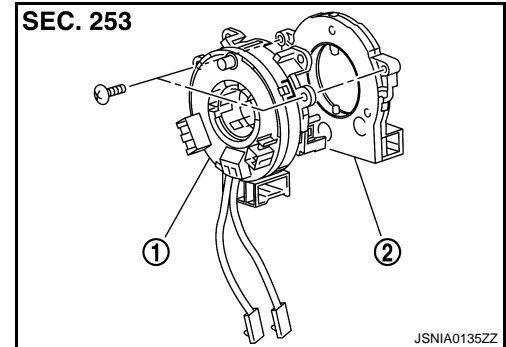
Exploded View

INFOID:000000003573727

REMOVAL

Refer to [SR-6. "Exploded View"](#).

DISASSEMBLY



1. Spiral cable
2. Steering angle sensor

Removal and Installation

INFOID:000000003573728

REMOVAL

1. Remove spiral cable.
2. Remove steering angle sensor mounting screws.
3. Remove steering angle sensor.

INSTALLATION

Installation is the reverse order of removal.

ANTENNA FEEDER

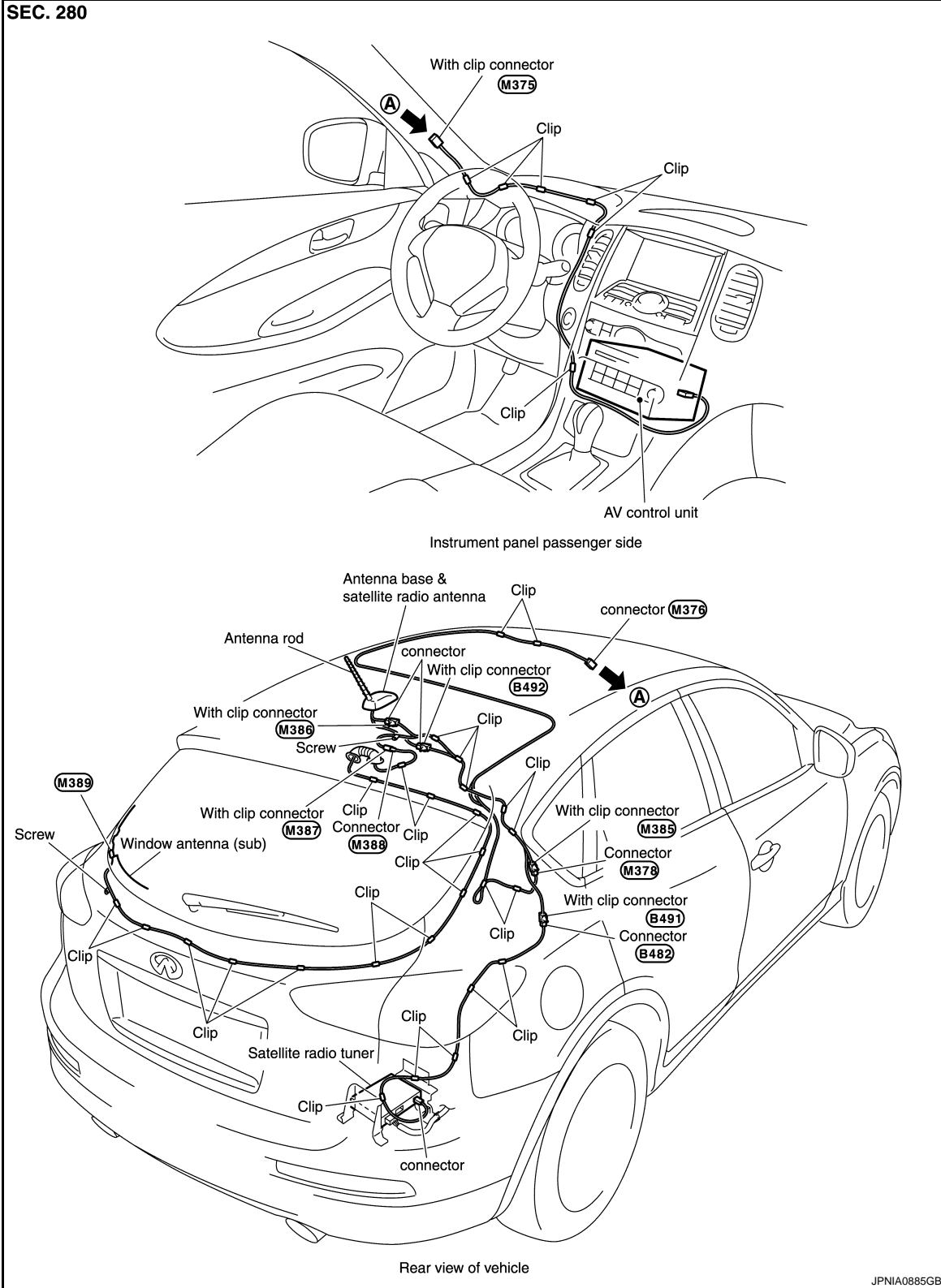
< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

ANTENNA FEEDER

Harness Layout

INFOID:000000003508464



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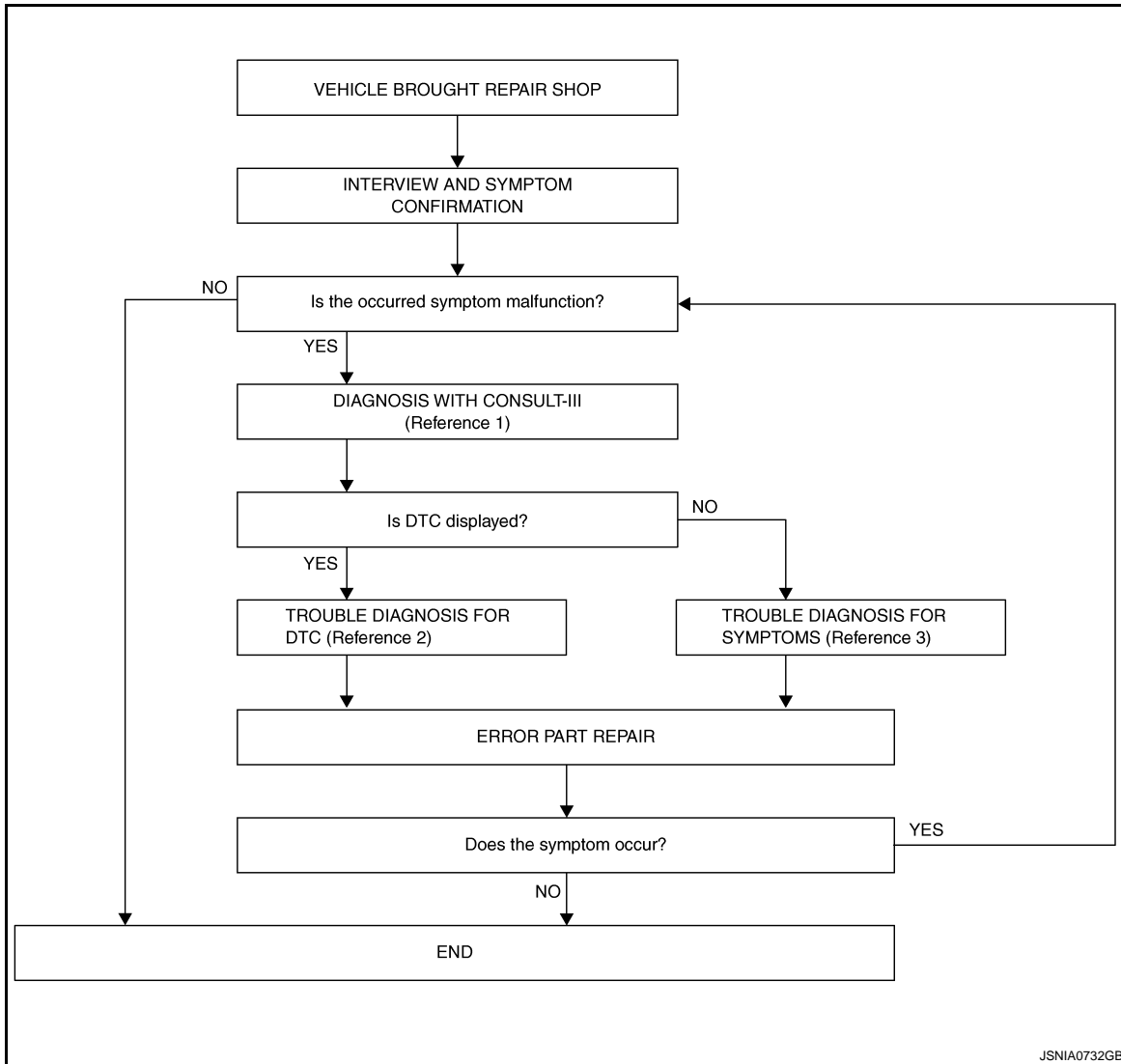
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000003508649

OVERALL SEQUENCE



JSNIA0732GB

- Reference 1... Refer to [AV-201, "CONSULT-III Function \(MULTI AV\)"](#).
- Reference 2... Refer to [AV-278, "DTC Index"](#).
- Reference 3... Refer to [AV-403, "Symptom Table"](#).

DETAILED FLOW

1. INTERVIEW AND SYMPTOM CONFIRMATION

Check the malfunction symptoms by performing the following items.

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

Is the occurred symptom malfunction?

YES >> GO TO 2.

NO >> INSPECTION END

2. DIAGNOSIS WITH CONSULT-III

DIAGNOSIS AND REPAIR WORKFLOW

[BOSE AUDIO WITHOUT NAVIGATION]

< BASIC INSPECTION >

1. Connect CONSULT-III and perform a self-diagnosis for "MULTI AV". Refer to [AV-201, "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-278, "DTC Index"](#).

>> GO TO 5.

4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to [AV-403, "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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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[BOSE AUDIO WITHOUT NAVIGATION]

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:000000003528840

WITH REAR VIEW MONITOR

Always correct the center position of the predicted course line after disconnecting the battery negative terminal.

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:000000003528841

1. CORRECTION OF CENTER POSITION OF PREDICTED COURSE LINE

Refer to the following for details.

>> Refer to [AV-174. "PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement"](#).

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000003528842

When camera control unit is replaced, the center position of predicted course line shall be corrected.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:000000003528843

1. CORRECTION OF CENTER POSITION OF PREDICTED COURSE LINE

Refer to the following for details.

>> Refer to [AV-174. "PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement"](#).

PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT

PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Description

INFOID:000000003528844

Adjust the center position of the predicted course line of the rear view monitor if it is shifted.

PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement

INFOID:000000003528845

1. STEERING OPERATION

Steer the steering wheel to the leftmost and rightmost ends.

>> GO TO 2

2. DRIVING

Drive the vehicle straight ahead 100 m (328.1 ft) or more at a speed of 30 km/h (18.6 MPH) or more.

>> END

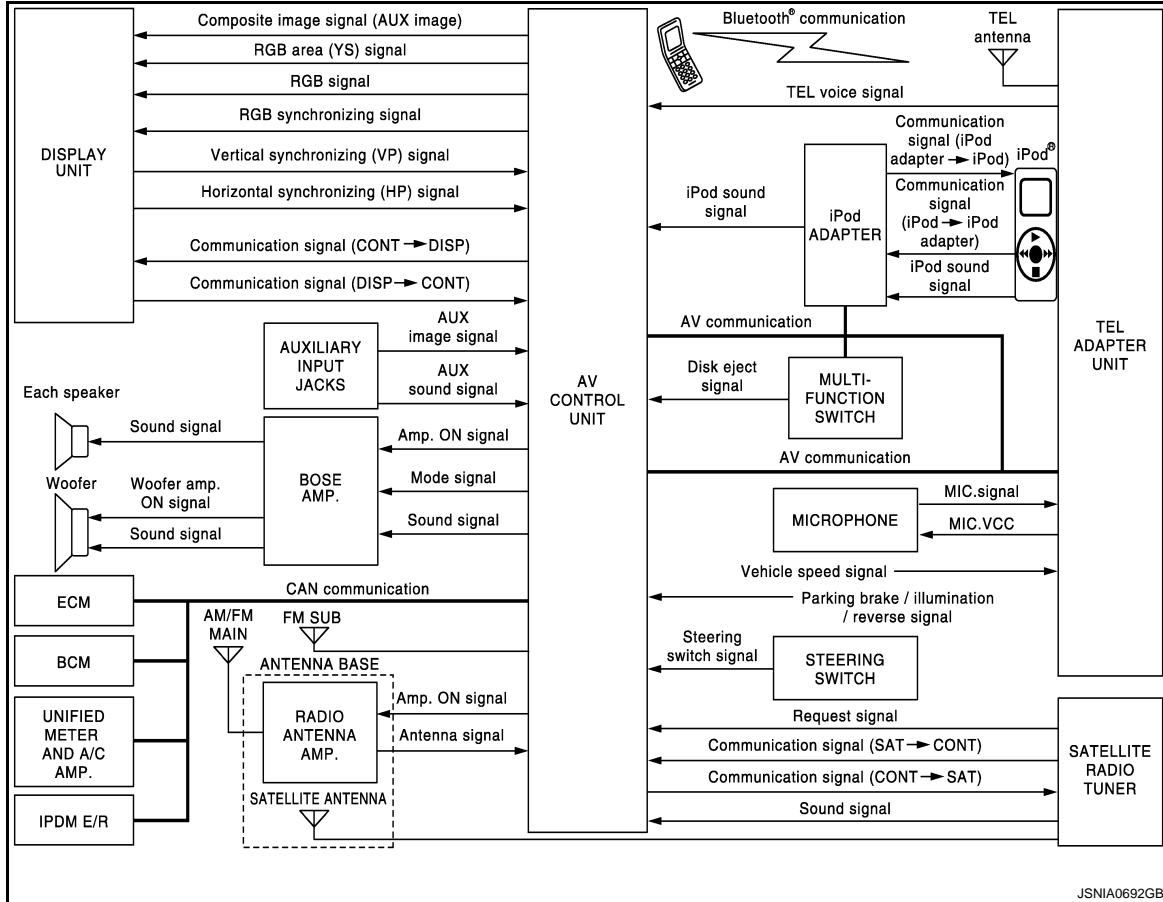
FUNCTION DIAGNOSIS

MULTI AV SYSTEM

System Diagram

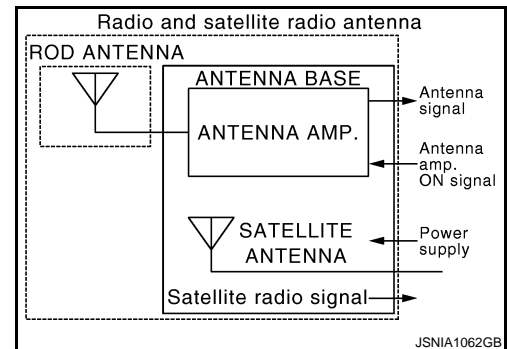
INFOID:000000003508650

WITHOUT REAR VIEW MONITOR



NOTE:

- The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.
- A radio antenna base integrated with radio antenna and satellite radio antenna is adopted.

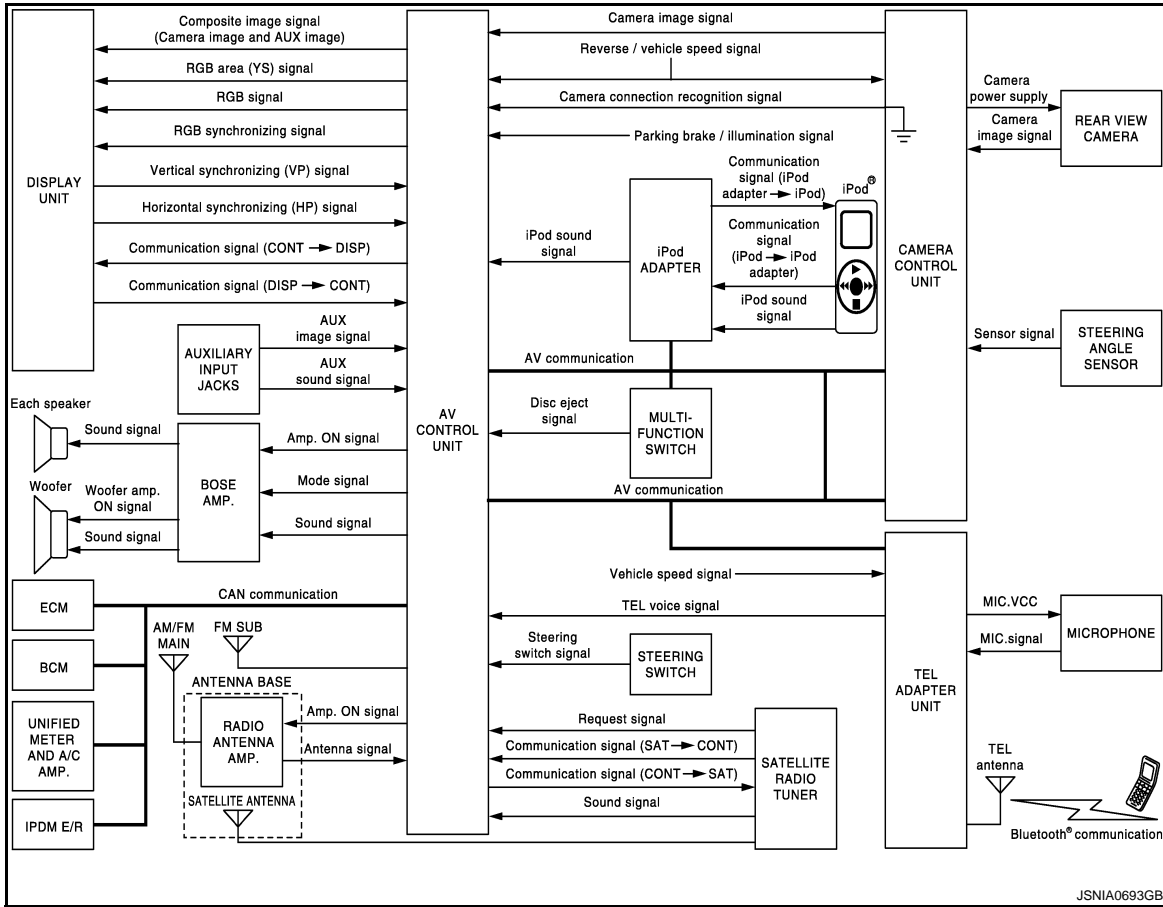


MULTI AV SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

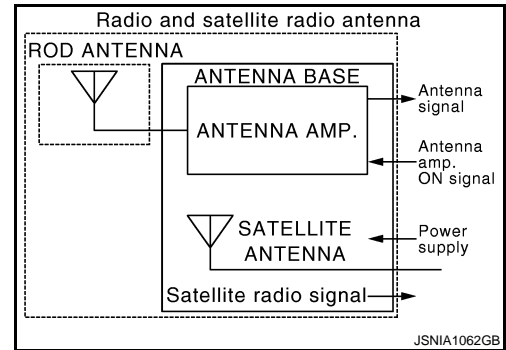
< FUNCTION DIAGNOSIS >

WITH REAR VIEW MONITOR



NOTE:

- The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.
- A radio antenna base integrated with radio antenna and satellite radio antenna is adopted.



System Description

INFOID:000000003508651

Multi AV system means that the following systems are integrated.

System name	System explanation
AUDIO SYSTEM	AV-181, "System Diagram"
VEHICLE INFORMATION SYSTEM	<ul style="list-style-type: none"> • Indicates the status of audio, climate control system, fuel economy and maintenance. • AV control unit displays the fuel consumption status while receiving data signal through CAN communication from ECM, unified meter and A/C amp. • AV control unit is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.

MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

System name	System explanation
HANDS-FREE PHONE SYSTEM	AV-185, "System Description"
AUXILIARY INPUT SYSTEM	Refer to "AUXILIARY INPUT SYSTEM" shown below.

- AV control unit functions by transmitting/receiving data one by one with each unit (slave unit) that configures them completely as a master unit by connecting between units that configure the 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 signals from the ECM, unified meter and A/C amp. It computes and displays fuel economy information values with the obtained information. The transmitting/receiving of data signals is performed by BCM. In addition, it transmits the required signal of vehicle setting and receives the response signal.
- AV control unit is connected with display and serial communication, and it transmits the required signal of display and display control and receives the response signal from front display. Also, it is connected with satellite radio by serial communication, and it transmits the operating signal and receives the display signal.

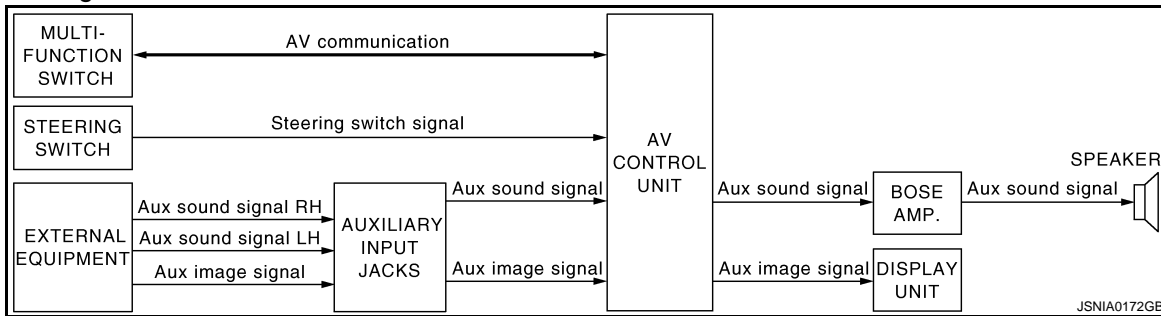
NOTE:

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

- CONSULT-III self-diagnosis: refer to [AV-201, "CONSULT-III Function \(MULTI AV\)"](#).
 - On board self-diagnosis: refer to [AV-192, "Diagnosis Description"](#).
- On board self-diagnosis of TEL adapter unit can be performed.
- Refer to [AV-205, "Diagnosis Description"](#) for on board self-diagnosis.

AUXILIARY INPUT SYSTEM

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



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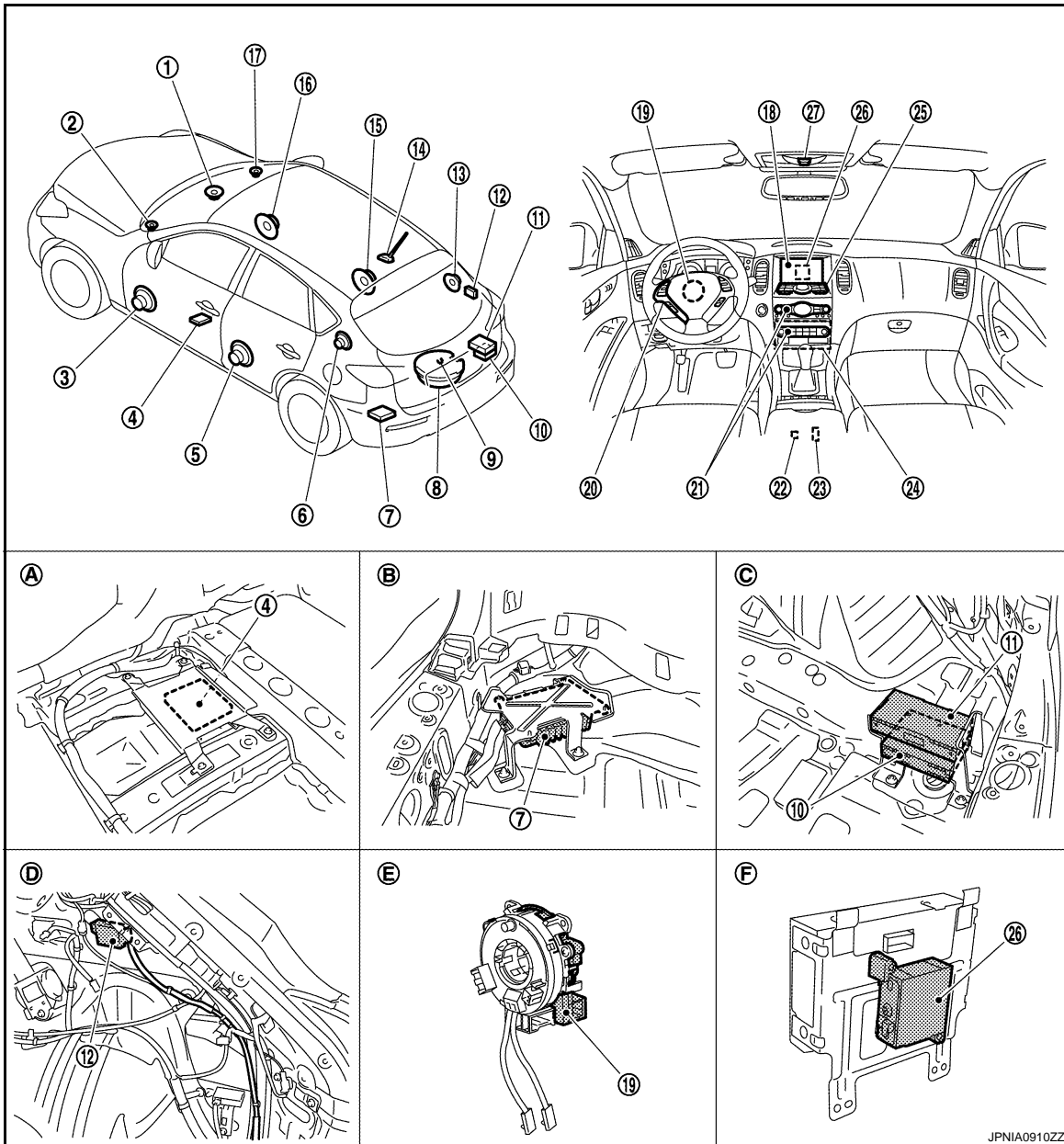
MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Component Parts Location

INFOID:000000003567028



JPNIA0910ZZ

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|-------------------------------|--|----------------------------------|
| 1. Center speaker | 2. Front squawker LH | 3. Front door speaker LH |
| 4. Camera control unit | 5. Rear door speaker LH | 6. Rear squawker LH |
| 7. BOSE amp. | 8. Woofer | 9. Rear view camera |
| 10. Satellite radio tuner | 11. TEL adapter unit | 12. TEL antenna |
| 13. Rear squawker RH | 14. Antenna base (antenna amp and satellite antenna) | 15. Rear door speaker RH |
| 16. Front door speaker RH | 17. Front squawker RH | 18. Display unit |
| 19. Steering angle sensor | 20. Steering switch | 21. Preset switch |
| 22. iPod connector | 23. Auxiliary input jacks | 24. AV control unit |
| 25. Multifunction switch | 26. iPod adapter | 27. Microphone |
| A. Under front seat (LH side) | B. Luggage floor (LH side) | C. Luggage floor (RH side) |
| D. Luggage side RH | E. Spiral cable part | F. Rear view of the display unit |

MULTI AV SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

Component Description

INFOID:000000003508653

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from AV control unit. AV control unit includes audio function and vehicle information function. It is connected to ECM and unified meter and A/C amp via CAN communication to obtain necessary information for the vehicle information function. It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function. It inputs the illumination signals that are required for display dimming control. It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake). Auxiliary image signal is input from the auxiliary input jacks. Camera image signal is input from camera control unit. AV control unit recognizes the presence of camera system with camera connection recognition signal.
DISPLAY UNIT	<ul style="list-style-type: none"> Display image is controlled by the serial communication from AV control unit. RGB image signal is input from AV control unit (RGB, RGB area and RGB synchronizing). Synchronizing signal (HP, VP) is output to AV control unit. Composite image signal is input from AV control unit.
BOSE AMP.	<ul style="list-style-type: none"> Inputs power (amp. ON) and sound signal from AV control unit, and outputs sound signal to woofer and each speaker. Input "Driver's Audio Stage" mode change signal from AV control unit. Woofer amp. ON signal is transmitted to woofer.
FRONT DOOR SPEAKER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs sound (mid and low range).
REAR DOOR SPEAKER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs sound (mid and low range).
FRONT SQUAWKER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs sound (high and mid range).
REAR SQUAWKER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs sound (high and mid range).
CENTER SPEAKER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs sound (high and mid range).
WOOFER	<ul style="list-style-type: none"> Inputs power (amp. ON) and sound signal from BOSE amp. Outputs low-frequency sound.
MULTIFUNCTION SWITCH	<ul style="list-style-type: none"> Operation panel is equipped with the centralized switch where audio and auxiliary input operations are integrated. Connected with preset switch via cable, and operation signal is transmitted to AV control unit via AV communication.
PRESET SWITCH	<ul style="list-style-type: none"> Operation panel is equipped with the centralized switch where audio and air conditioner operations are integrated. Connected with multifunction switch via cable, and operation signal is transmitted to AV control unit via AV communication. The disk ejection operating signal is performed by hardwire.
CAMERA CONTROL UNIT	<ul style="list-style-type: none"> Camera image signal is input from rear view camera. Camera image signal is output to AV control unit. Power (camera ON signal) is transmitted to rear view camera. Superimposes the guiding line and predicted course line to the camera image that outputs to AV control unit. Inputs the sensor signal from steering angle sensor, and then controls the predicted course line. Camera control unit is connected via AV communication.
REAR VIEW CAMERA	<ul style="list-style-type: none"> The image from rear camera is transmitted to camera control unit. It receives power (camera ON signal) from camera control unit and operates.

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MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Part name	Description
STEERING ANGLE SENSOR	Steering signal necessary for possible route line control is transmitted to camera control unit.
STEERING SWITCH	<ul style="list-style-type: none">• Operations such as audio and hands-free phone are possible.• Steering switch signal (operation signal) is output to AV control unit.
MICROPHONE	<ul style="list-style-type: none">• Used only when hands-free phone is operated.• Outputs Mic. signal (TEL voice signal) to TEL adapter unit.• The power (Mic. power supply) is supplied from TEL adapter unit.
AUXILIARY INPUT JACKS	The image signal of the auxiliary input is output via AV control unit to display, and it outputs the sound signal to AV control unit.
ANTENNA BASE	<p>A radio antenna base integrated with radio antenna amp. and satellite radio antenna is adopted.</p> <p>ANTENNA AMP.</p> <ul style="list-style-type: none">• Radio signal received by glass antenna is amplified and transmitted to AV control unit.• Power (antenna amp. ON signal) is supplied from AV control unit. <p>SATELLITE RADIO ANTENNA</p> <ul style="list-style-type: none">• Receives the satellite radio waves and outputs it to satellite radio tuner.
TEL ADAPTER UNIT	<ul style="list-style-type: none">• Inputs the TEL voice signal from TEL antenna and outputs it to AV control unit.• It is connected with AV control unit via AV communication and controlled with AV control unit.
TEL ANTENNA	Receives the TEL voice signal and outputs it to TEL adapter unit.
SATELLITE RADIO TUNER	<ul style="list-style-type: none">• Inputs the satellite radio signal from satellite radio antenna and outputs the sound signal to AV control unit.• It is controlled with AV control unit and serial communication (communication signal and request signal).
iPod ADAPTER	<ul style="list-style-type: none">• Inputs iPod sound signal from iPod[®], and outputs iPod sound signal to AV control unit.• Receiving/transmitting of iPod[®] operation signals are performed as follows:<ul style="list-style-type: none">- between AV control unit and iPod adapter: AV communication.- between iPod[®] and iPod adapter: serial communication.

AUDIO SYSTEM

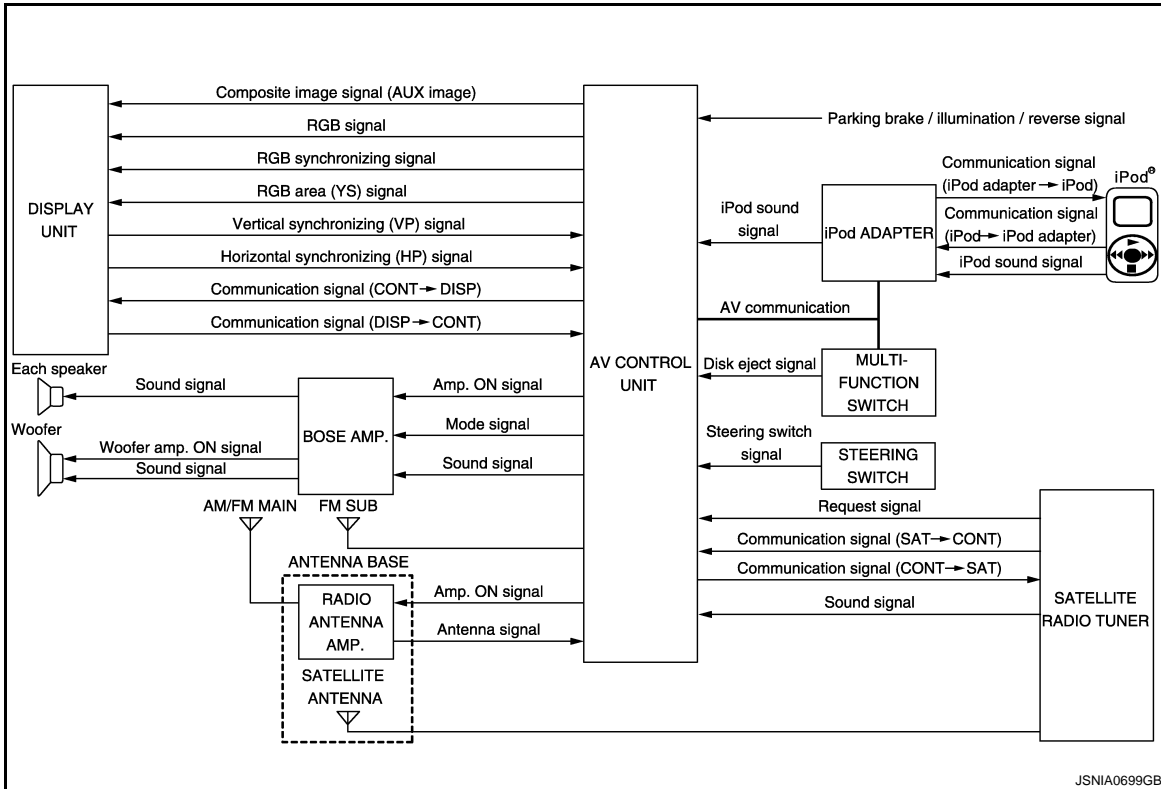
< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

AUDIO SYSTEM

System Diagram

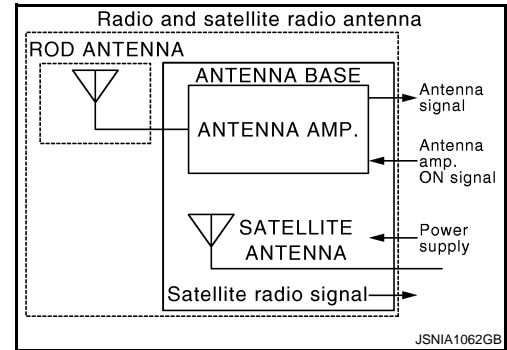
INFOID:000000003508654



JSNIA0699GB

NOTE:

A radio antenna base integrated with radio antenna and satellite radio antenna is adopted.



JSNIA1062GB

System Description

INFOID:000000003508655

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

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

FUNCTION DESCRIPTION

Operating signal

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

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AV

AUDIO SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

- 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 hardwire.
- Operating signal is transmitted to AV control unit with steering switch signal when it is operated by steering switch.

Screen display

- The display is switched by communication signal between display and AV control unit.
- The image signal that displays operating status is performed by the RGB signal, RGB area signal and RGB image synchronizing signal.

AM/FM Radio Mode

- AM/FM radio tuner is built into AV control unit.
- Audio signal is received by rod antenna, next it is amplified by antenna amp., and finally it is input into AV control unit. The FM sub antenna is installed on the back door window glass and AV control unit receives audio signal.
- Audio signal is input to BOSE amp., BOSE amp. outputs to woofer and each speaker from AV control unit.

Satellite Radio System

- Satellite radio tuner is controlled by serial communication and request signal from AV control unit.
- Satellite radio wave is received by satellite radio antenna and is input into satellite radio tuner. Satellite radio tuner outputs satellite radio sound signal to AV control unit. AV control unit outputs satellite radio sound signal to BOSE amp., BOSE amp. outputs the sound signal to each speaker and woofer.

CD Mode

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

iPod Connection

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

Driver's Audio Stage Mode

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

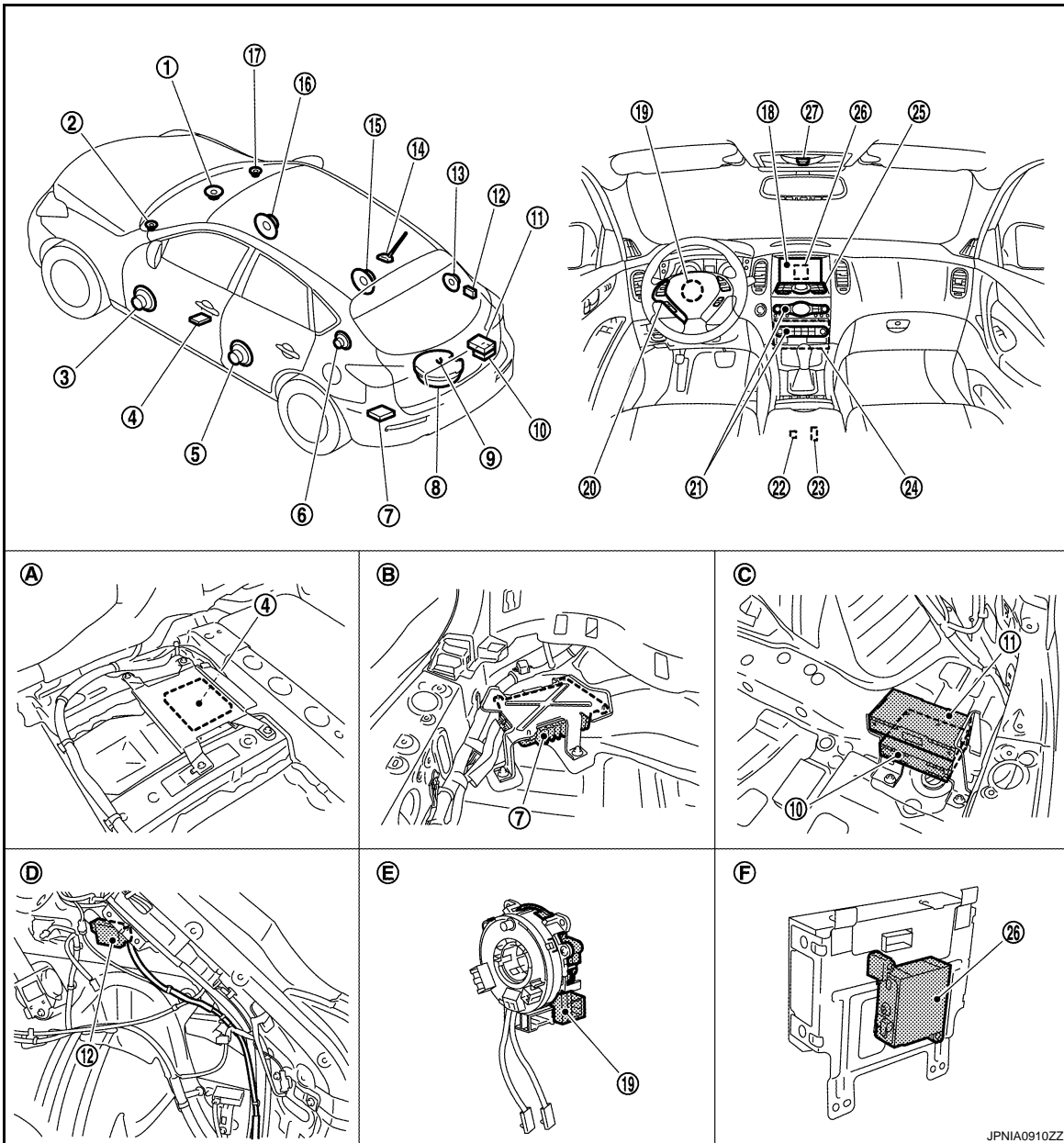
AUDIO SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Component Parts Location

INFOID:000000003579813



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|-------------------------------|--|----------------------------------|
| 1. Center speaker | 2. Front squawker LH | 3. Front door speaker LH |
| 4. Camera control unit | 5. Rear door speaker LH | 6. Rear squawker LH |
| 7. BOSE amp. | 8. Woofer | 9. Rear view camera |
| 10. Satellite radio tuner | 11. TEL adapter unit | 12. TEL antenna |
| 13. Rear squawker RH | 14. Antenna base (antenna amp and satellite antenna) | 15. Rear door speaker RH |
| 16. Front door speaker RH | 17. Front squawker RH | 18. Display unit |
| 19. Steering angle sensor | 20. Steering switch | 21. Preset switch |
| 22. iPod connector | 23. Auxiliary input jacks | 24. AV control unit |
| 25. Multifunction switch | 26. iPod adapter | 27. Microphone |
| A. Under front seat (LH side) | B. Luggage floor (LH side) | C. Luggage floor (RH side) |
| D. Luggage side RH | E. Spiral cable part | F. Rear view of the display unit |

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AUDIO SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

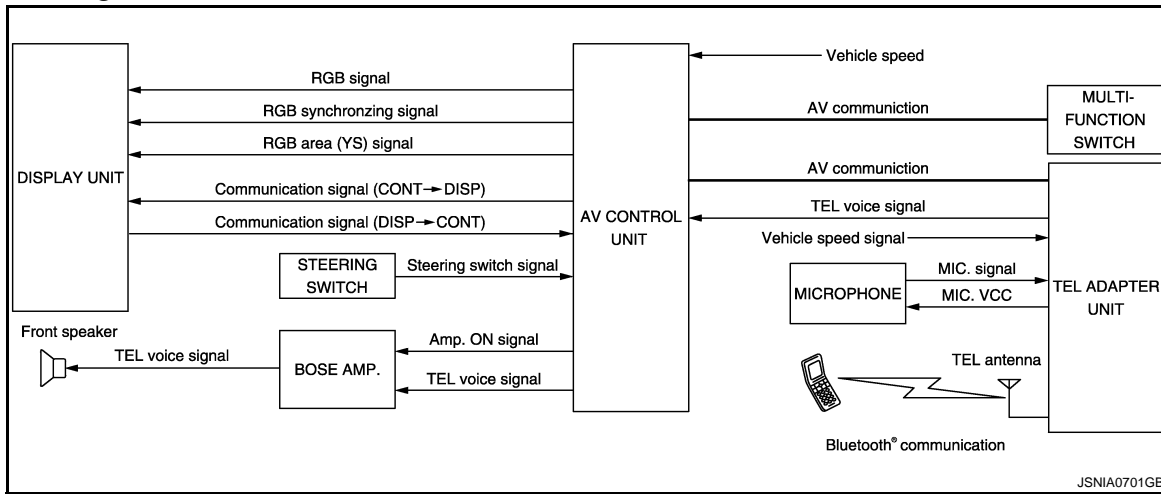
Component Description

INFOID:000000003508657

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• The AM/FM receiving function and the CD playing function are equipped.• BOSE amp. ON signal and sound signal are transmitted to BOSE amp.
DISPLAY UNIT	<ul style="list-style-type: none">• Display image is controlled by the serial communication from AV control unit.• RGB image signal (audio operation condition) is input from AV control unit.
BOSE AMP.	<ul style="list-style-type: none">• Inputs power (amp. ON) and sound signal from AV control unit, and outputs sound signal to woofer and each speaker.• Input "Driver's Audio Stage" mode change signal from AV control unit.• Woofer amp. ON signal is transmitted to woofer.
FRONT DOOR SPEAKER	<ul style="list-style-type: none">• Outputs sound signal from BOSE amp.• Outputs sound (mid and low range).
REAR DOOR SPEAKER	<ul style="list-style-type: none">• Outputs sound signal from BOSE amp.• Outputs sound (mid and low range).
FRONT SQUAWKER	<ul style="list-style-type: none">• Outputs sound signal from BOSE amp.• Outputs sound (high and mid range).
REAR SQUAWKER	<ul style="list-style-type: none">• Outputs sound signal from BOSE amp.• Outputs sound (high and mid range).
CENTER SPEAKER	<ul style="list-style-type: none">• Outputs sound signal from BOSE amp.• Outputs sound (high and mid range).
WOOFER	<ul style="list-style-type: none">• Inputs power (amp. ON) and sound signal from BOSE amp.• Outputs low-frequency sound.
MULTIFUNCTION SWITCH	<ul style="list-style-type: none">• Each audio operation can be operated.• Connected with preset switch via cable, and operation signal is transmitted to AV control unit via AV communication.
PRESET SWITCH	<ul style="list-style-type: none">• Each audio operation can be operated.• It is connected to multifunction switch by AV communication. The operation signal is transmitted to AV control unit.• The CD ejection operating signal is performed by hardwire.
STEERING SWITCH	<ul style="list-style-type: none">• Each audio operation can be operated.• Steering switch signal (operation signal) is output to AV control unit.
ANTENNA BASE	<p>A radio antenna base integrated with radio antenna amp. and satellite radio antenna is adopted.</p> <p>ANTENNA AMP.</p> <ul style="list-style-type: none">• Radio signal received by glass antenna is amplified and transmitted to AV control unit.• Power (antenna amp. ON signal) is supplied from AV control unit. <p>SATELLITE RADIO ANTENNA</p> <ul style="list-style-type: none">• Receives the satellite radio waves and outputs it to satellite radio tuner.
iPod ADAPTER	<ul style="list-style-type: none">• Inputs iPod sound signal from iPod®, and outputs iPod sound signal to AV control unit.• Receiving/transmitting of iPod® operation signals are performed as follows:<ul style="list-style-type: none">- between AV control unit and iPod adapter: AV communication.- between iPod® and iPod adapter: serial communication.

HANDS-FREE PHONE SYSTEM

System Diagram



System Description

INFOID:000000003508659

- TEL adapter unit is controlled with AV communication from AV control unit.
- The connection between portable telephone and TEL adapter unit is performed via Bluetooth[®] communication.
- The voice guidance signal is input from TEL adapter unit to AV control unit and output via BOSE amp. to front speaker when operating TEL.
- TEL adapter unit has the on board self-diagnosis function. Refer to [AV-205. "Diagnosis Description"](#).

When receiving a call

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

When a call is transmitted

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

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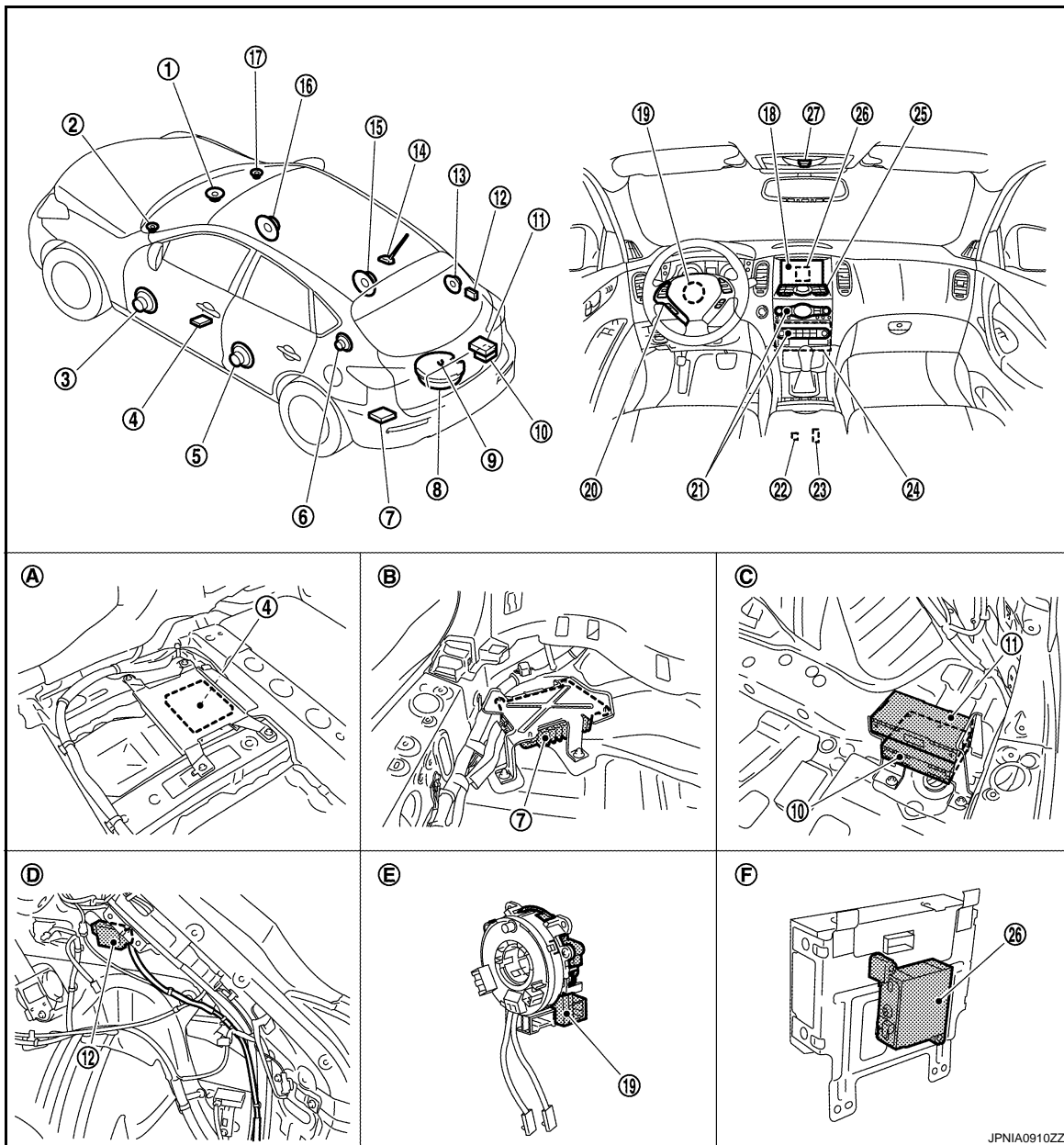
HANDS-FREE PHONE SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

Component Parts Location

INFOID:000000003579814



JPNIA0910ZZ

- | | | |
|-------------------------------|--|----------------------------------|
| 1. Center speaker | 2. Front squawker LH | 3. Front door speaker LH |
| 4. Camera control unit | 5. Rear door speaker LH | 6. Rear squawker LH |
| 7. BOSE amp. | 8. Woofer | 9. Rear view camera |
| 10. Satellite radio tuner | 11. TEL adapter unit | 12. TEL antenna |
| 13. Rear squawker RH | 14. Antenna base (antenna amp and satellite antenna) | 15. Rear door speaker RH |
| 16. Front door speaker RH | 17. Front squawker RH | 18. Display unit |
| 19. Steering angle sensor | 20. Steering switch | 21. Preset switch |
| 22. iPod connector | 23. Auxiliary input jacks | 24. AV control unit |
| 25. Multifunction switch | 26. iPod adapter | 27. Microphone |
| A. Under front seat (LH side) | B. Luggage floor (LH side) | C. Luggage floor (RH side) |
| D. Luggage side RH | E. Spiral cable part | F. Rear view of the display unit |

HANDS-FREE PHONE SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

INFOID:000000003508661

Component Description

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

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AV

REAR VIEW MONITOR SYSTEM

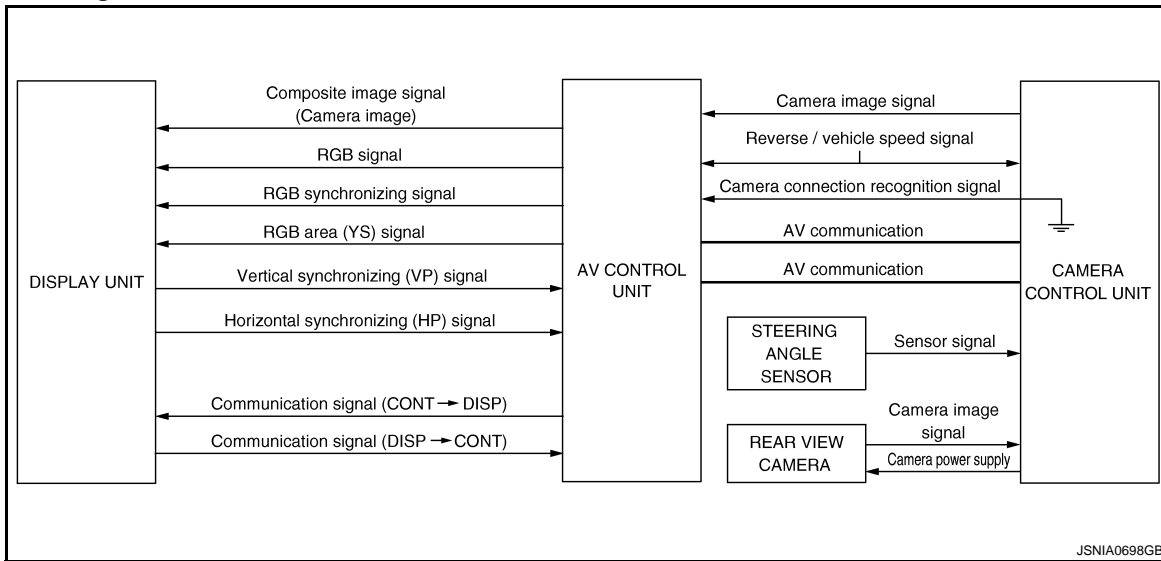
[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

REAR VIEW MONITOR SYSTEM

System Diagram

INFOID:000000003161227



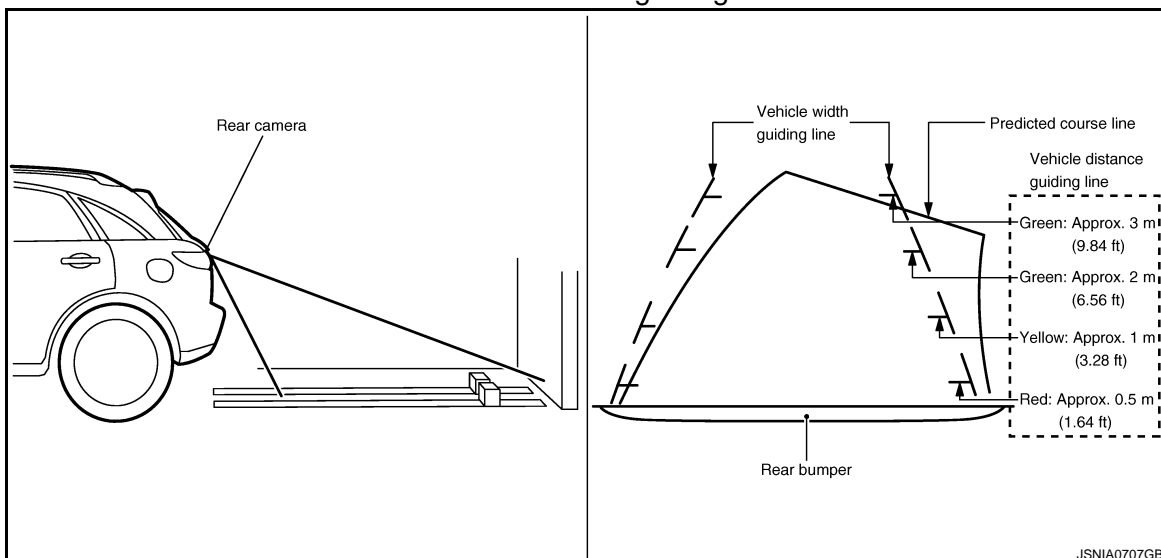
System Description

INFOID:000000003161228

CAMERA IMAGE OPERATION PRINCIPLE

- Power is supplied to rear view camera from camera control unit and the rear view camera outputs the camera image to camera control unit when selector lever is set to reverse position and the reverse signal on camera control unit is input.
- Camera control unit superimposes the guiding line and predicted course line to the image from rear view camera and outputs to display unit. In this case, the reverse signal is also input to AV control unit. Therefore, AV control unit recognizes the selector lever as in the reverse position. And then AV control unit switches the image displayed by the communication signal between AV control unit and display unit with the camera image.
- AV control unit outputs camera image signal that is inputted from camera control unit to display unit.
- Camera control unit controls the direction and distance of predicted course line according to the sensor signal from steering angle sensor.
- AV control unit determines whether rear view camera is equipped or not, based on the presence of camera connection recognition signal. It switches to rear view monitor image at the time of reverse signal input when rear view camera is equipped.
- Warning message under the rear view monitor display is described by AV control unit.

Rear view monitor guiding line



REAR VIEW MONITOR SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

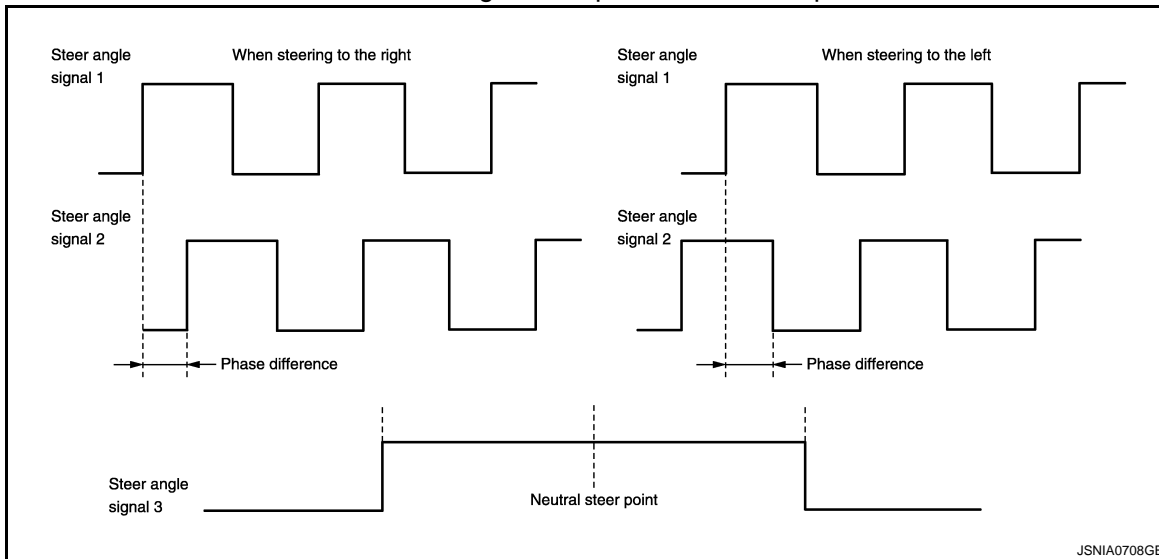
PREDICTED COURSE LINE OPERATION PRINCIPLE

Detection of steering rotation direction

Camera control unit detects the rotation direction of steering according to the phase difference of two pairs of pulse signals (sensor signal 1 and sensor signal 2) input from steering angle sensor.

Detection of steering neutral position

The sensor signal 3 input from steering angle sensor is generated at 1 pulse per 1 rotation of the steering wheel. Camera control unit detects the steering neutral position from this pulse.



Correction of steering neutral position

Camera control unit corrects the steering neutral position during driving according to the vehicle speed signal and sensor signal.

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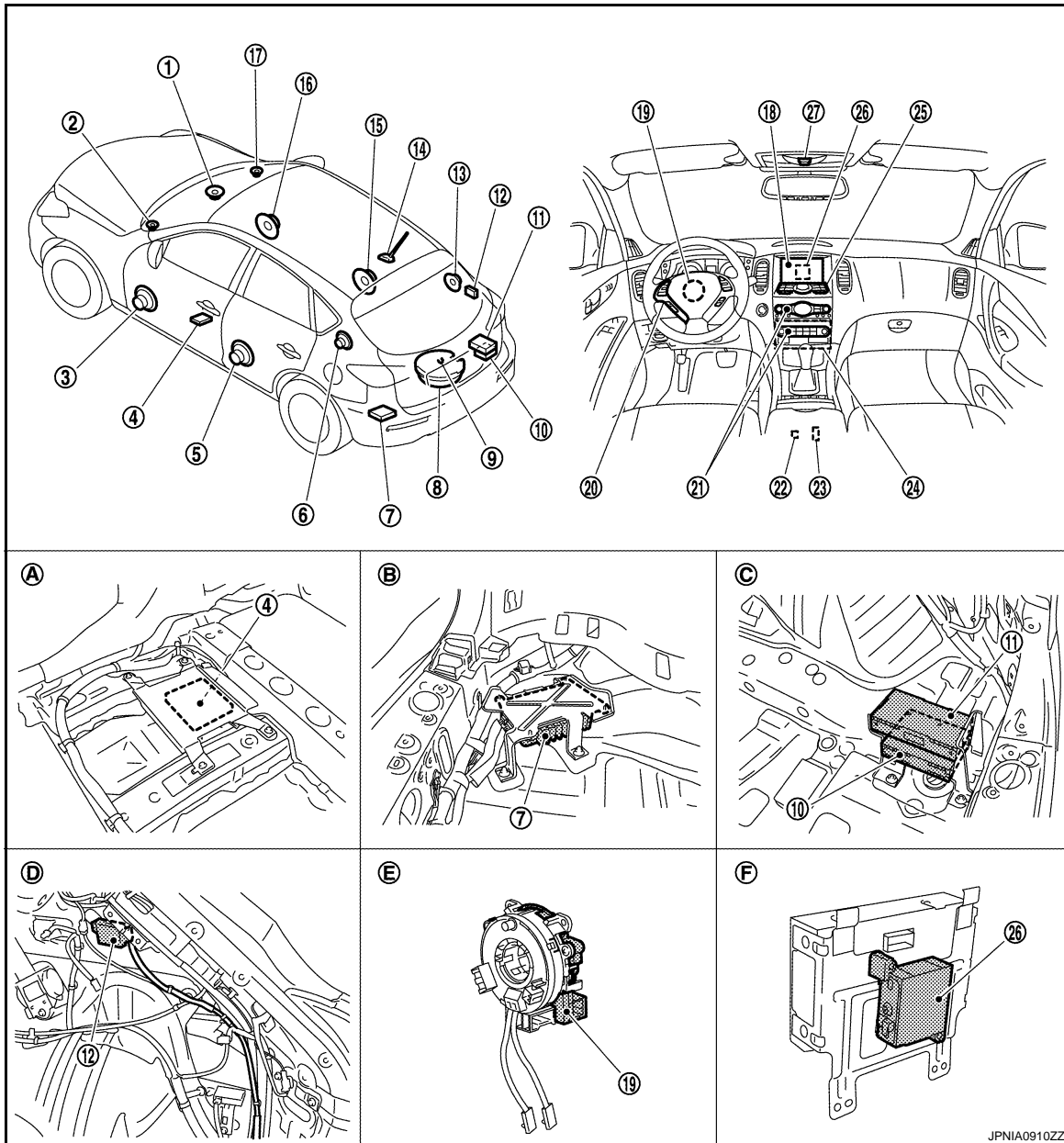
REAR VIEW MONITOR SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

Component Parts Location

INFOID:00000003579815



JPNIA0910ZZ

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| 1. Center speaker | 2. Front squawker LH | 3. Front door speaker LH |
| 4. Camera control unit | 5. Rear door speaker LH | 6. Rear squawker LH |
| 7. BOSE amp. | 8. Woofer | 9. Rear view camera |
| 10. Satellite radio tuner | 11. TEL adapter unit | 12. TEL antenna |
| 13. Rear squawker RH | 14. Antenna base (antenna amp and satellite antenna) | 15. Rear door speaker RH |
| 16. Front door speaker RH | 17. Front squawker RH | 18. Display unit |
| 19. Steering angle sensor | 20. Steering switch | 21. Preset switch |
| 22. iPod connector | 23. Auxiliary input jacks | 24. AV control unit |
| 25. Multifunction switch | 26. iPod adapter | 27. Microphone |
| A. Under front seat (LH side) | B. Luggage floor (LH side) | C. Luggage floor (RH side) |
| D. Luggage side RH | E. Spiral cable part | F. Rear view of the display unit |

REAR VIEW MONITOR SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

Component Description

INFOID:000000003534102

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> Image on display is transmitted to rear view monitor image by serial communication between AV control unit and display unit. Warning displayed on the rear view monitor image is illustrated. AV control unit recognizes the presence of camera system with camera connection recognition signal.
DISPLAY UNIT	<ul style="list-style-type: none"> Camera image signal is input from AV control unit. RGB signal for warning display is input from AV control unit. Rear view monitor image is changed by serial communication from AV control unit.
CAMERA CONTROL UNIT	<ul style="list-style-type: none"> Camera image signal is input from rear view camera. Camera image signal is output to AV control unit. Power (camera ON signal) is transmitted to rear view camera. Superimpose the guiding line and predicted course line to the camera image that outputs to AV control unit. Inputs the sensor signal from steering angle sensor, and then controls the predicted course line. Camera control unit is connected via AV communication.
REAR VIEW CAMERA	<ul style="list-style-type: none"> The image of vehicle rear view is transmitted to camera control unit. It receives power (camera ON signal) from camera control unit and operates.
STEERING ANGLE SENSOR	Steering signal necessary for predicted course line control is transmitted to camera control unit.

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DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

Diagnosis Description

INFOID:000000003508662

MULTIFUNCTION SWITCH AND PRESET SWITCH SELF-DIAGNOSIS FUNCTION

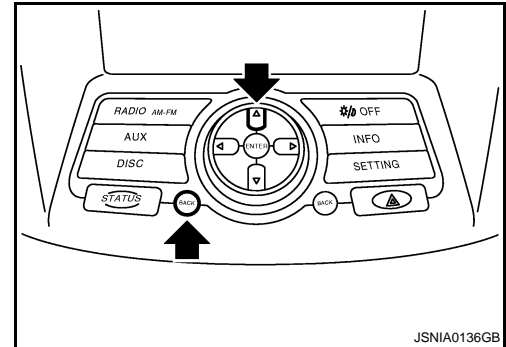
The ON/OFF operation (continuity) of each switch in the multifunction switch and preset switch can be checked.

Self-diagnosis mode

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

CAUTION:

The hazard switch and disk eject switch cannot be checked.



Finishing self-diagnosis mode

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

MULTI AV SYSTEM ON BOARD DIAGNOSIS FUNCTION

- The AV control unit diagnosis function starts up with multifunction switch operation and 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, multifunction switch does not function, etc.

ON BOARD DIAGNOSIS

Description

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

On board diagnosis item

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

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

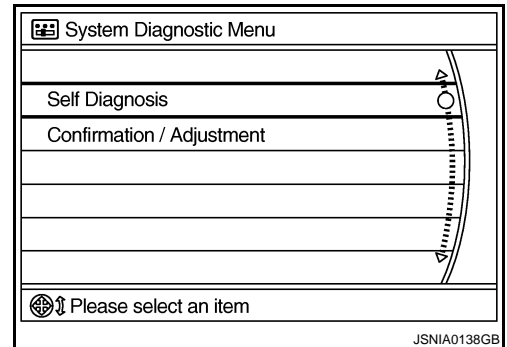
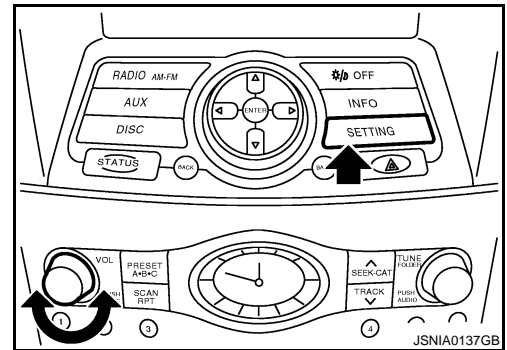
[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

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

STARTING PROCEDURE

1. Start the engine.
2. Turn the audio system OFF.
3. While pressing the "SETTING" button, turn the volume control dial clockwise or counterclockwise for 40 clicks or more. (When the self-diagnosis mode starts, a short beep will sound.)
 - Shifting from the current screen to the previous screen is performed by pressing the "BACK" button.
4. The trouble diagnosis initial screen is displayed, and then the items of "Self Diagnosis" and "Confirmation/Adjustment" can be selected.



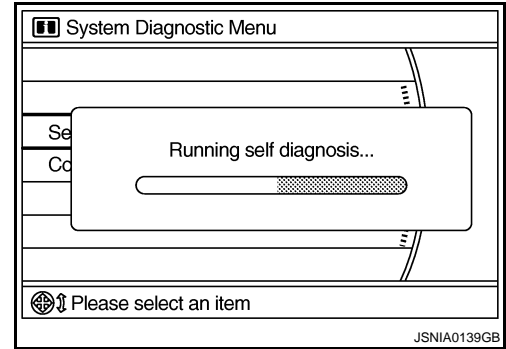
SELF-DIAGNOSIS MODE

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BOSE AUDIO WITHOUT NAVIGATION]

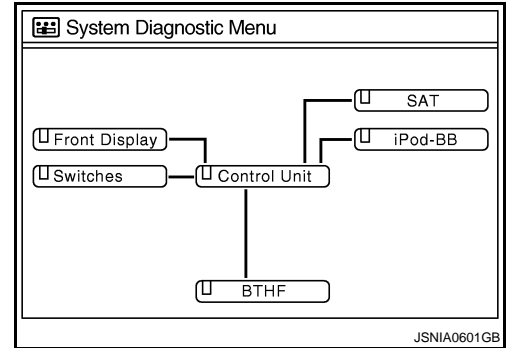
< FUNCTION DIAGNOSIS >

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



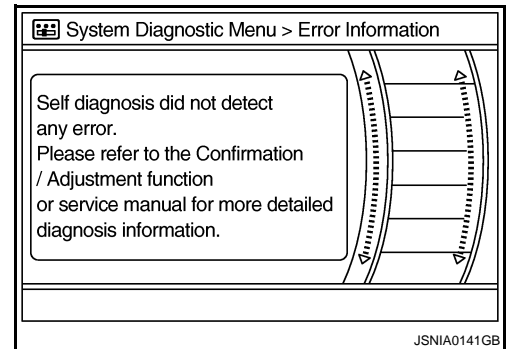
2. Diagnosis results are displayed after the self-diagnosis is completed. The unit names and the connection lines are color-coded according to the diagnostic results.

Diagnosis results	Unit	Con- nection line
Normal	Green	Green
Connection malfunction	Gray	Yellow
Unit malfunction ^{Note}	Red	Green



NOTE:

- Only the control unit (AV control unit) is displayed in red.
 - Replace AV control unit if "Self-Diagnosis did not run because of a control unit malfunction" is indicated. The symptom is an AV control unit internal error. Refer to [AV-412, "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.



SELF-DIAGNOSIS RESULTS

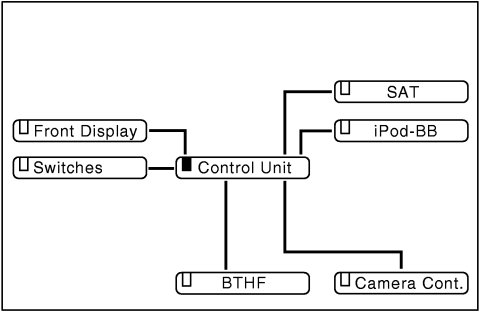
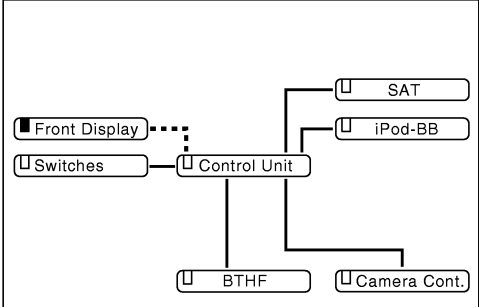
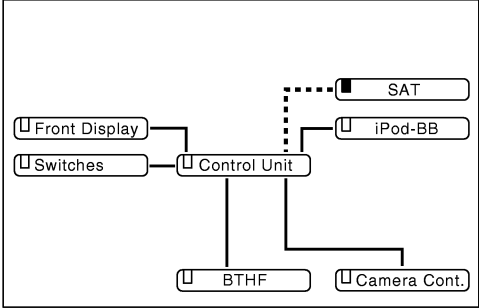
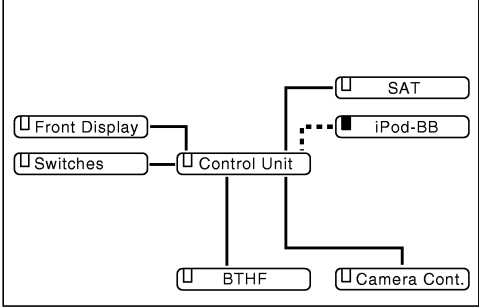
- The self-diagnosis mode allows the technician to diagnose the connection in the communication line between AV control unit and each unit, and the internal operation of AV control unit.
- Because the start condition of the diagnosis function is a switch operation, the on board diagnosis function cannot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

Self-diagnosis result chart

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

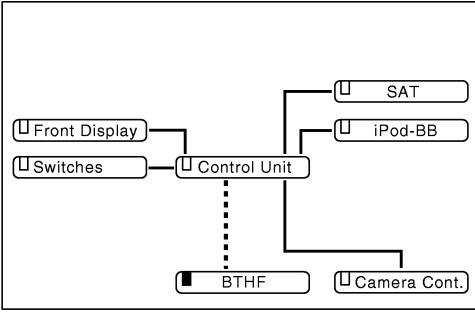
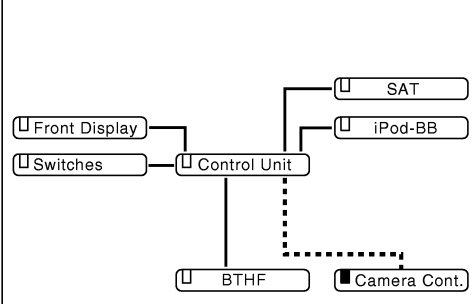
Diagnosis results	Description	Possible malfunction location / Action to take
<p>"Self-Diagnosis did not run because of a control unit malfunction"</p>  <p>■ : Red JPNIA0833GB</p> <p>NOTE: When a control unit malfunction is detected (red in unit display), connection malfunctions with other connection units may be displayed.</p>	<p>AV control unit malfunction is detected.</p> <p>Malfunction is detected in AV control unit power supply or ground circuits.</p>	<p>Replace AV control unit.</p> <p>Check AV control unit power supply and ground circuits. When detecting no malfunction in those components, replace AV control unit.</p>
 <p>■ : Gray - - - - : Yellow JPNIA0834GB</p>	<p>Malfunction is detected in the communication circuits between AV control unit and display unit.</p>	<p>Communication circuits between AV control unit and display unit.</p>
 <p>■ : Gray - - - - : Yellow JPNIA0835GB</p>	<p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • Satellite radio tuner power supply or ground circuits malfunction are detected. • Malfunction is detected in the communication circuits between AV control unit and satellite radio tuner. • Malfunction is detected in the request signal circuit between AV control unit and satellite radio tuner. 	<ul style="list-style-type: none"> • Satellite radio tuner power supply and ground circuit. • Communication circuits between AV control unit and satellite radio tuner. • Request signal circuit between AV control unit and satellite radio tuner.
 <p>■ : Gray - - - - : Yellow JPNIA0836GB</p>	<p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • iPod adapter power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between AV control unit and iPod adapter. 	<ul style="list-style-type: none"> • iPod adapter power supply and ground circuit. • AV communication circuits between AV control unit and iPod adapter.

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DIAGNOSIS SYSTEM (AV CONTROL UNIT)

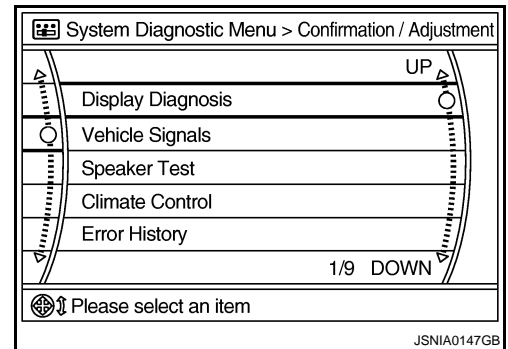
< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

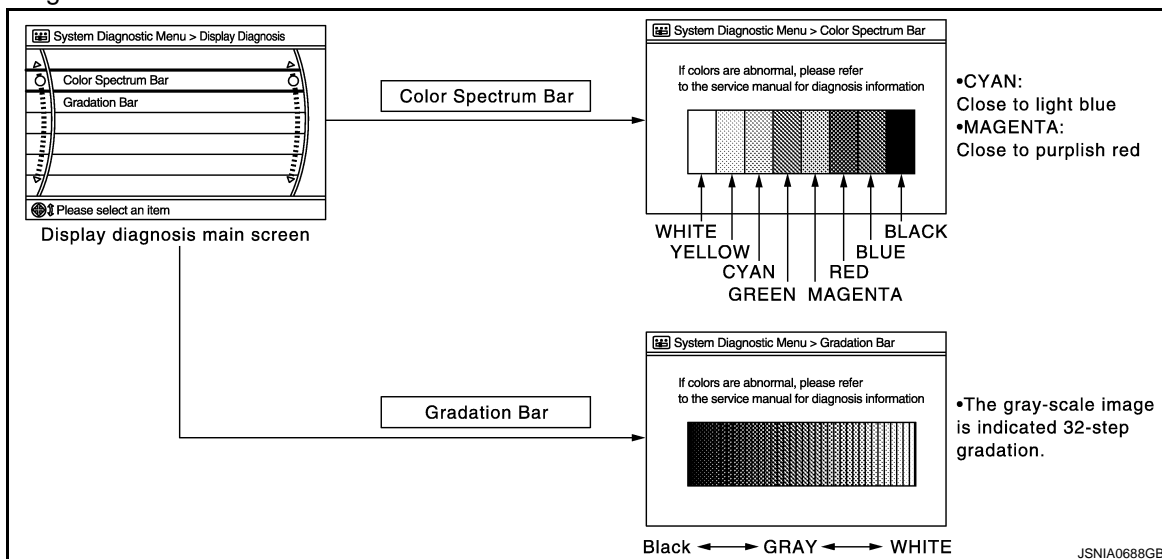
Diagnosis results	Description	Possible malfunction location / Action to take
 <p>■ : Gray - - - - : Yellow</p> <p>JPNIA0837GB</p>	<p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • TEL adapter unit power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between AV control unit and TEL adapter unit. 	<ul style="list-style-type: none"> • TEL adapter unit power supply and ground circuits. • AV communication circuits between AV control unit and TEL adapter unit.
 <p>■ : Red - - - - : Yellow</p> <p>JPNIA0838GB</p>	<p>Malfunction is detected in the camera control unit recognition circuit between AV control unit and camera control unit.</p>	<p>Camera control unit recognition circuit between AV control unit and camera control unit.</p>

CONFIRMATION/ADJUSTMENT MODE

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



Display Diagnosis



DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

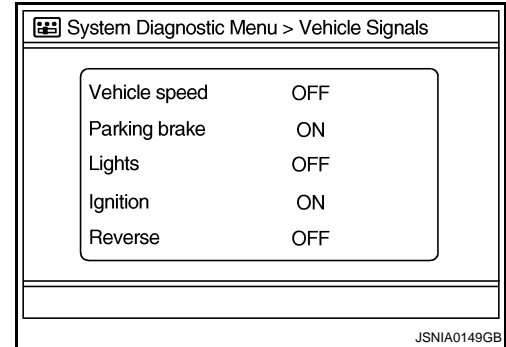
[BOSE AUDIO WITHOUT NAVIGATION]

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

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

Vehicle Signals

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



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

Speaker Test

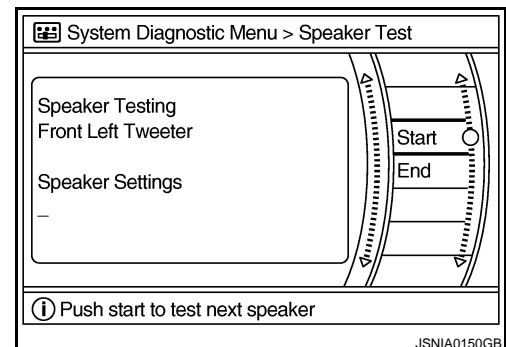
Select "SPEAKER DIAGNOSIS" to display the Speaker Diagnosis screen. Press "START and NEXT" to generate a test tone in a speaker. Press "Start" to generate a test tone in the next speaker. Press "End" to stop the test tones.

NOTE:

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

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

*: Squawker



Climate Control

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

Error History

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

However, the diagnosis results are judged normal if an error has occurred before the ignition 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 condition.

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

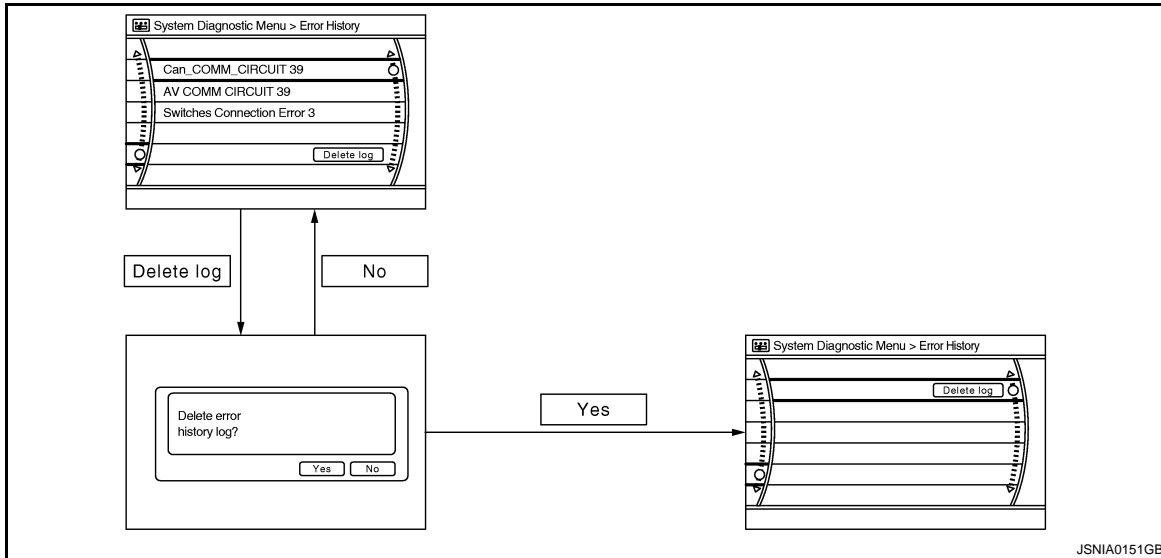
Count up method A

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

Count up method B

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

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



Error item

Error items may be displayed simultaneously according to the cause. If error items are displayed simultaneously, the cause can be detected by the combination of display items.

Error item	Description	Possible malfunction factor/Action to take
CAN COMM CIRCUIT	CAN communication malfunction is detected.	Perform diagnosis with CONSULT-III, and then repair malfunctioning parts according to the diagnosis results. Refer to AV-201, "CONSULT-III Function (MULTI AV)" .
CONTROL UNIT (CAN)	CAN initial diagnosis malfunction is detected.	Replace AV control unit.
CONTROL UNIT (AV)	AV communication circuit initial diagnosis malfunction is detected.	
FLASH-ROM Error Of Control Unit CAN Controller Memory Error	AV control unit malfunction is detected.	
Front Display Connection Error	When either one of the following items are detected: <ul style="list-style-type: none"> • Display unit power supply or ground circuits malfunction are detected. • Malfunction is detected in the communication circuits between AV control unit and display unit. 	<ul style="list-style-type: none"> • Display unit power supply and ground circuits. • Communication circuits between AV control unit and display unit.

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
SAT Connection Error	When either one of the following items are detected: <ul style="list-style-type: none"> • Satellite radio tuner power supply or ground circuits malfunction are detected. • Malfunction is detected in the communication circuits between AV control unit and satellite radio tuner. • Malfunction is detected in the request signal circuit between AV control unit and satellite radio tuner. 	<ul style="list-style-type: none"> • Satellite radio tuner power supply and ground circuits. • Communication circuits between AV control unit and satellite radio tuner. • Request signal circuit between AV control unit and satellite radio tuner.
Camera Control Unit Connection Error	Malfunction is detected in the camera connection recognition circuit between AV control unit and camera control unit.	Camera-connection recognition circuit between AV control unit and camera control unit.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Switches Connection Error 	When either one of the following items are detected: <ul style="list-style-type: none"> • Multifunction switch power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between AV control unit and the junction between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuits. • AV communication circuits between AV control unit and the junction between AV control unit and multifunction switch.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • iPod Connection Error 	When either one of the following items are detected: <ul style="list-style-type: none"> • iPod adapter unit power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between AV control unit and the junction between AV control unit and iPod adapter. 	<ul style="list-style-type: none"> • iPod adapter power supply and ground circuits. • AV communication circuits between AV control unit and the junction between AV control unit and iPod adapter.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Rear View Camera Connection Error 	Camera control unit power supply or ground circuits malfunction is detected.	Camera control unit power supply and ground circuits.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • H/F Unit Connection Error 	WITHOUT REAR VIEW MONITOR When either one of the following items are detected: <ul style="list-style-type: none"> • TEL adapter unit power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between TEL adapter unit and the junction between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> • TEL adapter unit power supply and ground circuits. • AV communication circuits between TEL adapter unit and the junction between AV control unit and multifunction switch.
	WITH REAR VIEW MONITOR When either one of the following items are detected: <ul style="list-style-type: none"> • TEL adapter unit power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between camera control unit and TEL adapter unit. 	<ul style="list-style-type: none"> • TEL adapter unit power supply and ground circuit. • AV communication circuits between camera control unit and TEL adapter unit.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Rear View Camera Connection Error • H/F Unit Connection Error 	Malfunction is detected in the AV communication circuits between camera control unit and the junction between camera control unit and multifunction switch.	AV communication circuits between camera control unit and the junction between camera control unit and multifunction switch.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Switches Connection Error • iPod Unit Connection Error • H/F Unit Connection Error 	Malfunction is detected in the AV communication circuits between the AV control unit and the junction between AV control unit and multifunction switch.	AV communication circuits between AV control unit and the junction between AV control unit and multifunction switch.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Switches Connection Error • iPod Unit Connection Error • Rear View Camera Connection Error • H/F Unit Connection Error 	Malfunction is detected in the AV communication circuits between AV control unit and the junction between AV control unit and multifunction switch.	AV communication circuits between AV control unit and the junction between AV control unit and multifunction switch.

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DIAGNOSIS SYSTEM (AV CONTROL UNIT)

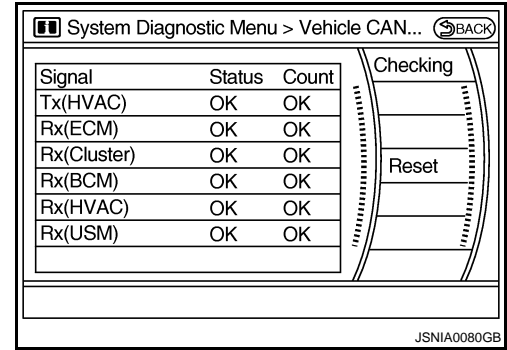
[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

Vehicle CAN Diagnosis

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

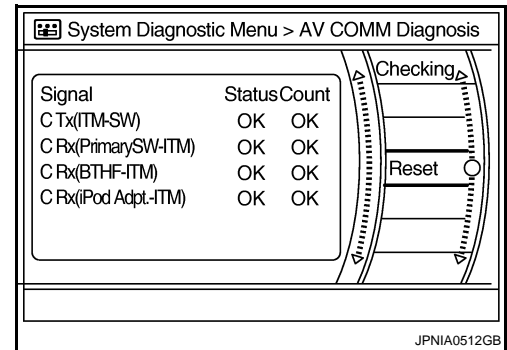
Items	Display (Current)	Malfunction counter (Past)
Tx(HVAC)	OK / UNKWN	OK / 0 - 39
Rx(ECM)	OK / UNKWN	OK / 0 - 39
Rx(Cluster)	OK / UNKWN	OK / 0 - 39
Rx(BCM)	OK / UNKWN	OK / 0 - 39
Rx(HVAC)	OK / UNKWN	OK / 0 - 39
Rx(USM)	OK / UNKWN	OK / 0 - 39



AV COMM Diagnosis

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

Items	Status (Current)	Counter (Past)
C Tx(ITM-SW)	OK / UNKWN	OK / 0 - 39
C Rx(PrimarySW-ITM)	OK / UNKWN	OK / 0 - 39
C Rx(BTHF-ITM)	OK / UNKWN	OK / 0 - 39
C Rx(iPod Adpt.-ITM)	OK / UNKWN	OK / 0 - 39

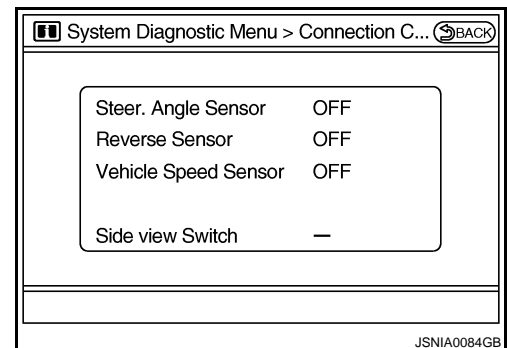


Camera Cont.

The two functions of “Connection Confirmation” and “Adjust Offset of Rear View Camera” are available.

CONNECTION CONFIRMATION

The steering angle sensor, reverse signal and vehicle speed sensor can be inspected.



Diagnosis item	Display	Vehicle status
Steer. Angle Sensor	ON	When steering the vehicle with ignition switch ON (remains ON until connection mode is stopped when it is turned ON)
	OFF	<ul style="list-style-type: none"> • Ignition switch at ACC • No steering with ignition switch ON
	—	Malfunction detected in camera connection recognition signal

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

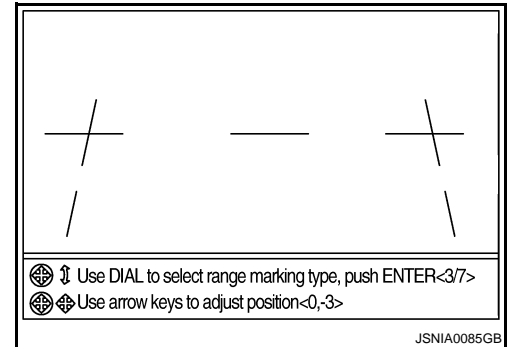
< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Diagnosis item	Display	Vehicle status
Reverse Sensor	ON	Selector lever is in "R" with ignition switch ON
	OFF	<ul style="list-style-type: none"> Ignition switch at ACC Selector lever is in position other than "R" with ignition switch ON
	—	Malfunction detected in camera-connection recognition signal
Vehicle Speed Sensor	ON	Vehicle speed is more than 0 km/h (0 MPH) with ignition switch ON
	OFF	<ul style="list-style-type: none"> Ignition switch at ACC Vehicle speed is 0 km/h (0 MPH) with ignition switch ON
	—	Malfunction detected in camera connection recognition signal
Side view Switch	—	Not used

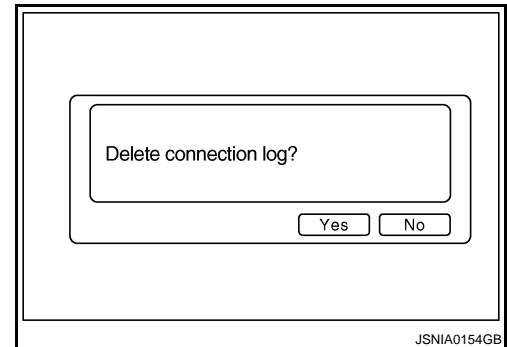
ADJUST OFFSET OF REAR VIEW CAMERA

Use this mode to adjust the guide line display position of the rear view monitor if necessary after removing the rear view monitor camera.



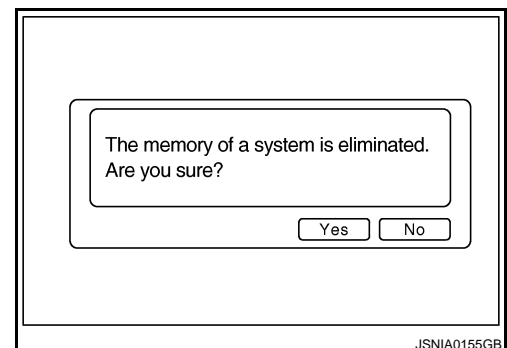
Delete Unit Connection Log

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



Initialize Settings

Initializes AV control unit memory.



CONSULT-III Function (MULTI AV)

INFOID:000000003508663

CONSULT-III functions

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

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Diagnosis mode	Description
Ecu Identification	The part number of AV control unit can be checked.
Self Diagnostic Result	Performs a diagnosis on AV control unit, 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 AV control unit can be performed.

AV COMMUNICATION

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

AV communication	AV&NAVI C/U	Displays the communication status from AV control unit to each unit as well as the error counter.
	AUDIO	Displays 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 simultaneously.
- The timing is displayed as "0" if any of the error codes [U1000], [U1010], [U1300] or [U1310] are detected. The counter increases by 1 if the condition is normal at the next ignition switch ON cycle.

Self-diagnosis results display item

Error item	Description	Possible malfunction factor/Action to take
CAN COMM CIRCUIT [U1000]	CAN communication malfunction is detected.	Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results. Refer to AV-207. "Diagnosis Procedure" .
CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.	Replace AV control unit.
CONTROL UNIT (AV) [U1310]	AV communication circuit initial diagnosis malfunction is detected.	
Control Unit FLASH-ROM [U1200] CAN CONT [U1216]	AV control unit malfunction is detected.	
FRONT DISP CONN [U1243]	When either one of the following items are detected: <ul style="list-style-type: none"> • Display unit power supply or ground circuits malfunction are detected. • Malfunction is detected in communication circuits between AV control unit and display unit. 	<ul style="list-style-type: none"> • Display unit power supply and ground circuits. • Communication circuits between AV control unit and display unit.
SAT CONN [U1255]	When either one of the following items are detected: <ul style="list-style-type: none"> • Satellite radio tuner power supply or ground circuits malfunction are detected. • Malfunction is detected in communication circuits between AV control unit and satellite radio tuner. • Malfunction is detected in request signal circuits between AV control unit and satellite radio tuner. 	<ul style="list-style-type: none"> • Satellite radio tuner power supply and ground circuits. • Communication circuits between AV control unit and satellite radio tuner. • Request signal circuits between AV control unit and satellite radio tuner.
CAMERA CONT. CONN [U1250]	Malfunction is detected in camera connection recognition circuit between AV control unit and camera control unit.	Camera-connection recognition circuit between AV control unit and camera control unit.

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

Error item	Description	Possible malfunction factor/Action to take
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] 	<p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • Multifunction switch power supply or ground circuits malfunction are detected. • Malfunction is detected in AV communication circuits between AV control unit and the junction between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuits. • AV communication circuits between AV control unit and the junction between AV control unit and multifunction switch.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • IPod CONN [U1254] 	<p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • iPod adapter power supply or ground circuits malfunction are detected. • Malfunction is detected in AV control unit and the junction between AV control unit and iPod adapter. 	<ul style="list-style-type: none"> • iPod adapter power supply and ground circuits. • AV communication circuits between AV control unit and the junction between AV control unit and iPod adapter.
<p>WITH REAR VIEW MONITOR</p> <ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • REAR CAMERA LAN CONN [U1252] 	<p>Camera control unit power supply or ground circuits malfunction is detected.</p>	<p>Camera control unit power supply and ground circuits.</p>
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • HAND FREE CONN [U1256] 	<p>WITHOUT REAR VIEW MONITOR</p> <p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • TEL adapter unit power supply or ground circuit malfunction are detected. • Malfunction is detected in AV communication circuits between TEL adapter unit and the junction between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> • TEL adapter unit power supply and ground circuits. • AV communication circuits between TEL adapter unit and the junction between AV control unit and multifunction switch.
	<p>WITH REAR VIEW MONITOR</p> <p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • TEL adapter unit power supply or ground circuits malfunction are detected. • Malfunction is detected in AV communication circuits between camera control unit and TEL adapter unit. 	<ul style="list-style-type: none"> • TEL adapter unit power supply and ground circuits. • AV communication circuits between camera control unit and TEL adapter unit.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • REAR CAMERA LAN CONN [U1252] • HAND FREE CONN [U1256] 	<p>Malfunction is detected in AV communication circuits between camera control unit and the junction between AV control unit and multifunction switch.</p>	<p>AV communication circuits between camera control unit and the junction between AV control unit and multifunction switch.</p>
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • IPod CONN [U1254] • HAND FREE CONN [U1256] 	<p>Malfunction is detected in AV communication circuits between AV control unit and the junction between AV control unit and multifunction switch.</p>	<p>AV communication circuits between AV control unit and the junction between AV control unit and multifunction switch.</p>
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • REAR CAMERA LAN CONN [U1252] • IPod CONN [U1254] • HAND FREE CONN [U1256] 	<p>Malfunction is detected in AV communication circuits between AV control unit and the junction between AV control unit and multifunction switch.</p>	<p>AV communication circuits between AV control unit and the junction between AV control unit and multifunction switch.</p>

DATA MONITOR

ALL SIGNALS

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

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

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

SELECTION FROM MENU

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

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

DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

Diagnosis Description

INFOID:000000003508664

HANDS-FREE PHONE SYSTEM ON BOARD DIAGNOSIS

During on board diagnosis the diagnosis function of TEL adapter unit starts with the operation of steering switch and performs the diagnosis when ignition switch is turned to ACC.

On board diagnosis item

The on board diagnosis has 3 modes: the self-diagnosis mode that performs the trouble diagnosis, the speaker adaptation data deleting mode and the hands-free phone system initialization mode.

CAUTION:

- Perform the diagnosis with the vehicle stopped.
- Perform STEP2 if necessary.

STEP	MODE	Description
STEP1	Self-diagnosis	<ul style="list-style-type: none">• The self-diagnosis mode performs the microphone test.• The self-diagnosis mode also diagnoses TEL adapter unit, TEL antenna and steering switch.• Those results are indicated with voice guidance and displayed on the screen.
STEP2	Speaker adaptation data deleting	The speaker adaptation data deleting mode can delete the speaker adaptation data.
	Hands-free phone system initialization	Hands-free phone system initialization mode can perform the initialization of the hands-free phone system.

Self-diagnosis results

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

NOTE:

- Error count is read out simultaneously when reading out the DTC name.
- The errors are read out continuously when some errors occur at the same time. The DTC displays are combined and displayed. For example, DTC 01100 is displayed when DTC 01000 and DTC 00100 are indicated at the same time.

Self-diagnosis results

DTC	DTC name	Possible causes
DTC 10000	INTERNAL FAILURE	TEL adapter unit
DTC 01000	ANT. SHORT TO BATT OR OPEN	TEL antenna
DTC 00100	ANT. SHORT TO GROUND	
DTC 00010	STEERING REMOTE BUTTON STUCK A	Steering switch
DTC 00001	STEERING REMOTE BUTTON STUCK B	
DTC 00000	THERE ARE NO FAILURE RECORDS TO REPORT	—

The details of error count

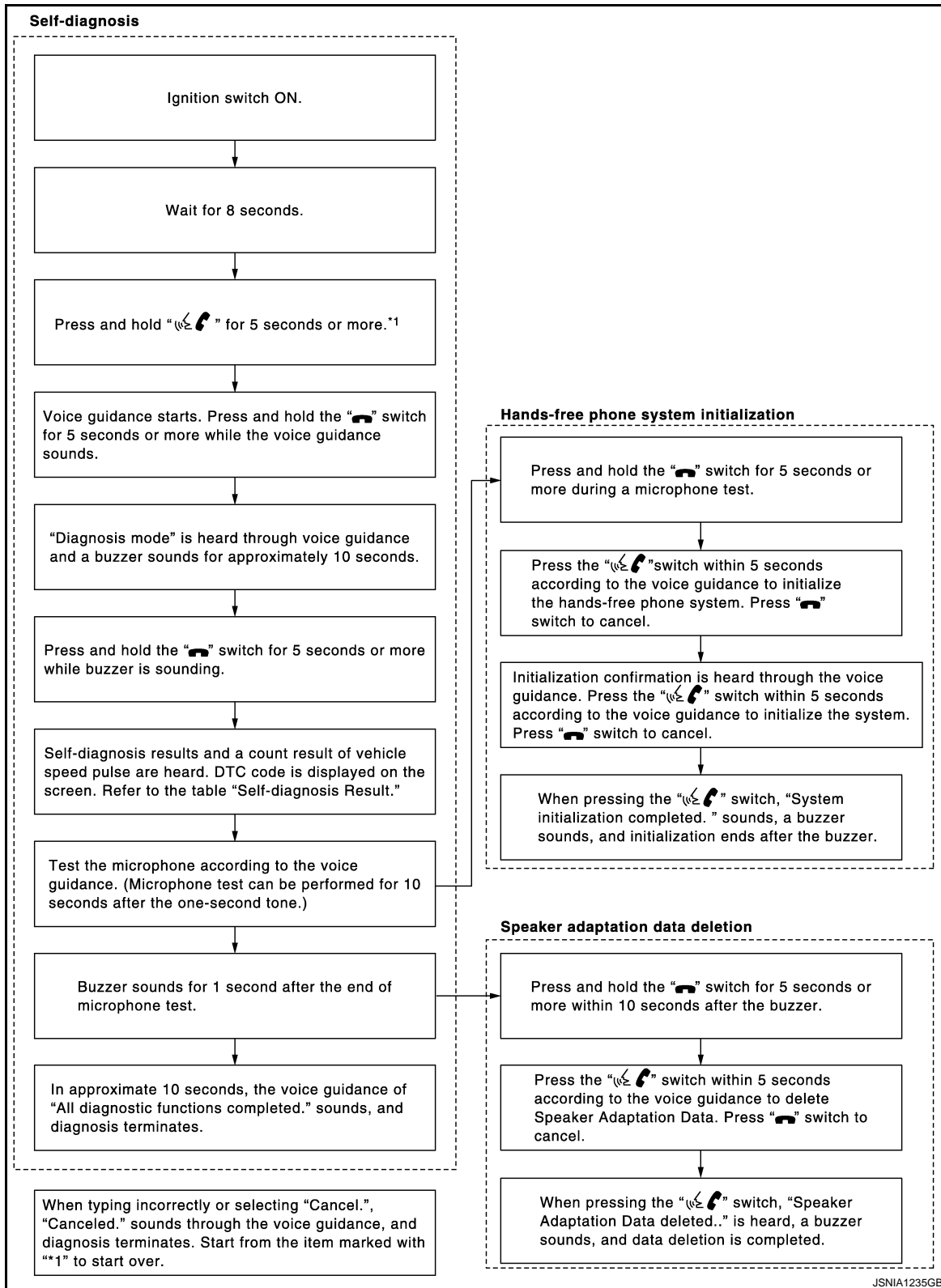
The error count displays "0" when an error occurs. The next time it counts up to "1" if conditions are normal with the ignition switch ON. It continues the count up unless the initialization of hands-free phone system is performed.

DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

FLOW CHART OF TROUBLE DIAGNOSIS



U1000 CAN COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:000000003544741

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-27, "CAN System Specification Chart"](#).

DTC Logic

INFOID:000000003544742

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:000000003544743

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-18, "Trouble Diagnosis Flow Chart"](#).
NO >> Refer to GI section. Refer to [GI-38, "Intermittent Incident"](#).

AV

U1010 CONTROL UNIT (CAN)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

U1010 CONTROL UNIT (CAN)

Description

INFOID:000000003544744

Initial diagnosis of AV control unit.

DTC Logic

INFOID:000000003544745

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:000000003544746

1. REPLACE AV CONTROL UNIT

When DTC U1010 is detected, replace AV control unit.

>> INSPECTION END

U1310 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

U1310 AV CONTROL UNIT

Description

INFOID:000000003544747

Replace the AV control unit if this DTC is displayed. Refer to [AV-156, "Exploded View"](#).

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

DTC Logic

INFOID:000000003544748

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

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AV

U1200 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

U1200 AV CONTROL UNIT

Description

INFOID:000000003544749

Replace the AV control unit if this DTC is displayed. Refer to [AV-412. "Exploded View"](#).

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

DTC Logic

INFOID:000000003544750

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

U1216 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

U1216 AV CONTROL UNIT

Description

INFOID:000000003544751

Replace the AV control unit if this DTC is displayed. Refer to [AV-412. "Exploded View"](#).

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

DTC Logic

INFOID:000000003544752

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

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AV

U1243 DISPLAY UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

U1243 DISPLAY UNIT

Description

INFOID:000000003544753

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

DTC Logic

INFOID:000000003544754

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1243	FRONT DISP CONN [U1243]	<p>When either one of the following items is detected:</p> <ul style="list-style-type: none">• Display unit power supply and ground circuits malfunction is detected.• Malfunction is detected in communication circuits between AV control unit and display unit.	<ul style="list-style-type: none">• Display unit power supply and ground circuits.• Communication circuits between AV control unit and display unit.

Diagnosis Procedure

INFOID:000000003544755

1. CHECK DISPLAY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check display unit power supply and ground circuits. Refer to [AV-218, "DISPLAY UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

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

2. CHECK CONTINUITY COMMUNICATION CIRCUIT

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

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

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

Display unit		Ground	Continuity
Connector	Terminals		
M71	11		Not existed
	22		

Is the inspection result normal?

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

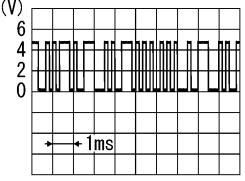
3. CHECK COMMUNICATION SIGNAL (CONT→DISP)

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

U1243 DISPLAY UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

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

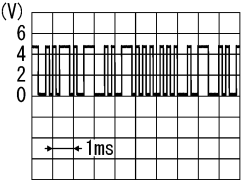
Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

4. CHECK COMMUNICATION SIGNAL (DISP→CONT)

Check signal between display unit harness connector and ground.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace display unit.

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U1250 CAMERA CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

U1250 CAMERA CONTROL UNIT

Description

INFOID:000000003544756

Part name	Description
CAMERA CONTROL UNIT	<ul style="list-style-type: none"> • Camera image signal is input from rear view camera, and camera image is indicated on the display. • Power (camera ON signal) is sent to rear view camera. • Controlled by AV communication sent from AV control unit. • AV control unit recognizes the presence of camera system with camera connection recognition signal.

DTC Logic

INFOID:000000003544757

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1250	CAMERA CONT. CONN [U1250]	A malfunction is detected in Camera-connection recognition signal circuit	Camera-connection recognition signal circuit

Diagnosis Procedure

INFOID:000000003544758

1. CHECK CAMERA-CONNECTION RECOGNITION SIGNAL CIRCUIT

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

AV control unit		Camera control unit		Continuity
Connector	Terminal	Connector	Terminal	
M84	68	B50	14	Existed

Is inspection result normal?

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

2. CHECK AV CONTROL UNIT VOLTAGE

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

(+) AV control unit		(-)	Voltage (Approx.)
Connector	Terminal		
M84	68	Ground	5.0 V

Is inspection result normal?

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

U1255 SATELLITE RADIO TUNER

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

U1255 SATELLITE RADIO TUNER

Description

INFOID:000000003544759

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

DTC Logic

INFOID:000000003544760

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

Diagnosis Procedure

INFOID:000000003544761

1. CHECK SATELLITE RADIO TUNER POWER SUPPLY AND GROUND CIRCUIT

Check satellite radio tuner power supply and ground circuit. Refer to [AV-221, "SATELLITE RADIO TUNER : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

2. CHECK CONTINUITY COMMUNICATION CIRCUIT AND REQUEST SIGNAL CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

U1255 SATELLITE RADIO TUNER

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

3. CHECK AV CONTROL UNIT VOLTAGE

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

(+)		(-)	Voltage (Approx.)		
AV control unit					
Connector	Terminals	Ground			
M82	28				7.5 V
	29				7.0 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

4. CHECK SATELLITE RADIO TUNER

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

(+)		(-)	Voltage (Approx.)
Satellite radio tuner			
Connector	Terminal	Ground	
M236	10		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace satellite radio tuner.

U1300 AV COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

U1300 AV COMM CIRCUIT

Description

INFOID:000000003508683

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

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1300 U1240	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] SWITCH CONN [U1240] 	When either one of the following items is detected: <ul style="list-style-type: none"> Multifunction switch power supply and ground circuits malfunction is detected. Malfunction is detected in AV communication circuits between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> Multifunction switch power supply and ground circuits. AV communication circuits between AV control unit and multifunction switch.
U1300 U1252	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] REAR CAMERA CONN [U1252] 	Camera control unit power supply and ground circuits malfunction is detected.	Camera control unit power supply and ground circuits.
U1300 U1254	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] iPod CONN [U1254] 	When either one of the following items is detected: <ul style="list-style-type: none"> iPod adapter power supply and ground circuits malfunction is detected. Malfunction is detected in AV communication circuits between AV control unit and iPod adapter. 	<ul style="list-style-type: none"> iPod adapter power supply and ground circuits. AV communication circuits between AV control unit and iPod adapter.
U1300 U1256	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] HAND FREE CONN [U1256] 	When either one of the following items is detected: <ul style="list-style-type: none"> TEL adapter unit power supply and ground circuits malfunction is detected. Malfunction is detected in AV communication circuits between AV control unit and TEL adapter unit. 	<ul style="list-style-type: none"> TEL adapter unit power supply and ground circuits. AV communication circuits between AV control unit and TEL adapter unit.
U1300 U1252 U1256	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] REAR CAMERA CONN [U1252] HAND FREE CONN [U1256] 	Malfunction is detected in AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.	AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.
U1300 U1240 U1254 U1256	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] SWITCH CONN [U1240] iPod CONN [U1254] HAND FREE CONN [U1256] 	Malfunction is detected in AV communication circuits between AV control unit and the junction of AV control unit and multifunction switch.	AV communication circuits between AV control unit and the junction of AV control unit and multifunction switch.
U1300 U1240 U1252 U1254 U1256	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] SWITCH CONN [U1240] REAR CAMERA CONN [U1252] iPod CONN [U1254] HAND FREE CONN [U1256] 	Malfunction is detected in AV communication circuits between AV control unit and the junction of AV control unit and multifunction switch.	AV communication circuits between AV control unit and the junction of AV control unit and multifunction switch.

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AV

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

POWER SUPPLY AND GROUND CIRCUIT

AV CONTROL UNIT

AV CONTROL UNIT : Diagnosis Procedure

INFOID:000000003508684

1.CHECK FUSE

Check for blown fuses.

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

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between AV control unit harness connectors and ground.

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

Is the inspection result normal?

YES >> GO TO 3.

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

3.CHECK GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

DISPLAY UNIT

DISPLAY UNIT : Diagnosis Procedure

INFOID:000000003544762

1.CHECK POWER SUPPLY CIRCUIT (DISPLAY SIDE)

Check voltage between display unit harness connectors and ground.

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

2.CHECK POWER SUPPLY CIRCUIT (CONTINUITY)

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

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

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

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replacement of AV control unit.

4.CHECK GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

MULTIFUNCTION SWITCH

MULTIFUNCTION SWITCH : Diagnosis Procedure

INFOID:000000003544763

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Ignition switch ACC or ON	19

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Check voltage between multifunction switch harness connector and ground.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between multifunction switch and fuse.

3.CHECK GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

BOSE AMP.

BOSE AMP. : Diagnosis Procedure

INFOID:000000003508687

1.CHECK FUSE

Check for blown fuse.

Power source	Fuse No.
Battery	8

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between BOSE amp. harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	B42	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.

iPod ADAPTER

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

iPod ADAPTER : Diagnosis Procedure

INFOID:000000003508689

1.CHECK FUSE

Check for blown fuses.

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

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between iPod adapter harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	M111	5	OFF	Battery voltage
ACC power supply	M111	3	ACC	Battery voltage

Is the inspection result normal?

YES >> INSPECTION END

NO >> Check harness between iPod adapter and fuse.

SATELLITE RADIO TUNER

SATELLITE RADIO TUNER : Diagnosis Procedure

INFOID:000000003544764

1.CHECK FUSE

Check for blown fuses.

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

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between satellite radio tuner harness connector and ground.

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

Is the inspection result normal?

YES >> INSPECTION END

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

CAMERA CONTROL UNIT

CAMERA CONTROL UNIT : Diagnosis Procedure

INFOID:000000003652776

1.CHECK FUSE

Check for blown fuses.

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

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

Is inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between camera control unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	B50	32	OFF	Battery voltage
ACC power supply	B50	30	ACC	Battery voltage

Is inspection result normal?

YES >> GO TO 3.

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

3.CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B50	31	OFF	Existed

Is inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

TEL ADAPTER UNIT

TEL ADAPTER UNIT : Diagnosis Procedure

INFOID:000000003508691

1.CHECK FUSE

Check for blown fuses.

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

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between TEL adapter unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	B237	1	OFF	Battery voltage
ACC power supply	B237	2	ACC	Battery voltage
Ignition signal	B237	3	ON	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

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

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT 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, 14, 19	OFF	Existed

Is the inspection result normal?

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

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AV

RGB (R: RED) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

RGB (R: RED) SIGNAL CIRCUIT

Description

INFOID:000000003544765

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

Diagnosis Procedure

INFOID:000000003544766

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

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

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

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

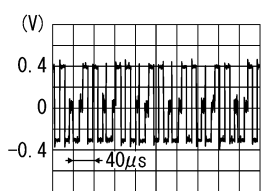
Display unit		Ground	Continuity
Connector	Terminal		
M71	17		Not existed

Is the inspection result normal?

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

2. CHECK RGB (R: RED) SIGNAL

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

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

Is the inspection result normal?

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

RGB (G: GREEN) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

RGB (G: GREEN) SIGNAL CIRCUIT

Description

INFOID:000000003544767

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

Diagnosis Procedure

INFOID:000000003544768

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

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

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

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

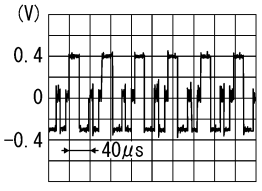
Display unit		Ground	Continuity
Connector	Terminal		
M71	6		Not existed

Is the inspection result normal?

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

2. CHECK RGB (G: GREEN) SIGNAL

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

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

Is the inspection result normal?

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

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RGB (B: BLUE) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

RGB (B: BLUE) SIGNAL CIRCUIT

Description

INFOID:000000003544769

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

Diagnosis Procedure

INFOID:000000003544770

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

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

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

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

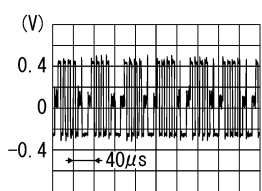
Display unit		Ground	Continuity
Connector	Terminal		
M71	18		Not existed

Is the inspection result normal?

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

2. CHECK RGB (B: BLUE) SIGNAL

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

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

Is the inspection result normal?

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

RGB SYNCHRONIZING SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

RGB SYNCHRONIZING SIGNAL CIRCUIT

Description

INFOID:000000003544771

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

Diagnosis Procedure

INFOID:000000003544772

1. CHECK CONTINUITY RGB SYNCHRONIZING SIGNAL CIRCUIT

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

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

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

Display unit		Ground	Continuity
Connector	Terminal		
M71	19		Not existed

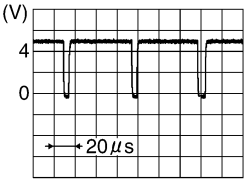
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK RGB SYNCHRONIZING SIGNAL

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

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

Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

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RGB AREA (YS) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

RGB AREA (YS) SIGNAL CIRCUIT

Description

INFOID:000000003544773

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

Diagnosis Procedure

INFOID:000000003544774

1. CHECK CONTINUITY RGB AREA (YS) SIGNAL CIRCUIT

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

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

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

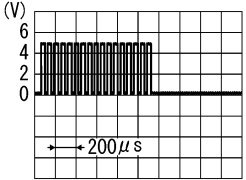
Display unit		Ground	Continuity
Connector	Terminal		
M71	9		Not existed

Is the inspection result normal?

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

2. CHECK RGB AREA (YS) SIGNAL

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

(+)		(-)	Condition	Reference value (Approx.)
Display unit				
Connector	Terminal			
M71	9	Ground	At RGB image is displayed	5.0 V
			At AUX image is displayed	

PKIB4948J

Is the inspection result normal?

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

HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

Description

INFOID:000000003544775

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

Diagnosis Procedure

INFOID:000000003544776

1. CHECK CONTINUITY HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

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

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

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

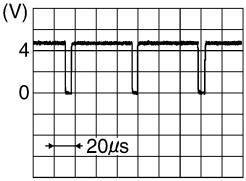
Display unit		Ground	Continuity
Connector	Terminal		
M71	8		Not existed

Is the inspection result normal?

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

2. CHECK HORIZONTAL SYNCHRONIZING (HP) SIGNAL

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

(+)		(-)	Reference value
Display unit			
Connector	Terminal		
M71	8	Ground	 <p style="text-align: right; font-size: small;">SKIB3601E</p>

Is the inspection result normal?

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

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VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

Description

INFOID:000000003544777

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

Diagnosis Procedure

INFOID:000000003544778

1. CHECK CONTINUITY VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

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

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

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

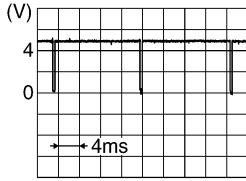
Display unit		Ground	Continuity
Connector	Terminal		
M71	20		Not existed

Is the inspection result normal?

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

2. CHECK VERTICAL SYNCHRONIZING (VP) SIGNAL

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

(+) Display unit		(-)	Reference value
Connector	Terminal		
M71	20	Ground	 SKIB3598E

Is the inspection result normal?

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

AUX IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

AUX IMAGE SIGNAL CIRCUIT

Description

INFOID:000000003544779

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

Diagnosis Procedure

INFOID:000000003544780

1. CHECK CONTINUITY AUX IMAGE SIGNAL CIRCUIT (AUX INPUT JACKS AND AV CONTROL UNIT)

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

Auxiliary input jacks		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M154	7	M84	66	Existed

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

Auxiliary input jacks		Ground	Continuity
Connector	Terminal		
M154	7		Not existed

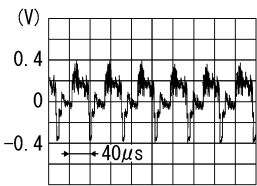
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK AUX IMAGE SIGNAL (AUX INPUT JACKS TO AV CONTROL UNIT)

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

(+)		(-)	Condition	Reference value
Connector	Terminal			
M154	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 >> GO TO 3.

NO >> Check that there is no malfunction in the external device.

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

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

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

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AUX IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

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

Display unit		Ground	Continuity
Connector	Terminal		
M71	15		Not existed

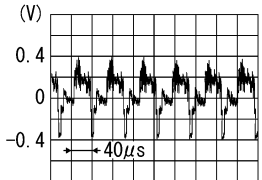
Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4. CHECK COMPOSITE IMAGE SIGNAL

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

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

Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

DISK EJECT SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

DISK EJECT SIGNAL CIRCUIT

Description

INFOID:000000003544781

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

Diagnosis Procedure

INFOID:000000003544782

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	103	Existed

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

Multifunction switch		Ground	Continuity
Connector	Terminal		
M72	14		Not existed

Is the inspection result normal?

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

2. CHECK AV CONTROL UNIT VOLTAGE

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

(+)		(-)	Reference value (Approx.)
AV control unit			
Connector	Terminal		
M85	103	Ground	3.3 V

Is the inspection result normal?

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

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REAR VIEW CAMERA IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

REAR VIEW CAMERA IMAGE SIGNAL CIRCUIT

Description

INFOID:000000003544783

- Camera control unit outputs camera ON signal to rear view camera and inputs rear view camera image signal from rear view camera when the reverse signal is input.
- The camera control unit that inputs the camera image signal transmits the camera image signal to the AV control unit.

Diagnosis Procedure

INFOID:000000003544784

1. CHECK CONTINUITY CAMERA IMAGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and rear view camera connector.
3. Check continuity between camera control unit harness connector and rear view camera harness connector.

Camera control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	
B50	6	D121	3	Existed

4. Check continuity between camera control unit harness connector and ground.

Camera control unit		Ground	Continuity
Connector	Terminal		
B50	6		Not existed

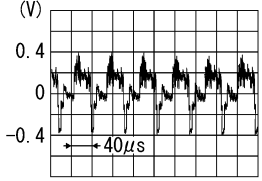
Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK CAMERA IMAGE SIGNAL

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

(+)		(-)	Condition	Reference value
Camera control unit				
Connector	Terminal			
B50	6	Ground	At rear view camera image is displayed.	 <p>SKIB2251J</p>

Is inspection result normal?

YES >> Replace camera control unit.

NO >> Replace rear view camera.

REAR VIEW CAMERA POWER SUPPLY

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

REAR VIEW CAMERA POWER SUPPLY

Description

INFOID:000000003544785

- Camera control unit outputs camera ON signal to rear view camera and inputs rear view camera image signal from rear view camera when the reverse signal is input.
- The camera control unit that inputs the camera image signal transmits the camera image signal to the AV control unit.

Diagnosis Procedure

INFOID:000000003544786

1. CHECK CONTINUITY CAMERA ON SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and rear view camera connector.
3. Check continuity between camera control unit harness connector and rear view camera harness connector.

Camera control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	
B50	8	D121	1	Existed

4. Check continuity between camera control unit harness connector and ground.

Camera control unit		Ground	Continuity
Connector	Terminal		
B50	8		Not existed

Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK VOLTAGE CAMERA ON SIGNAL

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

(+)		(-)	Condition	Reference value (Approx.)
Connector	Terminal			
B50	8	Ground	Shift position is "R"	6.0 V

Is inspection result normal?

YES >> Replace rear view camera.

NO >> Replace camera control unit.

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CAMERA IMAGE SIGNAL CIRCUIT (CAMERA CONTROL UNIT TO AV CONTROL UNIT)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

CAMERA IMAGE SIGNAL CIRCUIT (CAMERA CONTROL UNIT TO AV CONTROL UNIT)

Description

INFOID:000000003544787

- Camera control unit outputs camera ON signal to rear view camera and inputs rear view camera image signal from rear view camera when the reverse signal is input.
- The camera control unit that inputs the camera image signal transmits the camera image signal to the AV control unit.

Diagnosis Procedure

INFOID:000000003544788

1. CHECK CONTINUITY CAMERA IMAGE SIGNAL CIRCUIT (CAMERA CONTROL UNIT TO AV CONTROL UNIT)

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

Camera control unit		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
B50	12	M84	65	Existed

4. Check continuity between camera control unit harness connector and ground.

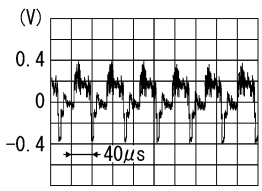
Camera control unit		Ground	Continuity
Connector	Terminal		
B50	12		Not existed

Is inspection result normal?

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

2. CHECK CAMERA IMAGE SIGNAL (CAMERA CONTROL UNIT TO AV CONTROL UNIT)

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

(+)		(-)	Condition	Reference value
Camera control unit				
Connector	Terminal			
B50	12	Ground	At rear view camera image is displayed.	 <p style="text-align: right; font-size: small;">SKIB2251J</p>

Is inspection result normal?

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

COMPOSITE IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

COMPOSITE IMAGE SIGNAL CIRCUIT

Description

INFOID:000000003544789

AV control unit that inputs the camera image signal and AUX image signal transmits the composite image signal to the display unit.

Diagnosis Procedure

INFOID:000000003544790

1. CHECK CONTINUITY COMPOSITE IMAGE SIGNAL CIRCUIT (AV CONTROL UNIT TO DISPLAY UNIT)

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

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

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

AV control unit		Ground	Continuity
Connector	Terminal		
M83	36		Not existed

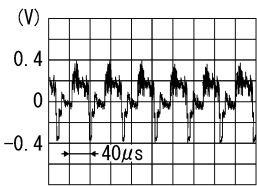
Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK COMPOSITE IMAGE SIGNAL (AV CONTROL UNIT TO DISPLAY UNIT)

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

(+)		(-)	Condition	Reference value
AV control unit				
Connector	Terminal			
M83	36	Ground	At rear view camera or AUX image is displayed.	 <p>SKIB2251J</p>

Is inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

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MICROPHONE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

MICROPHONE SIGNAL CIRCUIT

Description

INFOID:000000003508710

Supply power from TEL adapter unit to microphone. The microphone transmits the sound/voice to the microphone.

Diagnosis Procedure

INFOID:000000003508711

1.CHECK CONTINUITY BETWEEN TEL ADAPTER UNIT AND MICROPHONE CIRCUIT

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

TEL adapter unit		Microphone		Continuity
Connector	Terminals	Connector	Terminals	
B237	7	R17	1	Existed
	8		2	
	29		4	

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

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK VOLTAGE MICROPHONE VCC

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

(+)		(-)		Voltage (Approx.)
TEL adapter unit		TEL adapter unit		
Connector	Terminal	Connector	Terminal	
B237	29	B237	8	5.0 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace TEL adapter unit.

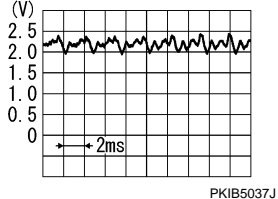
3.CHECK MICROPHONE SIGNAL

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

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

(+)		(-)		Condition	Reference value
TEL adapter unit		TEL adapter unit			
Connector	Terminal	Connector	Terminal		
B237	7	B237	8	Give a voice.	

Is the inspection result normal?

YES >> Replace TEL adapter unit.

NO >> Replace microphone.

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CONTROL SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

CONTROL SIGNAL CIRCUIT

Description

INFOID:000000003508712

TEL adapter unit identifies the vehicle model according to the control signal and performs the control.

Diagnosis Procedure

INFOID:000000003508713

1. CHECK CONTINUITY CONTROL SIGNAL CIRCUIT

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

TEL adapter unit		Ground	Continuity
Connector	Terminals		
B237	22	Ground	Existed
	23		
	24		

Is the inspection result normal?

- YES >> Replace TEL adapter unit.
NO >> Repair harness or connector.

MODE CHANGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

MODE CHANGE SIGNAL CIRCUIT

Description

INFOID:000000003508714

- AV control unit transmits the mode change signal to BOSE amp.
- Driver's Audio Stage controls the speaker's output characteristic by BOSE amp. so that the driver's seat is to be the center of sounds.

Diagnosis Procedure

INFOID:000000003508715

1. CHECK CONTINUITY MODE CHANGE SIGNAL CIRCUIT

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

BOSE amp.		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
B41	17	M82	27	Existed

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

BOSE amp.		Ground	Continuity
Connector	Terminal		
B41	17		Not existed

Is the inspection result normal?

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

2. CHECK MODE CHANGE SIGNAL

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

(+)		(-)	Reference value (Approx.)
BOSE amp.			
Connector	Terminal		
B41	17	Ground	8.5 V

Is the inspection result normal?

- YES >> Replace AV control unit.
NO >> Replace BOSE amp.

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AV

COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)

Description

INFOID:000000003544791

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

Diagnosis Procedure

INFOID:000000003544792

1. CHECK CONTINUITY COMMUNICATION SIGNAL CIRCUIT

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

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

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

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

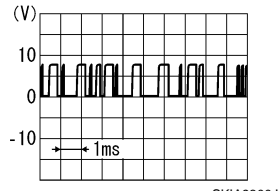
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK COMMUNICATION SIGNAL (SAT→CONT)

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace satellite radio tuner.

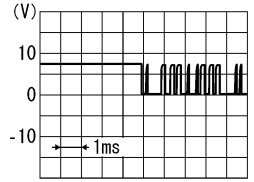
3. CHECK COMMUNICATION SIGNAL (CONT→SAT)

Check signal between satellite radio tuner harness connector and ground.

COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

(+)		(-)	Condition	Reference value
Satellite radio tuner				
Connector	Terminal			
B236	10	Ground	When satellite radio mode is selected.	 <p style="text-align: right; font-size: small;">SKIA9301J</p>

Is the inspection result normal?

YES >> Replace satellite radio tuner.

NO >> Replace AV control unit.

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REQUEST SIGNAL CIRCUIT (SAT→CONT)

[BOSE AUDIO WITHOUT NAVIGATION]

< COMPONENT DIAGNOSIS >

REQUEST SIGNAL CIRCUIT (SAT→CONT)

Description

INFOID:000000003544793

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

Diagnosis Procedure

INFOID:000000003544794

1. CHECK CONTINUITY REQUEST SIGNAL CIRCUIT

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

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

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

Satellite radio tuner		Ground	Continuity
Connector	Terminal		
B236	8		Not existed

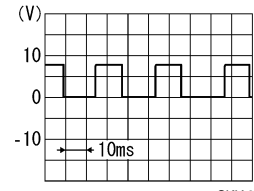
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK COMMUNICATION SIGNAL

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

(+) Satellite radio tuner		(-)	Condition	Reference value
Connector	Terminal			
B236	8	Ground	When satellite radio mode is selected.	

Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace satellite radio tuner.

STEERING ANGLE SENSOR SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

STEERING ANGLE SENSOR SIGNAL CIRCUIT

Description

INFOID:000000003544795

- Steering angle sensor signal 1, 2 detects the turning direction and quantity of the steering and transmits it to the camera control unit.
- Steering angle sensor signal 3 detects the neutral position of the steering and transmits it to the camera control unit.
- Camera control unit performs the correction of neutral position with sensor signal 1, 2, 3 and vehicle speed signal.

Diagnosis Procedure

INFOID:000000003544796

1.CHECK CONTINUITY STEERING ANGLE SENSOR SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and steering angle sensor connector.
3. Check continuity between camera control unit harness connector and steering angle sensor harness connector.

Camera control unit		Steering angle sensor		Continuity
Connector	Terminals	Connector	Terminals	
B50	23	M37	3	Existed
	24		4	
	25		5	

4. Check continuity between camera control unit harness connector and ground.

Camera control unit		Ground	Continuity
Connector	Terminals		
B50	23	Ground	Not existed
	24		
	25		

Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK VOLTAGE CAMERA CONTROL UNIT

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

(+)		(-)	Reference value (Approx.)
Connector	Terminals		
B50	23	Ground	5.0 V
	24		
	25		

Is inspection result normal?

YES >> GO TO 3.

NO >> Replace camera control unit.

3.CHECK STEERING ANGLE SENSOR SIGNAL

1. Turn ignition switch OFF.
2. Connect steering angle sensor connector.

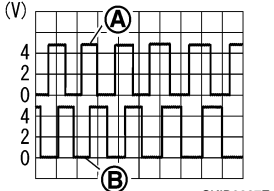
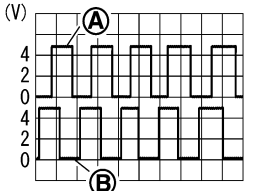
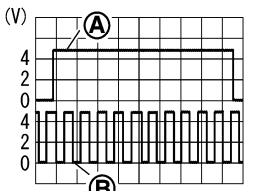
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STEERING ANGLE SENSOR SIGNAL CIRCUIT

[BOSE AUDIO WITHOUT NAVIGATION]

< COMPONENT DIAGNOSIS >

3. Turn ignition switch ON.
4. Check signal between camera control unit harness connector and ground.

(+)		(-)	Condition	Reference value
Camera control unit				
Connector	Terminals			
B50	23, 24	Ground	Turn the steering to the right	 <p style="font-size: small;">(V) 4 2 0 4 2 0 0</p> <p style="font-size: x-small; text-align: right;">SKIB3827E</p> <p>A: Sensor signal 1 B: Sensor signal 2</p>
			Turn the steering to the left	 <p style="font-size: small;">(V) 4 2 0 4 2 0 0</p> <p style="font-size: x-small; text-align: right;">SKIB3828E</p> <p>A: Sensor signal 1 B: Sensor signal 2</p>
	25	Ground	Turn the steering around the neutral position	 <p style="font-size: small;">(V) 4 2 0 4 2 0 0</p> <p style="font-size: x-small; text-align: right;">SKIB3829E</p> <p>A: Sensor signal 3 B: Sensor signal 1</p>

Is inspection result normal?

- YES >> INSPECTION END
 NO >> Replace steering angle sensor.

STEERING SWITCH SIGNAL A CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

STEERING SWITCH SIGNAL A CIRCUIT

Description

INFOID:000000003544797

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:000000003544798

1. CHECK STEERING SWITCH SIGNAL A CIRCUIT

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

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

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

AV control unit		Ground	Continuity
Connector	Terminal		
M81	6		Not existed

Is the inspection result normal?

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

2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

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

3. CHECK AV CONTROL UNIT VOLTAGE

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

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

Is the inspection result normal?

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

4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-248. "Component Inspection"](#).

Is the inspection result normal?

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

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AV

STEERING SWITCH SIGNAL A CIRCUIT

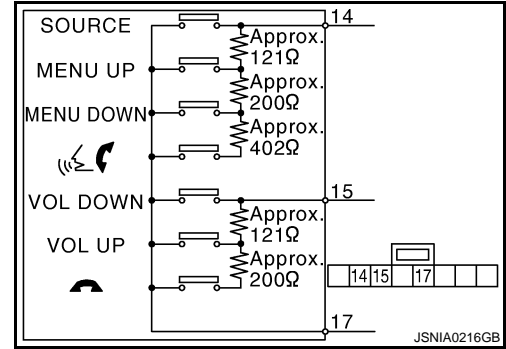
< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Component Inspection

INFOID:000000003508722

Measure the resistance between the steering switch connector.



Steering switch		Steering switch		Condition	Resistance value (Ω)
Connector	Terminal	Connector	Terminal		
M303	14	M303	17	SOURCE switch ON	0
				MENU UP switch ON	120 – 122
				MENU DOWN switch ON	318 – 324
				mute switch ON	716 – 730
	15			VOL DOWN switch ON	0
				VOL UP switch ON	120 – 122
				mute switch ON	318 – 324

STEERING SWITCH SIGNAL B CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

STEERING SWITCH SIGNAL B CIRCUIT

Description

INFOID:000000003544799

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:000000003544800

1. CHECK STEERING SWITCH SIGNAL B CIRCUIT

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

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

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

AV control unit		Ground	Continuity
Connector	Terminal		
M81	16		Not existed

Is the inspection result normal?

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

2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

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

3. CHECK AV CONTROL UNIT VOLTAGE

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

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

Is the inspection result normal?

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

4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-250, "Component Inspection"](#).

Is the inspection result normal?

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

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AV

STEERING SWITCH SIGNAL B CIRCUIT

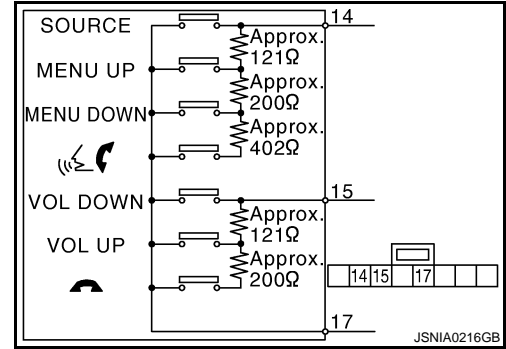
< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

INFOID:000000003756525

Component Inspection

Measure the resistance between the steering switch connector.



Steering switch		Steering switch		Condition	Resistance value (Ω)
Connector	Terminal	Connector	Terminal		
M303	14	M303	17	SOURCE switch ON	0
				MENU UP switch ON	120 – 122
				MENU DOWN switch ON	318 – 324
				mute switch ON	716 – 730
	15			VOL DOWN switch ON	0
				VOL UP switch ON	120 – 122
				mute switch ON	318 – 324

STEERING SWITCH SIGNAL GND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

STEERING SWITCH SIGNAL GND CIRCUIT

Description

INFOID:000000003544801

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:000000003544802

1.CHECK STEERING SWITCH SIGNAL GND CIRCUIT

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

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

3. Connect AV control unit connector.

Is the inspection result normal?

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

2.CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

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

3.CHECK GROUND CIRCUIT

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

AV control unit		Ground	Continuity
Connector	Terminal		
M81	15		Not existed

Is the inspection result normal?

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

4.CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-252, "Component Inspection"](#).

Is the inspection result normal?

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

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STEERING SWITCH SIGNAL GND CIRCUIT

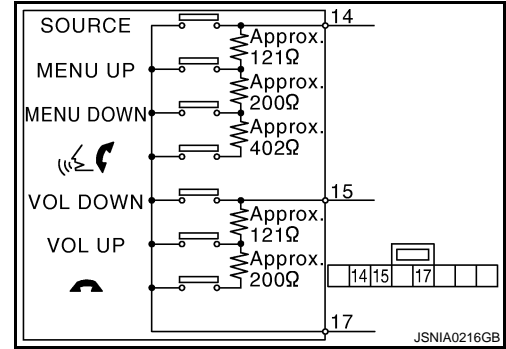
[BOSE AUDIO WITHOUT NAVIGATION]

< COMPONENT DIAGNOSIS >

INFOID:000000003756526

Component Inspection

Measure the resistance between the steering switch connector.



Steering switch		Steering switch		Condition	Resistance value (Ω)
Connector	Terminal	Connector	Terminal		
M303	14	M303	17	SOURCE switch ON	0
				MENU UP switch ON	120 – 122
				MENU DOWN switch ON	318 – 324
				mute switch ON	716 – 730
	15			VOL DOWN switch ON	0
				VOL UP switch ON	120 – 122
				mute switch ON	318 – 324

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

ECU DIAGNOSIS

AV CONTROL UNIT

Reference Value

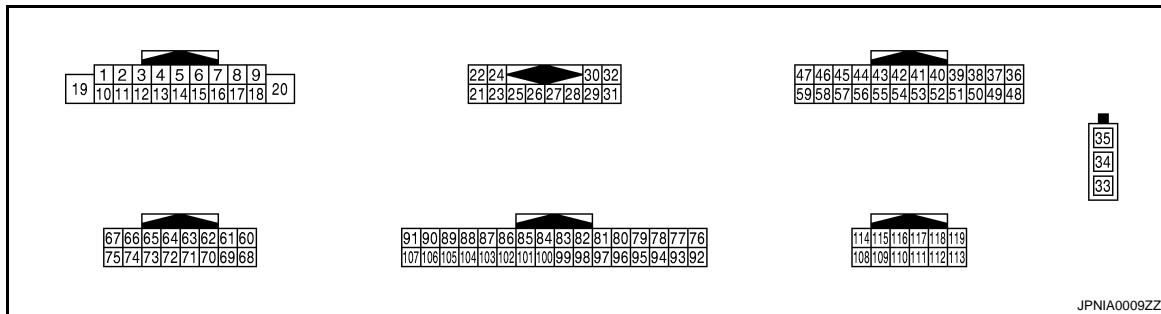
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values on the diagnosis tool

consult-III monitor item

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.	Changes in indication may be delayed. This is normal.
	Off	Parking brake is released.	
ILLUM SIG	On	Light switch ON	—
	Off	Light switch OFF	
IGN SIG	On	Ignition switch ON	—
	Off	Ignition switch in ACC position	
REV SIG	On	Shift the selector lever to "R" position	Changes in indication may be delayed. This is normal.
	Off	Shift the selector lever other than "R" position	

TERMINAL LAYOUT




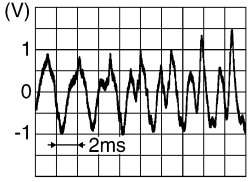
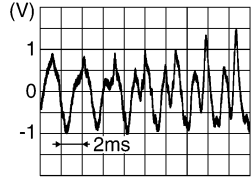
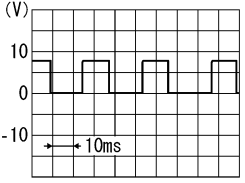
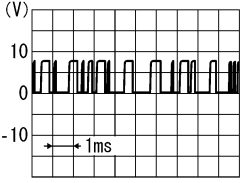
PHYSICAL VALUES

Terminal (Wire color)		Description		Condition	Reference value (Approx.)	
+	-	Signal name	Input/Output			
6 (P)	15 (B)	Steering switch signal A	Input	Ignition switch ON	Keep pressing SOURCE switch.	0 V
				Keep pressing Δ switch.	0.7 V	
				Keep pressing ∇ switch.	1.3 V	
				Keep pressing ⚡ switch.	2.0 V	
				Except for above.	3.3 V	
7 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
9 (R)	Ground	Illumination signal	Input	OFF	Lighting switch is OFF.	0 V
					Lighting switch is ON.	12.0 V

AV CONTROL UNIT

< ECU DIAGNOSIS >

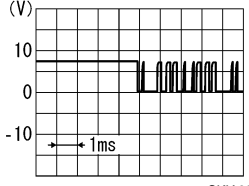
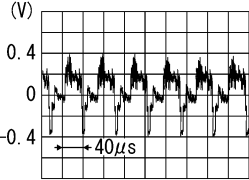
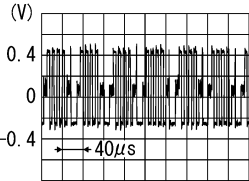
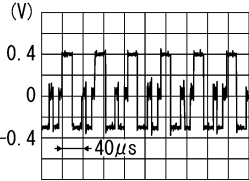
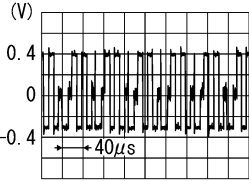
[BOSE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
15 (B)	Ground	Steering switch signal Ground	—	Ignition switch ON	—	0 V
16 (L)	15 (B)	Steering switch signal B	Input	Ignition switch ON	Keep pressing VOL DOWN switch.	0 V
					Keep pressing VOL UP switch.	0.7 V
					Keep pressing  switch.	1.3 V
					Except for above.	3.3 V
19 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
20 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
22 (B)	21 (W)	Satellite radio sound signal LH	Input	Ignition switch ON	When satellite radio mode is selected.	 <small>SKIB3609E</small>
24 (G)	23 (R)	Satellite radio sound signal RH	Input	Ignition switch ON	When satellite radio mode is selected.	 <small>SKIB3609E</small>
25	—	Shield	—	—	—	—
26	—	Shield	—	—	—	—
27 (SB)	Ground	Mode change signal	Output	Ignition switch ON	Driver's Audio Stage ON	0 V
					Driver's Audio Stage OFF	8.5 V
28 (W)	Ground	Request signal (SAT→CONT)	Input	Ignition switch ON	When satellite radio mode is selected.	 <small>SKIA9299J</small>
29 (B)	Ground	Communication signal (SAT→CONT)	Input	Ignition switch ON	When satellite radio mode is selected.	 <small>SKIA9300J</small>

AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

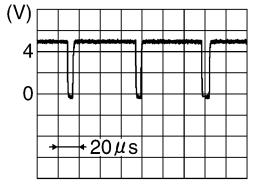
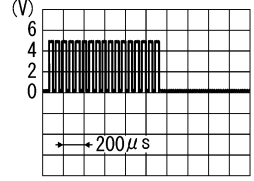
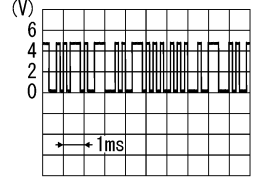
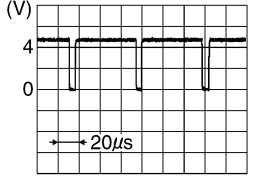
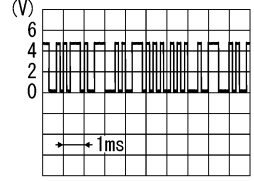
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
30 (R)	Ground	Communication signal (CONT→SAT)	Output	Ignition switch ON	When satellite radio mode is selected.	
33	—	FM sub	Input	—	—	—
34	—	AM-FM main	Input	—	—	—
35	Ground	Antenna amp. ON signal	Output	Ignition switch ACC	—	12.0 V
36 (SB)	Ground	Composite image signal	Output	Ignition switch ON	At AUX image display	
37 (V)	Ground	Composite image ground	—	Ignition switch ON	—	0 V
38 (P)	Ground	RGB signal (B: blue)	Output	Ignition switch ON	Start confirmation/adjust- ment mode, and then dis- play color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	
39 (L)	Ground	RGB signal (G: green)	Output	Ignition switch ON	Start confirmation/adjust- ment mode, and then dis- play color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	
40 (G)	Ground	RGB signal (R: red)	Output	Ignition switch ON	Start confirmation/adjust- ment mode, and then dis- play color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	

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AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

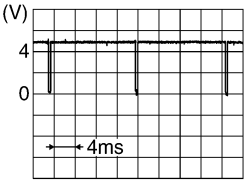
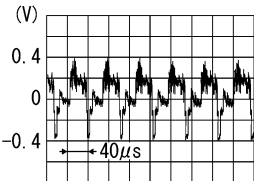
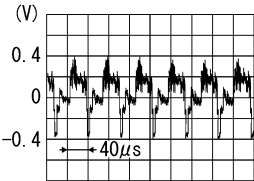

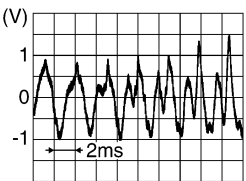
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Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
41 (W)	Ground	RGB synchronizing signal	Output	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">SKIB3603E</p>
42	—	Shield	—	—	—	—
43 (B)	Ground	RGB area (YS) signal	Output	Ignition switch ON	At RGB image display	5.0 V
					At AUX image display	 <p style="text-align: right; font-size: small;">PKIB4948J</p>
44 (BR)	Ground	Communication signal (DISP→CONT)	Input	Ignition switch ON	When adjusting display brightness.	 <p style="text-align: right; font-size: small;">PKIB5039J</p>
45 (R)	Ground	Horizontal synchronizing (HP) signal	Input	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">SKIB3601E</p>
46 (LG)	Ground	Signal ground	—	Ignition switch ON	—	0 V
47 (O)	Ground	Signal VCC	Output	Ignition switch ACC	—	9.0 V
49	—	Shield	—	—	—	—
50	—	Shield	—	—	—	—
55	—	Shield	—	—	—	—
56 (Y)	Ground	Communication signal (CONT→DISP)	Output	Ignition switch ON	When adjusting display brightness.	 <p style="text-align: right; font-size: small;">PKIB5039J</p>

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
57 (G)	Ground	Vertical synchronizing (VP) signal	Input	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">SKIB3598E</p>
58 (BR)	Ground	Inverter ground	—	Ignition switch ON	—	0 V
59 (Y)	Ground	Inverter VCC	Output	Ignition switch ACC	—	9.0 V
64	—	Shield	—	—	—	—
65 (W)	Ground	Camera image signal	Input	Ignition switch ON	At rear view camera image display	 <p style="text-align: right; font-size: small;">SKIB2251J</p>
66 (G)	Ground	AUX image signal	Input	Ignition switch ON	At AUX image display	 <p style="text-align: right; font-size: small;">SKIB2251J</p>
68 (W)	Ground	Camera-connection recognition signal	—	Ignition switch ON	Connected to camera control unit connector	0 V
					Not connected to camera control unit connector	5.0 V
73	—	Shield	—	—	—	—
74 (R)	Ground	AUX image signal ground	—	Ignition switch ON	—	0 V
80 (L)	79 (P)	TEL voice signal	Input	Ignition switch ON	During voice guide output with the  switch pressed	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
81	—	Shield	—	—	—	—

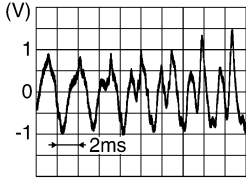
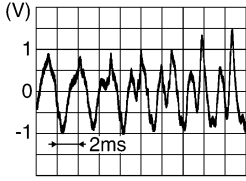
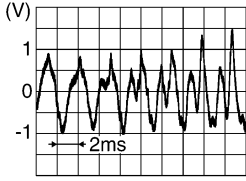
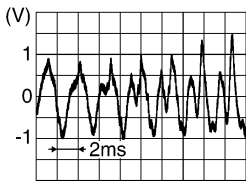
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AV CONTROL UNIT

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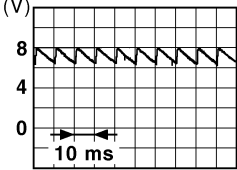
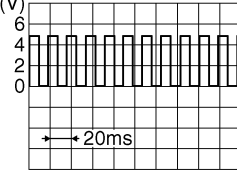
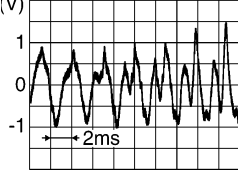
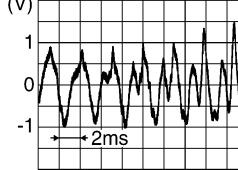
[BOSE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
83 (B)	82 (G)	iPod sound signal RH	Input	Ignition switch ON	When iPod mode is select- ed	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
85 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
86 (L)	—	CAN-H	Input/ Output	—	—	—
87 (P)	—	CAN-L	Input/ Output	—	—	—
88 (LG)	—	AV communication signal (H)	Input/ Output	—	—	—
89 (V)	—	AV communication signal (L)	Input/ Output	—	—	—
90 (L) ^{*1} (G) ^{*2}	—	AV communication signal (H)	Input/ Output	—	—	—
91 (P) ^{*1} (R) ^{*2}	—	AV communication signal (L)	Input/ Output	—	—	—
95 (B)	Ground	AUX sound signal RH	Input	Ignition switch ON	When AUX mode is select- ed	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
96 (R)	Ground	AUX sound signal LH	Input	Ignition switch ON	When AUX mode is select- ed	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
97 (W)	—	AUX sound signal ground	—	—	—	—
99 (R)	98 (W)	iPod sound signal LH	Input	Ignition switch ON	When iPod mode is select- ed	 <p style="text-align: right; font-size: small;">SKIB3609E</p>

AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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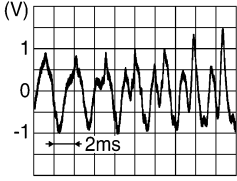
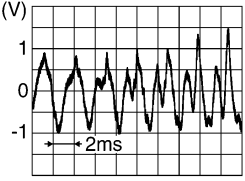
Terminal (Wire color)		Description		Condition	Reference value (Approx.)
+	-	Signal name	Input/ Output		
101 (BR)	Ground	SW ground	—	Ignition switch ON	— 0 V
103 (SB)	Ground	Disk eject signal	Input	—	Pressing the eject switch 0 V
					Except for above 3.3 V
104 (G)	Ground	Ignition signal	Input	Ignition switch ON	— Battery voltage
105 (O)	Ground	Reverse signal	Input	Ignition switch ON	R position 12.0 V
					Other than R position 0 V
106 (V)	Ground	Parking brake signal	Input	Ignition switch ON	Parking brake ON 0 V
					Parking brake OFF  10 ms
<small>JSNIA0007GB</small>					
107 (R)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is ap- prox. 40 km/h (25 MPH)  20ms
<small>NOTE: Maximum voltage may be 12 V due to specifications (connected units).</small>					
<small>SKIA6649J</small>					
108 (BR)	114 (Y)	Sound signal rear RH	Output	Ignition switch ON	Audio output  2ms
<small>SKIB3609E</small>					
109 (R)	115 (G)	Sound signal front RH	Output	Ignition switch ON	Audio output  2ms
<small>SKIB3609E</small>					
110 (V)	Ground	Amp. ON signal	Output	Ignition switch ON	— 10.0 V
111	—	Shield	—	—	—

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[BOSE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
112 (V)	118 (SB)	Sound signal rear LH	Output	Ignition switch ON	Audio output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
113 (P)	119 (L)	Sound signal front LH	Output	Ignition switch ON	Audio output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>

NOTE:

*1: Without rear view monitor.

*2: With rear view monitor.

Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

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Click here to view the eWD.

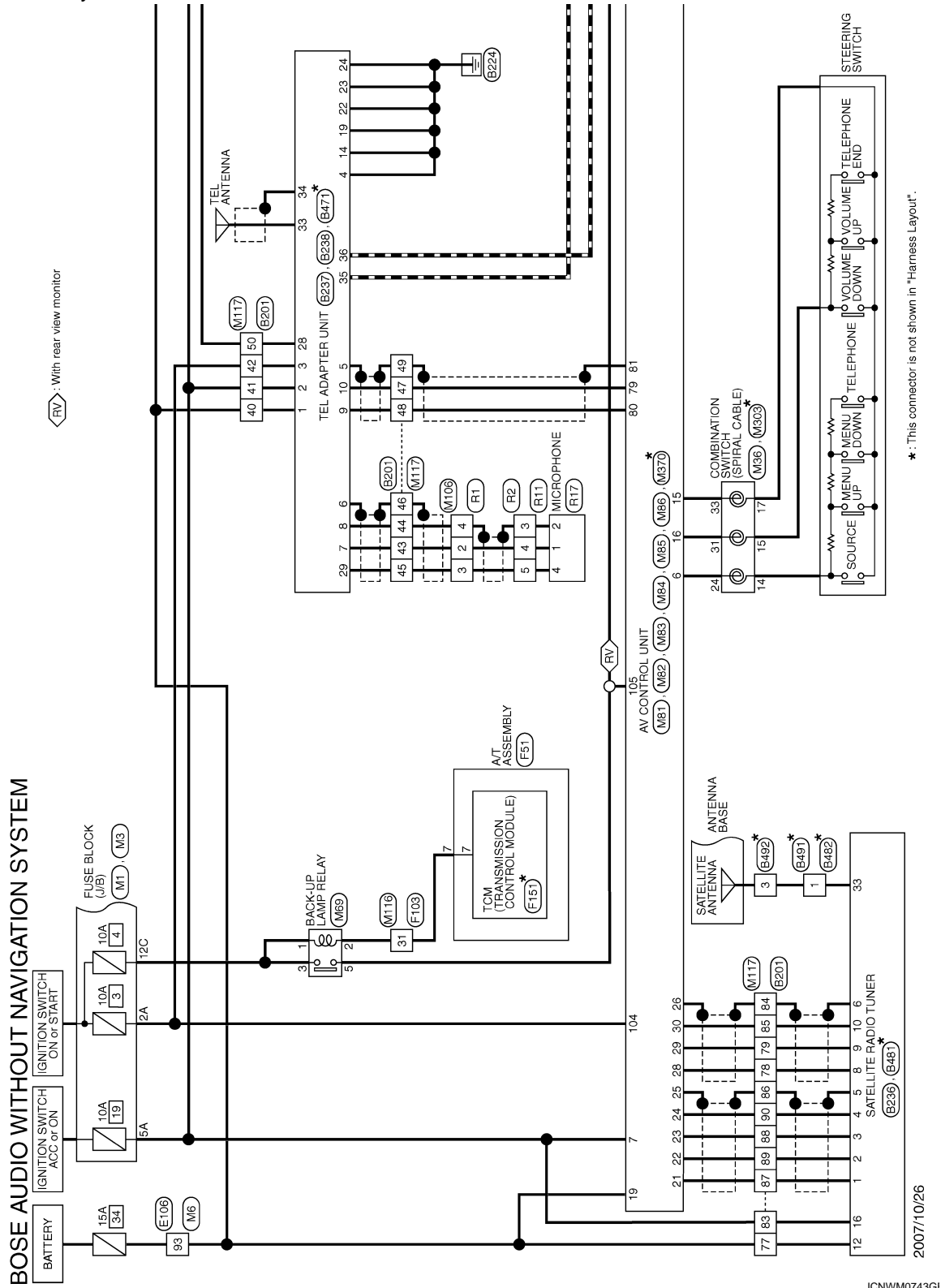
NOTE:

AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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



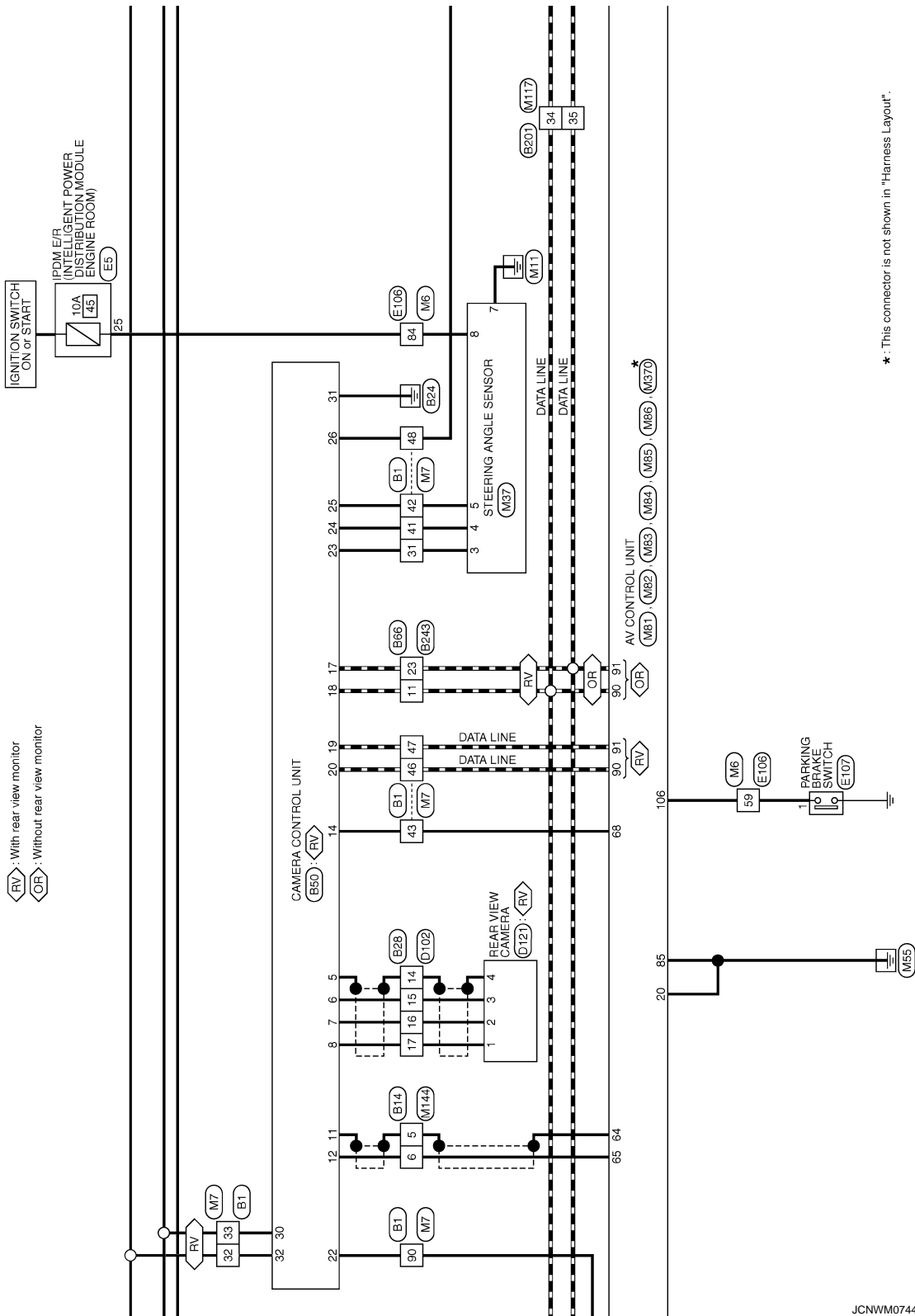
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[BOSE AUDIO WITHOUT NAVIGATION]

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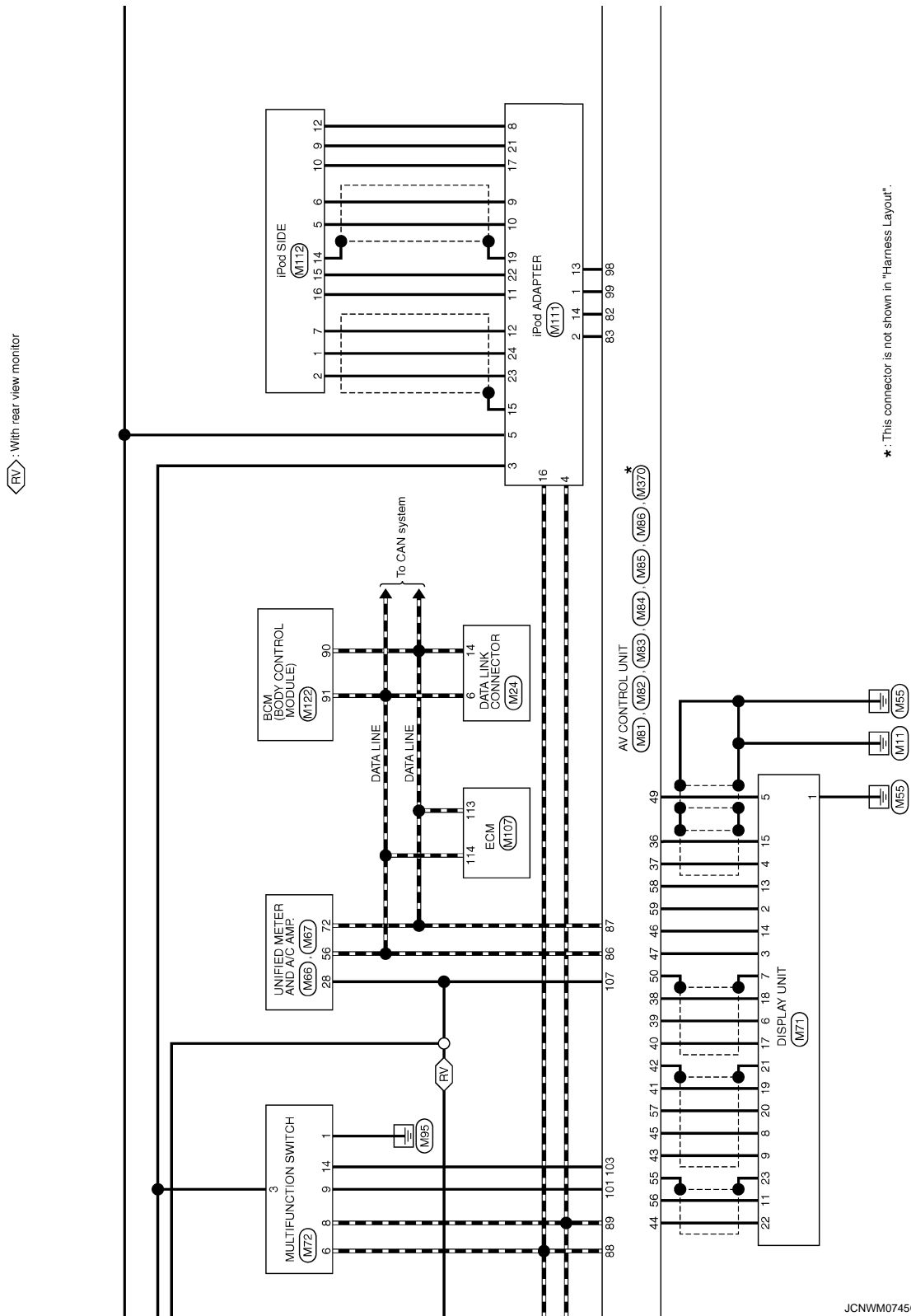


JCNWM0744GI

AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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JCNWM0745GI

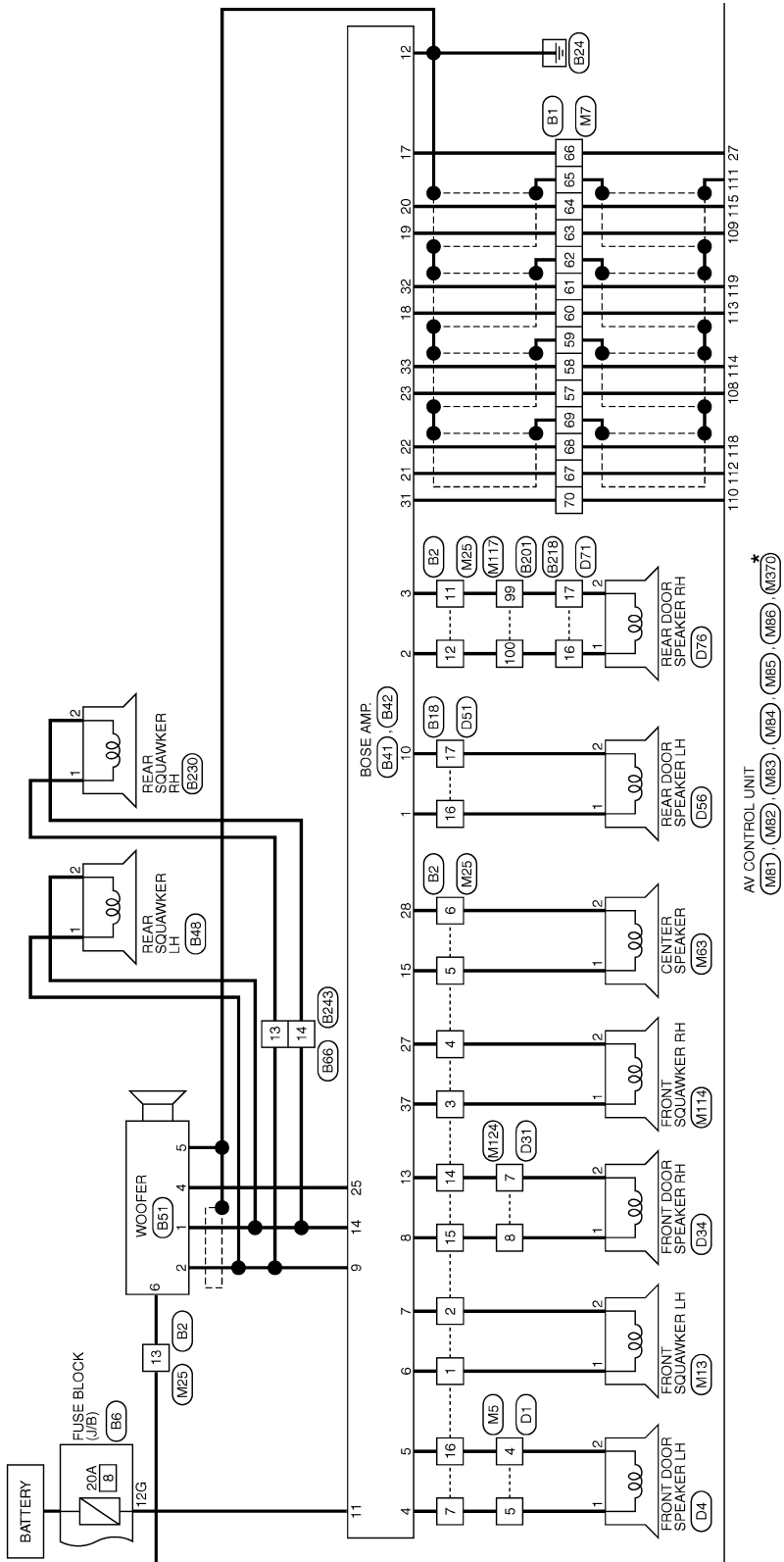
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[BOSE AUDIO WITHOUT NAVIGATION]

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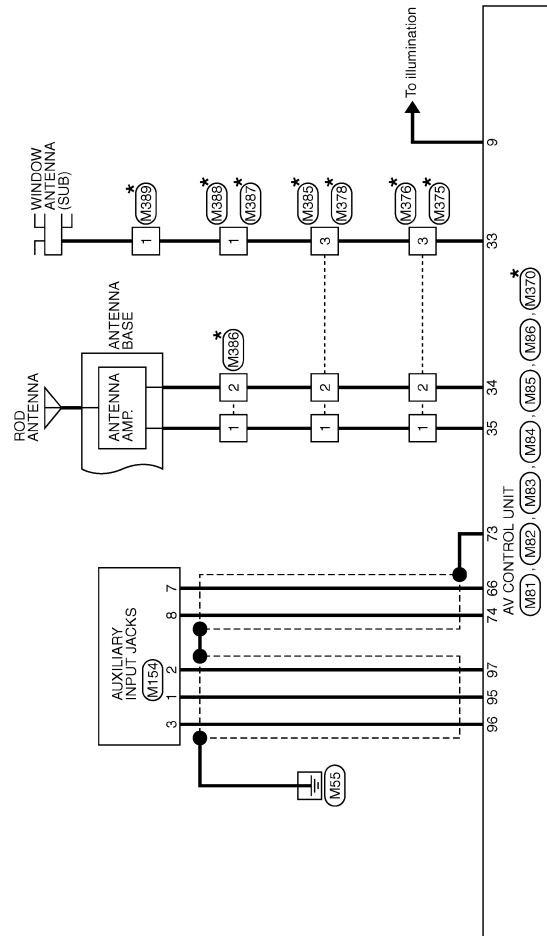
*: This connector is not shown in "Harness Layout".

JCNWM0746G1

AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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

JCNWM0747GI

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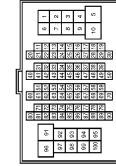
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[BOSE AUDIO WITHOUT NAVIGATION]

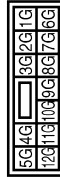
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	L	-
33	LG	-
41	BR	-
42	R	-
43	W	-
45	L	[With BOSE audio without NAV]
47	P	[With BOSE audio without NAV]
48	V	-
57	BR	-
58	Y	-

Connector No.	B8
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12G	GR	-

59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
90	O	-



Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
6	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

15	LG	-
16	P	-

Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MY-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	W	- [Without around view monitor]
16	B	- [Without around view monitor]
17	R	- [Without around view monitor]

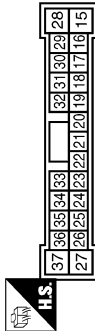
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[BOSE AUDIO WITHOUT NAVIGATION]

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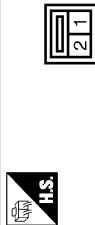
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA1PFR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (+)
17	O	MODE CHANGE SIGNAL
18	P	SOUND SIGNAL FRONT LH (+)
19	R	SOUND SIGNAL FRONT RH (+)
20	G	SOUND SIGNAL FRONT LH (-)
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	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (-)

Connector No.	B48
Connector Name	REAR SQUAWKER LH
Connector Type	TK02FBR



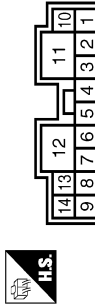
31	W	AMP. ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	BR	SOUND SIGNAL FRONT SQUAWKER RH (+)



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (-)
3	V	SOUND SIGNAL REAR DOOR RH (+)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
8	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL WOOFER (+)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

22	O	REVERSE
23	L	SENSOR SIGNAL 1
24	BR	SENSOR SIGNAL 2
25	R	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	L	BATTERY

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SCA1PFR-SJA2



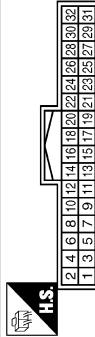
Connector No.	B51
Connector Name	WOOFER
Connector Type	RS08FGY-PR



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	W	CAMERA IMAGE SIGNAL
7	B	CAMERA GND
8	R	CAMERA POWER SUPPLY
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
14	W	CONNECTION RECOGNITION
17	R	AV COMM. (L) (With BOSE audio without NAVI)
18	G	AV COMM. (H) (With BOSE audio without NAVI)
19	P	AV COMM. (L) (With BOSE audio without NAVI)
20	L	AV COMM. (H) (With BOSE audio without NAVI)

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	W	BATTERY

Connector No.	B50
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH43FW-NH



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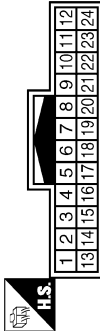
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[BOSE AUDIO WITHOUT NAVIGATION]

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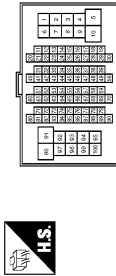
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
11	G	
13	L	
14	W	
23	R	

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH82FW-CS16-TM4



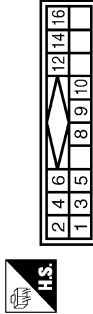
Terminal No.	Color of Wire	Signal Name [Specification]
34	G	
35	R	
40	Y	
41	LG	
42	W	
43	B	
44	R	
45	W	
46	SHIELD	
47	G	
48	Y	

Connector No.	B230
Connector Name	REAR SOUAWKER RH
Connector Type	TK02FBR



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

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

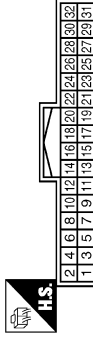


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	SOUND SIGNAL LH (-)
2	R	SOUND SIGNAL LH (+)
3	W	SOUND SIGNAL RH (-)
4	B	SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD
8	L	REQUEST (SAT->CONT)
9	P	COMM (SAT->CONT)
10	G	COMM (CONT->SAT)
12	Y	BATTERY
16	Y	ACC

49	SHIELD	
50	P	
77	Y	
78	L	
79	G	
83	V	
84	SHIELD	
85	P	
86	SHIELD	
87	G	
88	W	
89	R	
90	B	
99	O	- [With BOSE audio]
100	L	

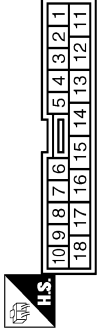
Terminal No.	Color of Wire	Signal Name [Specification]
16	L	
17	O	- [With BOSE audio]

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	BATTERY
2	LG	ACC
3	W	IGNITION
4	B	GND
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	B	MICROPHONE SIGNAL
8	R	MICROPHONE GND
9	Y	TEL VOICE SIGNAL (+)
10	G	TEL VOICE SIGNAL (-)
14	B	GND

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


















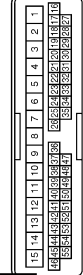
19	B	GND
22	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
28	P	VEHICLE SPEED (8-PULSE)
29	W	MICROPHONE VCC

AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

<table border="1"> <tr><td>Connector No.</td><td>B238</td></tr> <tr><td>Connector Name</td><td>TEL ADAPTER UNIT</td></tr> <tr><td>Connector Type</td><td>TH8BFV-IN1</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>35</td><td>L</td><td>AV COMM (H)</td></tr> <tr><td>36</td><td>P</td><td>AV COMM (L)</td></tr> </table>	Connector No.	B238	Connector Name	TEL ADAPTER UNIT	Connector Type	TH8BFV-IN1	Terminal No.	Color of Wire	Signal Name [Specification]	35	L	AV COMM (H)	36	P	AV COMM (L)	<table border="1"> <tr><td>Connector No.</td><td>B243</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH24FV-NH</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>11</td><td>L</td><td>-</td></tr> <tr><td>13</td><td>L</td><td>-</td></tr> <tr><td>14</td><td>W</td><td>-</td></tr> <tr><td>23</td><td>P</td><td>-</td></tr> </table>	Connector No.	B243	Connector Name	WIRE TO WIRE	Connector Type	TH24FV-NH	Terminal No.	Color of Wire	Signal Name [Specification]	11	L	-	13	L	-	14	W	-	23	P	-	<table border="1"> <tr><td>Connector No.</td><td>B471</td></tr> <tr><td>Connector Name</td><td>TEL ADAPTER UNIT</td></tr> <tr><td>Connector Type</td><td>GT16C-1S-HU</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>33</td><td>-</td><td>TEL ANTENNA</td></tr> <tr><td>34</td><td>SHIELD</td><td>SHIELD</td></tr> </table>	Connector No.	B471	Connector Name	TEL ADAPTER UNIT	Connector Type	GT16C-1S-HU	Terminal No.	Color of Wire	Signal Name [Specification]	33	-	TEL ANTENNA	34	SHIELD	SHIELD	<table border="1"> <tr><td>Connector No.</td><td>B481</td></tr> <tr><td>Connector Name</td><td>SATELLITE RADIO TUNER</td></tr> <tr><td>Connector Type</td><td>FAKSA</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>33</td><td>-</td><td>SATELLITE ANTENNA</td></tr> </table>	Connector No.	B481	Connector Name	SATELLITE RADIO TUNER	Connector Type	FAKSA	Terminal No.	Color of Wire	Signal Name [Specification]	33	-	SATELLITE ANTENNA	<table border="1"> <tr><td>Connector No.</td><td>B482</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>GT16C-1PP-HU</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>-</td><td>-</td></tr> <tr><td>2</td><td>-</td><td>-</td></tr> </table>	Connector No.	B482	Connector Name	WIRE TO WIRE	Connector Type	GT16C-1PP-HU	Terminal No.	Color of Wire	Signal Name [Specification]	1	-	-	2	-	-	<table border="1"> <tr><td>Connector No.</td><td>B491</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>GT16C-1PP-HU</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>-</td><td>-</td></tr> <tr><td>2</td><td>-</td><td>-</td></tr> </table>	Connector No.	B491	Connector Name	WIRE TO WIRE	Connector Type	GT16C-1PP-HU	Terminal No.	Color of Wire	Signal Name [Specification]	1	-	-	2	-	-	<table border="1"> <tr><td>Connector No.</td><td>B482</td></tr> <tr><td>Connector Name</td><td>ANTENNA BASE</td></tr> <tr><td>Connector Type</td><td>GT16C-1PP-HU</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>3</td><td>-</td><td>SAETLLITE ANTENNA</td></tr> </table>	Connector No.	B482	Connector Name	ANTENNA BASE	Connector Type	GT16C-1PP-HU	Terminal No.	Color of Wire	Signal Name [Specification]	3	-	SAETLLITE ANTENNA	<table border="1"> <tr><td>Connector No.</td><td>D1</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH4DFW-CS15</td></tr> </table>   <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>4</td><td>W</td><td>-</td></tr> <tr><td>5</td><td>L</td><td>-</td></tr> </table>	Connector No.	D1	Connector Name	WIRE TO WIRE	Connector Type	TH4DFW-CS15	Terminal No.	Color of Wire	Signal Name [Specification]	4	W	-	5	L	-
Connector No.	B238																																																																																																																														
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AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	D4	Connector No.	D34	Connector No.	D31	Connector No.	D51
Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)	WIRE TO WIRE	WIRE TO WIRE	WIRE TO WIRE	WIRE TO WIRE
Connector Type	NS02FBR-CS	NS02FBR-CS	NS02FBR-CS	TK10MW-NSB	TK10MW-NSB	TK10MW-NSB	TK10MW-NSB
 		 		 		 	
Terminal No.	1	2	1	2	1	2	16
Color of Wire	L	W	BR	R	BR	R	Y
Signal Name [Specification]	-	-	-	-	-	-	- [With BOSE audio]
Terminal No.	2	1	2	1	7	8	17
Color of Wire	L	W	BR	R	R	BR	G
Signal Name [Specification]	-	-	-	-	-	-	- [With BOSE audio]

Connector No.	D56	Connector No.	D76	Connector No.	D71	Connector No.	D102
Connector Name	REAR DOOR SPEAKER LH	REAR DOOR SPEAKER RH	REAR DOOR SPEAKER RH	WIRE TO WIRE	WIRE TO WIRE	WIRE TO WIRE	WIRE TO WIRE
Connector Type	NS02FBR-CS	NS02FBR-CS	NS02FBR-CS	TK10MW-NSB	TK10MW-NSB	TK10MW-NSB	TK124FW-NH
 		 		 		 	
Terminal No.	1	2	1	2	16	17	12
Color of Wire	Y	G	L	L	L	L	SHIELD
Signal Name [Specification]	-	-	-	-	-	-	- [Without around view monitor]
Terminal No.	2	1	2	1	16	17	14
Color of Wire	G	Y	L	L	L	L	Y
Signal Name [Specification]	-	-	-	-	-	-	- [Without around view monitor]



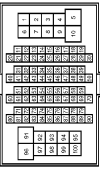
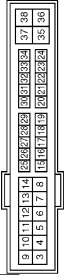
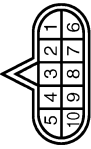
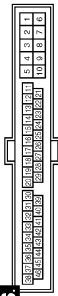


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AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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Connector No.	D121																													
Connector Name	REAR VIEW CAMERA																													
Connector Type	TH8AWV-NH																													
Terminal No.	1																													
Color of Wire	G																													
Signal Name [Specification]	CAMERA POWER SUPPLY																													
Terminal No.	2																													
Color of Wire	L																													
Signal Name [Specification]	CAMERA GND																													
Terminal No.	3																													
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Signal Name [Specification]	CAMERA IMAGE SIGNAL																													
Terminal No.	4																													
Color of Wire	SHIELD	SHIELD																												
<table border="1"> <tr><td>Connector No.</td><td>E107</td></tr> <tr><td>Connector Name</td><td>PARKING BRAKE SWITCH</td></tr> <tr><td>Connector Type</td><td>TE01PW</td></tr> </table> 	Connector No.	E107	Connector Name	PARKING BRAKE SWITCH	Connector Type	TE01PW	<table border="1"> <tr><td>Terminal No.</td><td>1</td></tr> <tr><td>Color of Wire</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	1	Color of Wire	O	Signal Name [Specification]																		
Connector No.	E107																													
Connector Name	PARKING BRAKE SWITCH																													
Connector Type	TE01PW																													
Terminal No.	1																													
Color of Wire	O																													
Signal Name [Specification]																														
<table border="1"> <tr><td>Connector No.</td><td>E106</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH8BFW-CS16-TM4</td></tr> </table> 	Connector No.	E106	Connector Name	WIRE TO WIRE	Connector Type	TH8BFW-CS16-TM4	<table border="1"> <tr><td>Terminal No.</td><td>59</td></tr> <tr><td>Color of Wire</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> <tr><td>Terminal No.</td><td>84</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> <tr><td>Terminal No.</td><td>83</td></tr> <tr><td>Color of Wire</td><td>Y</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	59	Color of Wire	O	Signal Name [Specification]		Terminal No.	84	Color of Wire	G	Signal Name [Specification]		Terminal No.	83	Color of Wire	Y	Signal Name [Specification]						
Connector No.	E106																													
Connector Name	WIRE TO WIRE																													
Connector Type	TH8BFW-CS16-TM4																													
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Color of Wire	G																													
Signal Name [Specification]																														
Terminal No.	83																													
Color of Wire	Y																													
Signal Name [Specification]																														
<table border="1"> <tr><td>Connector No.</td><td>E103</td></tr> <tr><td>Connector Name</td><td>IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)</td></tr> <tr><td>Connector Type</td><td>TH2BFW-CS12-M4-1V</td></tr> </table> 	Connector No.	E103	Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Type	TH2BFW-CS12-M4-1V	<table border="1"> <tr><td>Terminal No.</td><td>25</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	25	Color of Wire	G	Signal Name [Specification]																		
Connector No.	E103																													
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Color of Wire	G																													
Signal Name [Specification]																														
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Connector No.	F101																													
Connector Name	A/T ASSEMBLY																													
Connector Type	RK10FG-DGY																													
Terminal No.	7																													
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Signal Name [Specification]																														
<table border="1"> <tr><td>Connector No.</td><td>F102</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TK3BFW-NS10</td></tr> </table> 	Connector No.	F102	Connector Name	WIRE TO WIRE	Connector Type	TK3BFW-NS10	<table border="1"> <tr><td>Terminal No.</td><td>31</td></tr> <tr><td>Color of Wire</td><td>R</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	31	Color of Wire	R	Signal Name [Specification]																		
Connector No.	F102																													
Connector Name	WIRE TO WIRE																													
Connector Type	TK3BFW-NS10																													
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Signal Name [Specification]																														
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Connector Name	TCM (TRANSMISSION CONTROL MODULE)																													
Connector Type	SP10FBGY																													
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Color of Wire	O																													
Signal Name [Specification]	REV LAMP RLY																													
<table border="1"> <tr><td>Connector No.</td><td>M1</td></tr> <tr><td>Connector Name</td><td>FUSE BLOK (J/B)</td></tr> <tr><td>Connector Type</td><td>NS09FW-M2</td></tr> </table> 	Connector No.	M1	Connector Name	FUSE BLOK (J/B)	Connector Type	NS09FW-M2	<table border="1"> <tr><td>Terminal No.</td><td>2A</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> <tr><td>Terminal No.</td><td>5A</td></tr> <tr><td>Color of Wire</td><td>V</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	2A	Color of Wire	G	Signal Name [Specification]		Terminal No.	5A	Color of Wire	V	Signal Name [Specification]												
Connector No.	M1																													
Connector Name	FUSE BLOK (J/B)																													
Connector Type	NS09FW-M2																													
Terminal No.	2A																													
Color of Wire	G																													
Signal Name [Specification]																														
Terminal No.	5A																													
Color of Wire	V																													
Signal Name [Specification]																														

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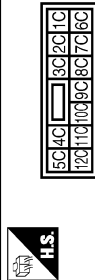
AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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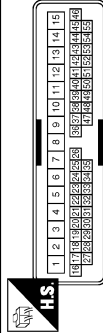
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	HS12FW-CS



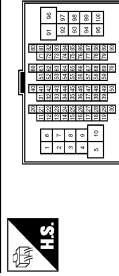
Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

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



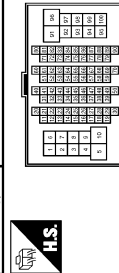
Terminal No.	Color of Wire	Signal Name [Specification]
4	P	-
5	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS18-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
59	V	-
84	G	-
93	Y	-

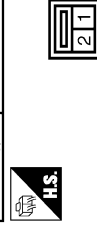
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS18-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	Y	-
33	V	-
41	BR	-
42	R	-
43	W	-
46	L	- [With BOSE audio without NAV]
47	P	- [With BOSE audio without NAV]
48	V	-
57	BR	-
58	Y	-

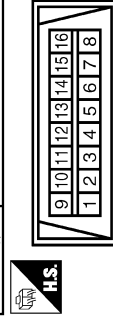
Terminal No.	Color of Wire	Signal Name [Specification]
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SR	-
67	V	-
68	SR	-
69	SHIELD	-
70	V	-
90	O	-

Connector No.	M13
Connector Name	FRONT SOUAVAKER LH
Connector Type	TK02FBR



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

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



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

AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	MS16MW-CS



Terminal No.	15	LG	-
Terminal No.	16	P	-

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FY-IV



Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH



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

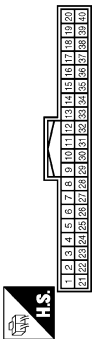
Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
31	L	-
33	B	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN

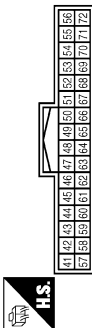
Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



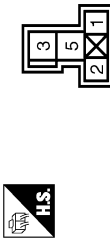
Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2



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

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

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

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

JCNWM0755GI

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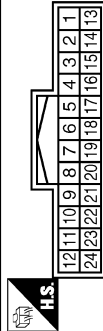
AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



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

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



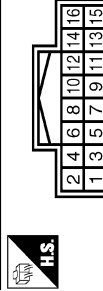
Terminal No.	Color of Wire	Signal Name [Specification]
21	W	SATELLITE SOUND SIGNAL LH (-)
22	B	SATELLITE SOUND SIGNAL LH (+)
23	R	SATELLITE SOUND SIGNAL RH (-)
24	G	SATELLITE SOUND SIGNAL RH (+)
25	SHIELD	SHIELD
26	SHIELD	SHIELD
27	SB	MODE CHANGE SIGNAL
28	W	REQUEST (SAT->CONT)
29	B	COMM (SAT->CONT)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

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

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

Terminal No.	Color of Wire	Signal Name [Specification]
47	O	SIGNAL VCC
49	Y	SHIELD
50	SHIELD	SHIELD
55	SHIELD	SHIELD
56	Y	COMM (CONT->DISP)
57	G	VP
58	BR	INVERTER GND
59	Y	INVERTER VCC

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
6	P	STRG SW A
7	V	ACC
9	R	ILLUMINATION
15	B	STRG SW GND
16	L	STRG SW B
19	Y	BATTERY
20	B	GND

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



Terminal No.	Color of Wire	Signal Name [Specification]
64	SHIELD	SHIELD
65	W	CAMERA IMAGE SIGNAL
66	G	AUX IMAGE SIGNAL
68	W	CONNECTION RECOGNITION
73	SHIELD	SHIELD
74	R	AUX IMAGE GND

JCNWM07566I

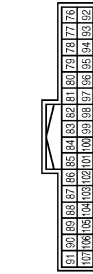
AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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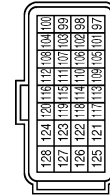
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
79	P	TEL VOICE SIGNAL (-)
80	L	TEL VOICE SIGNAL (+)
81	SHIELD	SHIELD
82	G	IPod SOUND SIGNAL RH (-)
83	B	IPod SOUND SIGNAL RH (+)
84	B	IPod SOUND SIGNAL RH (+)
85	L	GND
86	L	CAN-H
87	P	CAN-L
88	LG	AV COMM (H)
89	Y	AV COMM (L)
90	L	AV COMM (H) [Without rear view monitor]

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-R28-R-LH-Z



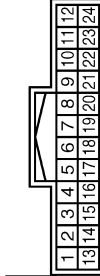
Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-L1
114	L	VEHCAN-H1

Terminal No.	Color of Wire	Signal Name [Specification]
90	G	AV COMM (H) [With rear view monitor]
91	P	AV COMM (L) [Without rear view monitor]
91	R	AV COMM (L) [With rear view monitor]
95	B	AUX SOUND SIGNAL RH (+)
96	R	AUX SOUND SIGNAL LH (+)
97	W	AUX SOUND SIGNAL GND
98	W	IPod SOUND SIGNAL LH (-)
99	R	IPod SOUND SIGNAL LH (+)
101	BR	SW GND
103	SB	DISK EJECT SIGNAL
104	G	IGNITION
105	O	REVERSE
106	V	PARKING BRAKE
107	R	VEHICLE SPEED (8-PULSE)

Terminal No.	Color of Wire	Signal Name [Specification]
108	BR	SOUND SIGNAL REAR RH (+)
109	R	SOUND SIGNAL FRONT RH (+)
110	V	AMP_ON SIGNAL
111	SHIELD	SHIELD
112	V	SOUND SIGNAL REAR LH (+)
113	P	SOUND SIGNAL FRONT LH (+)
114	Y	SOUND SIGNAL REAR RH (-)
115	G	SOUND SIGNAL FRONT RH (-)
118	SB	SOUND SIGNAL REAR LH (-)
119	L	SOUND SIGNAL FRONT LH (-)

Terminal No.	Color of Wire	Signal Name [Specification]
14	G	IPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	IPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	IPod SOUND SIGNAL GND
24	B	IPod SOUND SIGNAL LH (+)

Connector No.	M111
Connector Name	IPod ADAPTER
Connector Type	TH24FW-NH



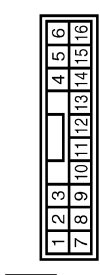
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	IPod SOUND SIGNAL LH (+)
2	B	IPod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (IPod ADAPTER->IPod)
10	L	COMM (IPod->IPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	R	IPod SOUND SIGNAL RH (+)
13	W	IPod SOUND SIGNAL LH (-)

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MNF-NS



Terminal No.	Color of Wire	Signal Name [Specification]
2	B	- [Without NAVI]
3	W	- [Without NAVI]
4	R	- [Without NAVI]

Connector No.	M112
Connector Name	IPod SIDE
Connector Type	IP18FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	IPod SOUND SIGNAL LH (+)
2	W	IPod SOUND SIGNAL GND
5	L	COMM (IPod->IPod ADAPTER)
6	P	COMM (IPod ADAPTER->IPod)
7	R	IPod SOUND SIGNAL RH (+)
9	W	IPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

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AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

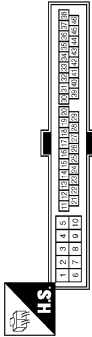
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M114
Connector Name	FRONT SQUAWKER RH
Connector Type	TK02FBR



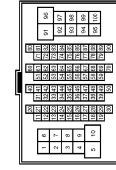
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	— [With BOSE audio]
2	LG	— [With BOSE audio]

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK3BMV-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
31	W	—

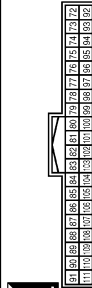
Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH02MW-CS18-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
34	LG	—
35	Y	—
40	Y	—
41	G	—
42	O	—
43	B	—
44	R	—
45	W	—
46	SHIELD	—
47	P	—
48	L	—

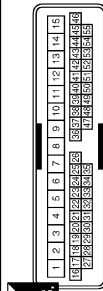
49	SHIELD	—
50	V	—
77	Y	—
78	W	—
79	B	—
83	V	—
84	SHIELD	—
85	R	—
86	SHIELD	—
87	W	—
88	R	—
89	B	—
90	G	—
99	V	— [With BOSE audio]
100	SD	— [With BOSE audio]

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



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	—
8	LG	—

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	—
6	W	—

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	A08FW



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


AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >


BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M370	AV CONTROL UNIT (WITHOUT NAVI)
Connector Name	GT15SH-2/1S-HU	
Connector Type		




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

Connector No.	M375	WIRE TO WIRE
Connector Name	GT13SC-2/1S-HU	
Connector Type		



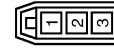
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

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




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

Connector No.	M378	WIRE TO WIRE
Connector Name	GT13SC-2/1S-HU	
Connector Type		




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

Connector No.	M385	WIRE TO WIRE
Connector Name	GT13SCN-2/1PP-HU	
Connector Type		




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

Connector No.	M386	ANTENNA BASE
Connector Name	GT13SSN-1/1PP-HU	
Connector Type		



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

Connector No.	M387	WIRE TO WIRE
Connector Name	1JASO JACK	
Connector Type		



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

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AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
M388	WIRE TO WIRE	JASO PLUS	1	—	—
M389	WINDOW ANTENNA (SUB)	ROUTB-A	1	—	—
R1	WIRE TO WIRE	TK10FW-RS8	2	G	Signal Name [Specification]
R2	WIRE TO WIRE	TH12FW-NH	3	SHIELD	— [Without NAVI]
			4	G	— [Without NAVI]
			5	Y	— [Without NAVI]

Connector No.	Color of Wire	Signal Name [Specification]
R1	WIRE TO WIRE	TK10FW-RS8
R2	WIRE TO WIRE	TH12FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	—	—
2	G	— [Without NAVI]
3	Y	— [Without NAVI]
4	SHIELD	—

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

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

Connector No.	Color of Wire	Signal Name [Specification]
R17	MICROPHONE	TKG4FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
4	R	MICROPHONE VCC

DTC Index

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

JCNWM0760GI

INFOID:000000003508731

AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

DTC	Display item	Refer to
U1000	CAN COMM CIRCUIT [U1000]	AV-207, "Diagnosis Procedure"
U1010	CONTROL UNIT (CAN) [U1010]	AV-208, "Diagnosis Procedure"
U1310	CONTROL UNIT (AV) [U1310]	AV-209, "DTC Logic"
U1200	Control Unit FLASH-ROM [U1200]	AV-210, "DTC Logic"
U1216	CAN CONT [U1216]	AV-211, "DTC Logic"
U1243	FRONT DISP CONN [U1243]	AV-212, "Diagnosis Procedure"
U1250	CAMERA CONT. CONN [U1250]	AV-214, "Diagnosis Procedure"
U1255	SAT CONN [U1255]	AV-215, "Diagnosis Procedure"
U1300 U1240	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] 	AV-217, "Description"
U1300 U1252	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • REAR CAMERA LAN CONN [U1252] 	AV-217, "Description"
U1300 U1254	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • IPOD CONN [U1254] 	AV-217, "Description"
U1300 U1256	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • HAND FREE CONN [U1256] 	AV-217, "Description"
U1300 U1252 U1256	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • REAR CAMERA LAN CONN [U1252] • HAND FREE CONN [U1256] 	AV-217, "Description"
U1300 U1240 U1254 U1256	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • IPOD CONN [U1254] • HAND FREE CONN [U1256] 	AV-217, "Description"
U1300 U1240 U1252 U1254 U1256	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • REAR CAMERA LAN CONN [U1252] • IPOD CONN [U1254] • HAND FREE CONN [U1256] 	AV-217, "Description"

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DISPLAY UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

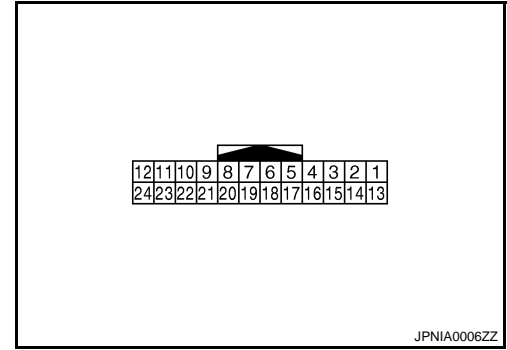
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DISPLAY UNIT

Reference Value

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TERMINAL LAYOUT



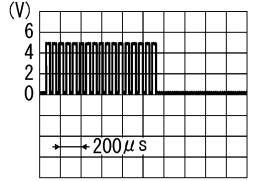
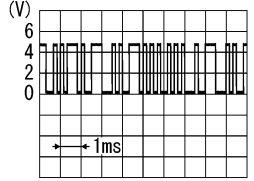
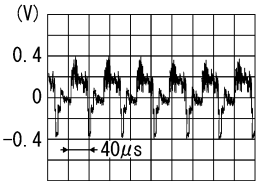
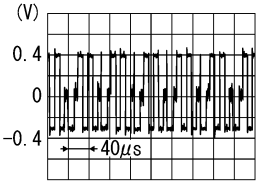
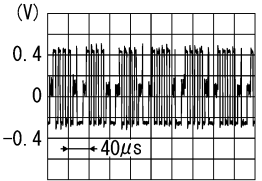
PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
2 (Y)	Ground	Inverter VCC	Input	Ignition switch ACC	—	9.0 V
3 (O)	Ground	Signal VCC	Input	Ignition switch ACC	—	9.0 V
4 (V)	Ground	Composite image ground	—	Ignition switch ON	—	0 V
5 (Y)	—	Shield	—	—	—	—
6 (L)	Ground	RGB signal (G: green)	Input	Ignition switch ON	Start confirmation/adjust- ment mode, and then dis- play color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	<p style="text-align: right;">SKIB2236J</p>
7	—	Shield	—	—	—	—
8 (R)	Ground	Horizontal synchronizing (HP) signal	Output	Ignition switch ON	—	<p style="text-align: right;">SKIB3601E</p>

DISPLAY UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

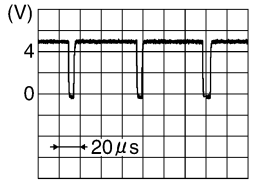
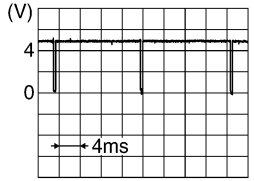
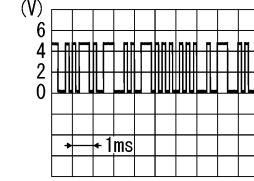
Terminal (Wire color)		Description		Condition	Reference value (Approx.)
+	-	Signal name	Input/ Output		
9 (B)	Ground	RGB area (YS) signal	Input	Ignition switch ON	At RGB image display 5.0 V
				Ignition switch ON	At AUX image display  PKIB4948J
11 (Y)	Ground	Communication signal (CONT→DISP)	Input	Ignition switch ON	When adjusting display brightness.  PKIB5039J
13 (BR)	Ground	Inverter ground	—	Ignition switch ON	— 0 V
14 (LG)	Ground	Signal ground	—	Ignition switch ON	— 0 V
15 (SB)	Ground	Composite image signal	Input	Ignition switch ON	At AUX image display  SKIB2251J
17 (G)	Ground	RGB signal (R: red)	Input	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.  SKIB2238J
18 (P)	Ground	RGB signal (B: blue)	Input	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.  SKIB2237J

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< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
19 (W)	Ground	RGB synchronizing signal	Input	Ignition switch ON	—	 <p style="text-align: right;">SKIB3603E</p>
20 (G)	Ground	Vertical synchronizing (VP) signal	Output	Ignition switch On	—	 <p style="text-align: right;">SKIB3598E</p>
21	—	Shield	—	—	—	—
22 (BR)	Ground	Communication signal (DISP→CONT)	Output	Ignition switch ON	When adjusting display brightness.	 <p style="text-align: right;">PKIB5039J</p>
23	—	Shield	—	—	—	—

Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

INFOID:000000003737122

[Click here to view the eWD.](#)

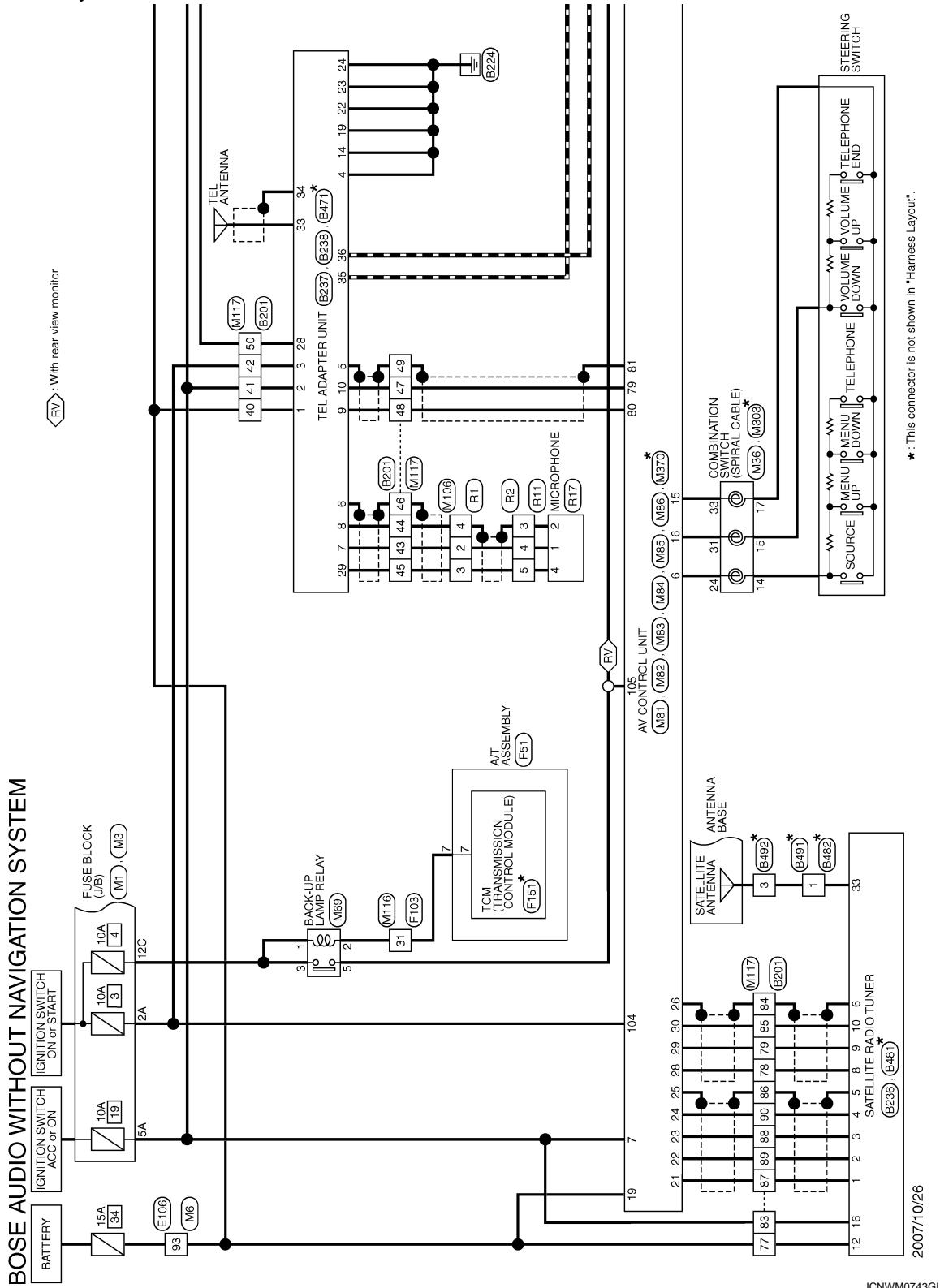
NOTE:

DISPLAY UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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



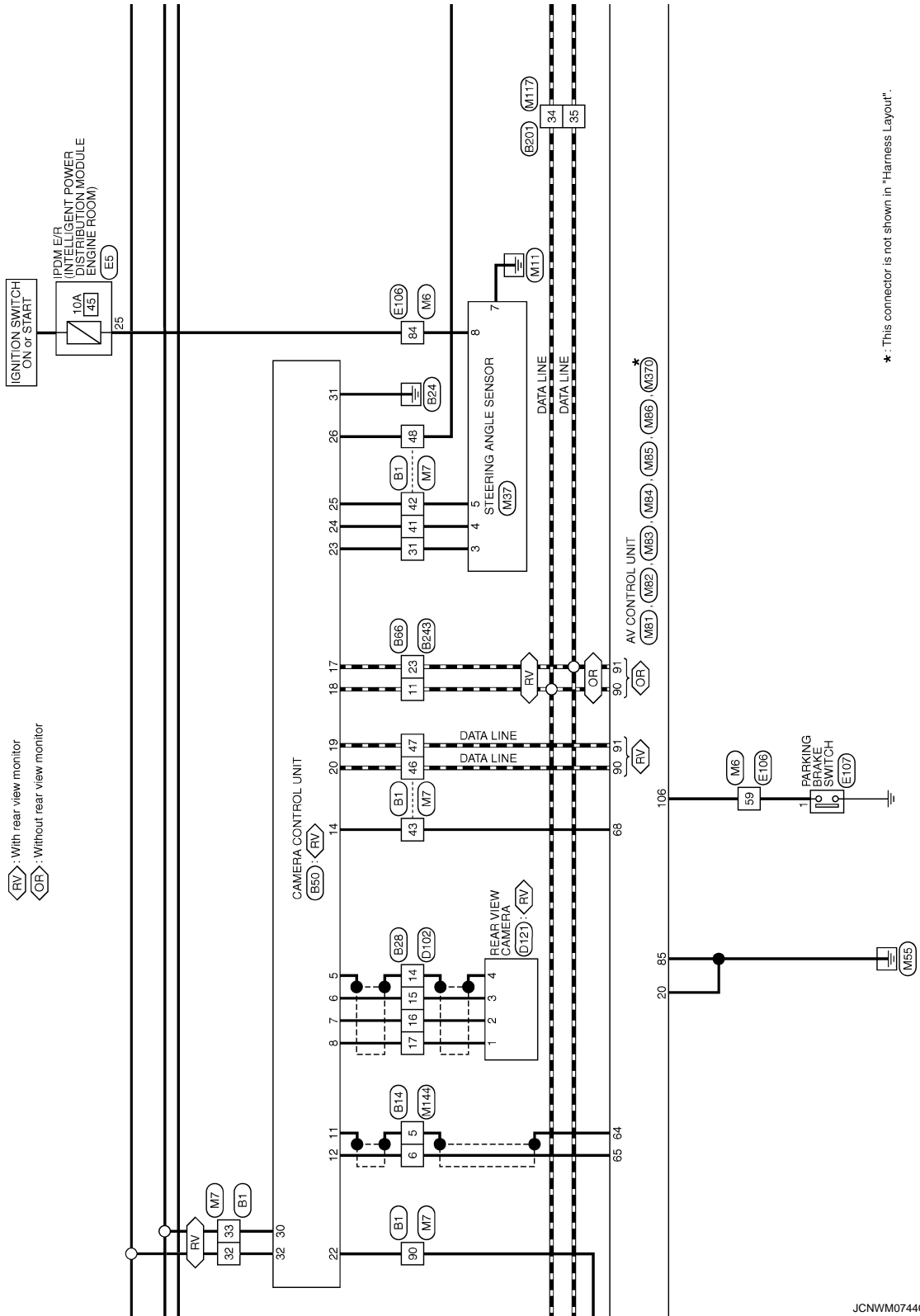
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[BOSE AUDIO WITHOUT NAVIGATION]

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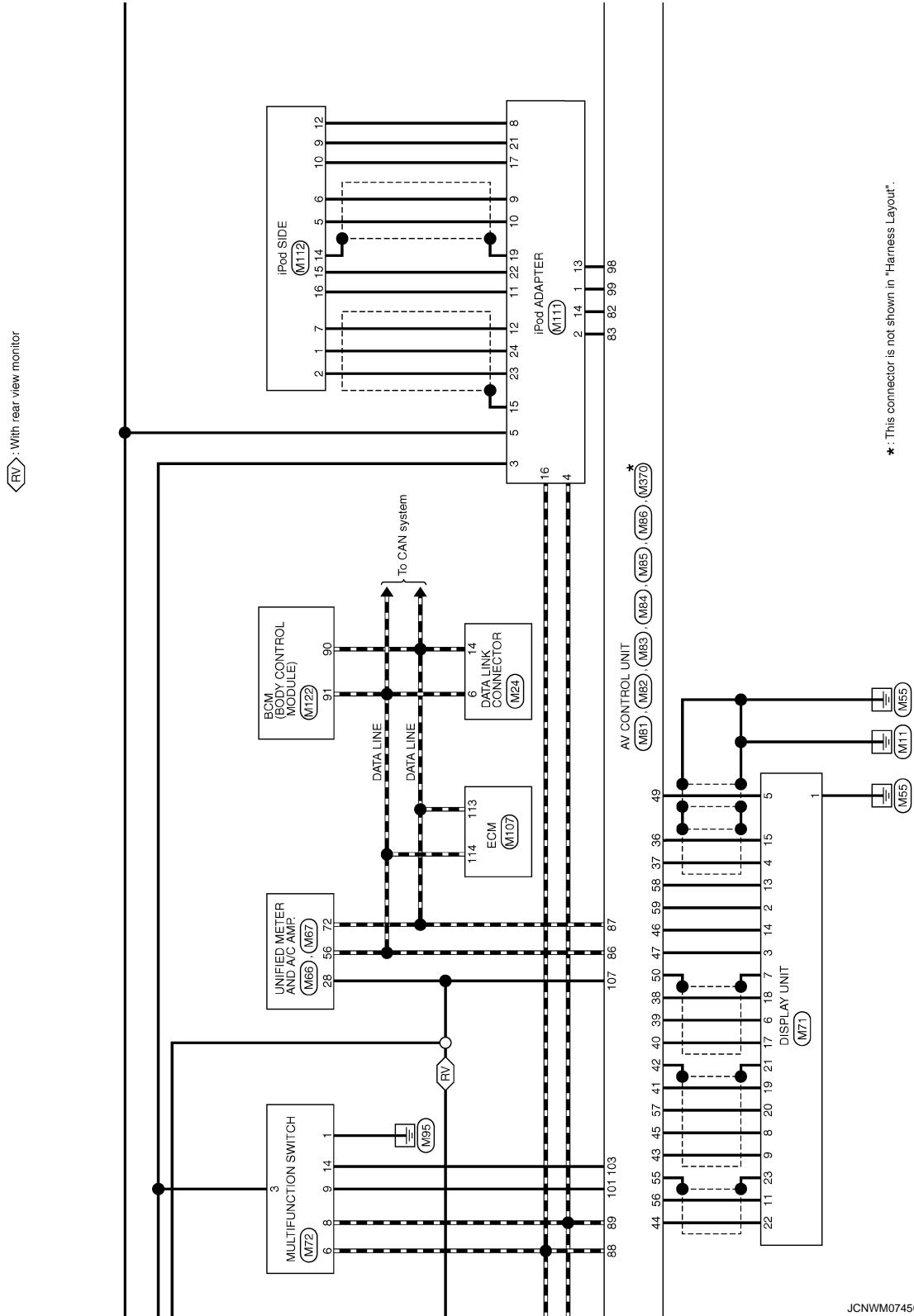
* This connector is not shown in "Harness Layout".

JCNWM0744GI

DISPLAY UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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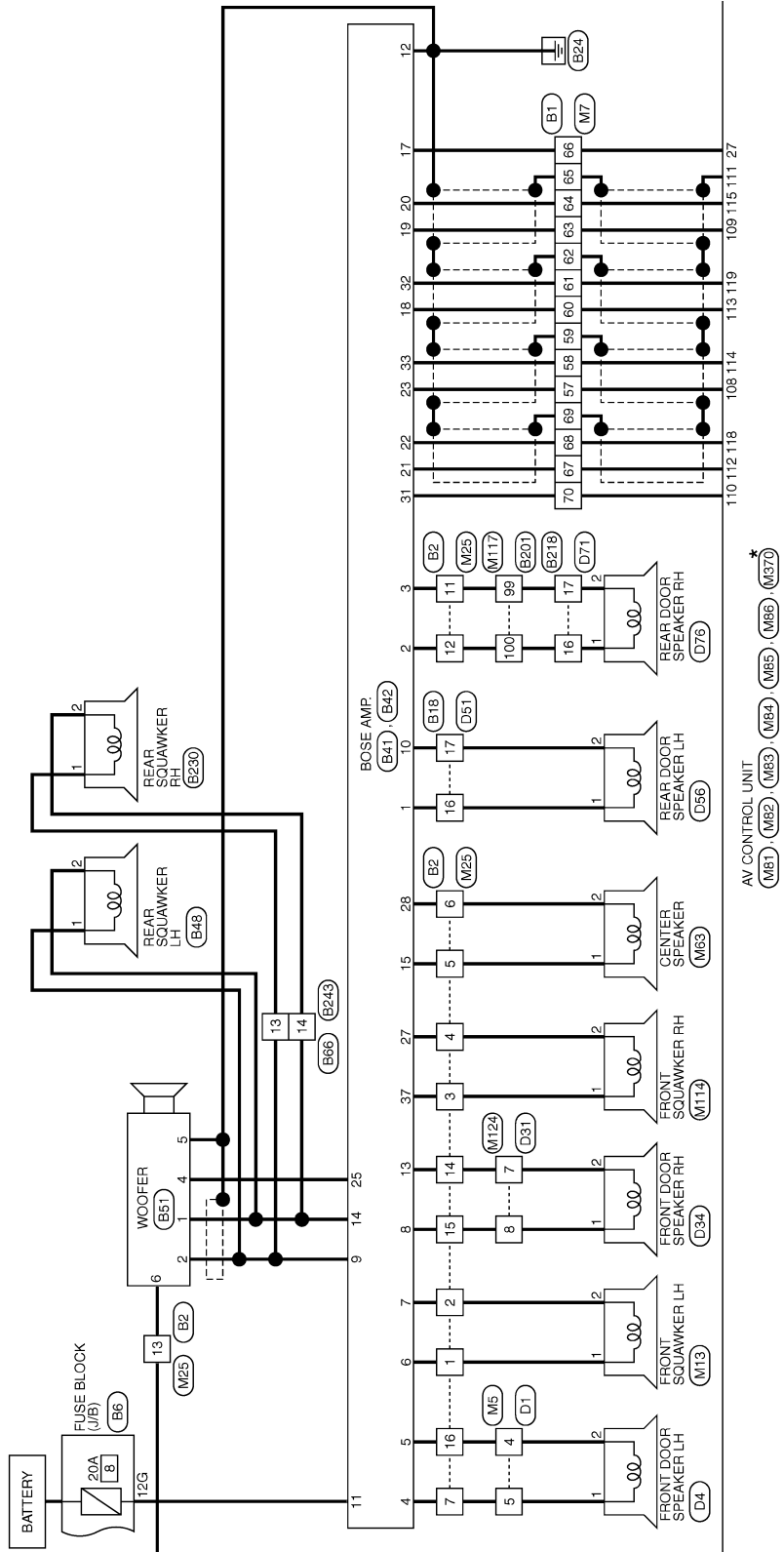
*: This connector is not shown in "Harness Layout".

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DISPLAY UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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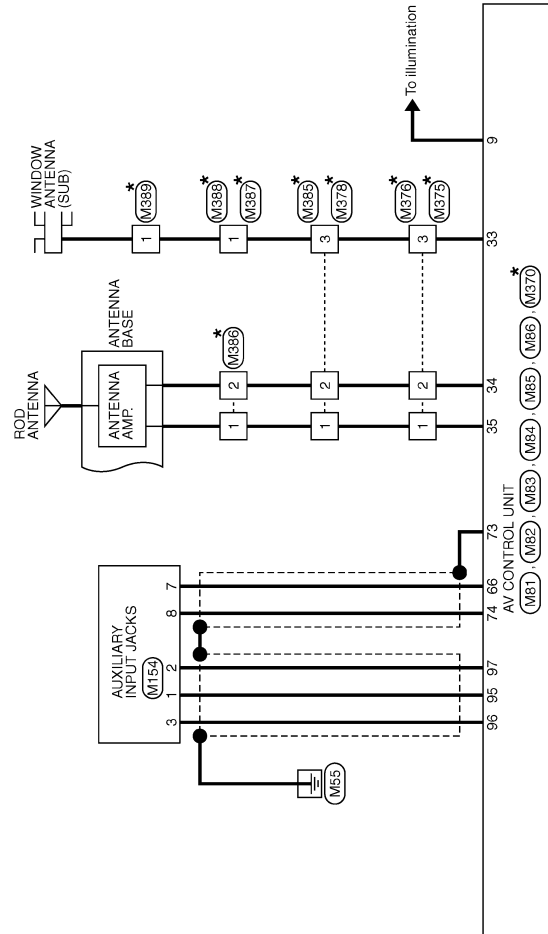
*: This connector is not shown in "Harness Layout".

JCNWM0746G1

DISPLAY UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]



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

JCNWM0747GI

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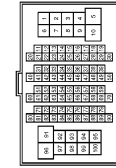
DISPLAY UNIT

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[BOSE AUDIO WITHOUT NAVIGATION]

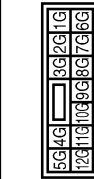
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	L	-
33	LG	-
41	BR	-
42	R	-
43	W	-
45	L	[With BOSE audio without NAV]
47	P	[With BOSE audio without NAV]
48	V	-
57	BR	-
58	Y	-

Connector No.	B8
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



Terminal No.	12G	GR	Signal Name [Specification]	-
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59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
90	O	-

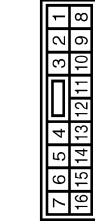
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
6	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH

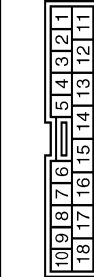


Terminal No.	5	SHIELD	Color of Wire	W	Signal Name [Specification]	-
6	W	-	-	-	-	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



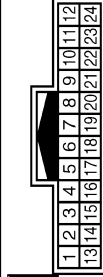
Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



Terminal No.	16	Y	Color of Wire	G	Signal Name [Specification]	- [With BOSE audio]
17	G	-	-	-	-	- [With BOSE audio]

15	LG	-
16	P	-

Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MY-NH



Terminal No.	14	SHIELD	Color of Wire	W	Signal Name [Specification]	- [Without around view monitor]
15	W	-	-	-	-	- [Without around view monitor]
16	B	-	-	-	-	- [Without around view monitor]
17	R	-	-	-	-	- [Without around view monitor]

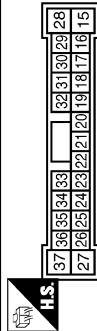
DISPLAY UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA1PFR-SGA4



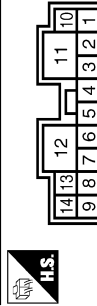
Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (+)
17	O	MODE CHANGE SIGNAL
18	P	SOUND SIGNAL FRONT LH (+)
19	R	SOUND SIGNAL FRONT RH (-)
20	G	SOUND SIGNAL FRONT RH (-)
21	V	SOUND SIGNAL REAR LH (+)
22	SB	SOUND SIGNAL REAR LH (+)
23	BR	SOUND SIGNAL REAR RH (-)
25	GR	WOOFER AMP ON SIGNAL
27	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (-)

Connector No.	B48
Connector Name	REAR SQUAWKER LH
Connector Type	TK02FBR



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

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SCA1PFR-SJA2



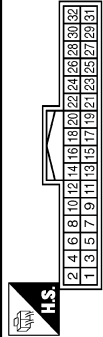
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (-)
3	V	SOUND SIGNAL REAR DOOR RH (-)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
8	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (+)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)
9	G	SOUND SIGNAL WOOFER (+)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

Connector No.	B51
Connector Name	WOOFER
Connector Type	RS08FGY-PR



Terminal No.	Color of Wire	Signal Name [Specification]
22	O	REVERSE
23	L	SENSOR SIGNAL 1
24	BR	SENSOR SIGNAL 2
25	R	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	L	BATTERY

Connector No.	B50
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH43FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	W	CAMERA IMAGE SIGNAL
7	B	CAMERA GND
8	R	CAMERA POWER SUPPLY
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
14	W	CONNECTION RECOGNITION
17	R	AV COMM (L) (With BOSE audio without NAVI)
18	G	AV COMM (H) (With BOSE audio without NAVI)
19	P	AV COMM (L) (With BOSE audio without NAVI)
20	L	AV COMM (H) (With BOSE audio without NAVI)

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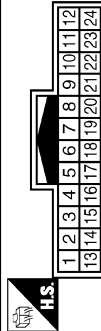
DISPLAY UNIT

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[BOSE AUDIO WITHOUT NAVIGATION]

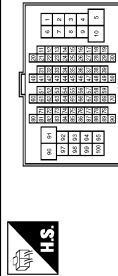
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



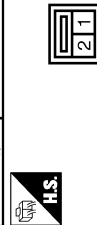
Terminal No.	Color of Wire	Signal Name [Specification]
11	G	
13	L	
14	W	
23	R	

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH82FW-CS16-TM4



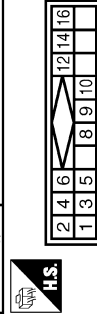
Terminal No.	Color of Wire	Signal Name [Specification]
34	G	
35	R	
40	Y	
41	LG	
42	W	
43	B	
44	R	
45	W	
46	SHIELD	
47	G	
48	Y	

Connector No.	B230
Connector Name	REAR SQUAWKER RH
Connector Type	TK02FBR



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

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

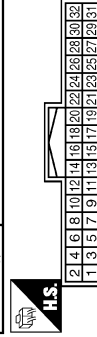


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	SOUND SIGNAL LH (-)
2	R	SOUND SIGNAL LH (+)
3	W	SOUND SIGNAL RH (-)
4	B	SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD
8	L	REQUEST (SAT->CONT)
9	P	COMM (SAT->CONT)
10	G	COMM (CONT->SAT)
12	Y	BATTERY
16	Y	ACC

Terminal No.	Color of Wire	Signal Name [Specification]
49	SHIELD	
50	P	
77	Y	
78	L	
79	G	
83	V	
84	SHIELD	
85	P	
88	SHIELD	
87	G	
89	W	
89	R	
90	B	
99	O	- [With BOSE audio]
100	L	

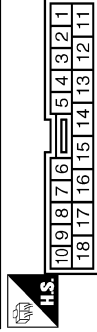
Terminal No.	Color of Wire	Signal Name [Specification]
16	L	
17	O	- [With BOSE audio]

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	BATTERY
2	LG	ACC
3	W	IGNITION
4	B	GND
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	B	MICROPHONE SIGNAL
8	R	MICROPHONE GND
9	Y	TEL VOICE SIGNAL (+)
10	G	TEL VOICE SIGNAL (-)
14	B	GND

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


















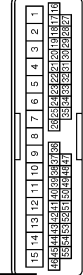
Terminal No.	Color of Wire	Signal Name [Specification]
19	B	GND
22	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
28	P	VEHICLE SPEED (8-PULSE)
29	W	MICROPHONE VCC

DISPLAY UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No. B238	TEL ADAPTER UNIT	TH8BFV-IN1	 	Terminal No. 35 36	Color of Wire L P	Signal Name [Specification] AV COMM (H) AV COMM (L)
Connector No. B243	WIRE TO WIRE	TH24FV-NH	 	Terminal No. 11 13 14 23	Color of Wire L L W P	Signal Name [Specification] — — — —
Connector No. B471	TEL ADAPTER UNIT	GT16C-1S-HU	 	Terminal No. 33 34	Color of Wire — SHIELD	Signal Name [Specification] TEL ANTENNA SHIELD
Connector No. B481	SATELLITE RADIO TUNER	FAKSA	 	Terminal No. 33	Color of Wire —	Signal Name [Specification] SATELLITE ANTENNA
Connector No. B482	WIRE TO WIRE	GT16C-1S-HU	 	Terminal No. 1	Color of Wire —	Signal Name [Specification] —
Connector No. B491	WIRE TO WIRE	GT16C-1PP-HU	 	Terminal No. 1	Color of Wire —	Signal Name [Specification] —
Connector No. B482	ANTENNA BASE	GT16C-1PP-HU	 	Terminal No. 3	Color of Wire —	Signal Name [Specification] SAETLLITE ANTENNA
Connector No. D1	WIRE TO WIRE	TH4DFW-CS15	 	Terminal No. 4 5	Color of Wire W L	Signal Name [Specification] — —

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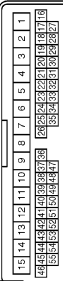
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)
Connector Type	NS02FBR-CS



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

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-CS15



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

Connector No.	D34
Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)
Connector Type	NS02FBR-CS



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

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

Connector No.	D56
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS02FBR-CS



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

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



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

Connector No.	D76
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS02FBR-CS






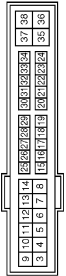
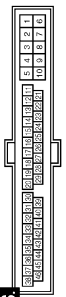
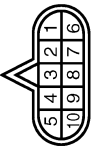


Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	Y	-
16	L	- [Without around view monitor]
17	G	- [Without around view monitor]

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

<table border="1"> <tr><td>Connector No.</td><td>D121</td></tr> <tr><td>Connector Name</td><td>REAR VIEW CAMERA</td></tr> <tr><td>Connector Type</td><td>TH8AWV-NH</td></tr> </table> 	Connector No.	D121	Connector Name	REAR VIEW CAMERA	Connector Type	TH8AWV-NH	<table border="1"> <tr><td>Terminal No.</td><td>1</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td>CAMERA POWER SUPPLY</td></tr> <tr><td>Terminal No.</td><td>2</td></tr> <tr><td>Color of Wire</td><td>L</td></tr> <tr><td>Signal Name [Specification]</td><td>CAMERA GND</td></tr> <tr><td>Terminal No.</td><td>3</td></tr> <tr><td>Color of Wire</td><td>Y</td></tr> <tr><td>Signal Name [Specification]</td><td>CAMERA IMAGE SIGNAL</td></tr> <tr><td>Terminal No.</td><td>4</td></tr> <tr><td>Color of Wire</td><td>SHIELD</td><td>SHIELD</td></tr> </table>	Terminal No.	1	Color of Wire	G	Signal Name [Specification]	CAMERA POWER SUPPLY	Terminal No.	2	Color of Wire	L	Signal Name [Specification]	CAMERA GND	Terminal No.	3	Color of Wire	Y	Signal Name [Specification]	CAMERA IMAGE SIGNAL	Terminal No.	4	Color of Wire	SHIELD	SHIELD
Connector No.	D121																													
Connector Name	REAR VIEW CAMERA																													
Connector Type	TH8AWV-NH																													
Terminal No.	1																													
Color of Wire	G																													
Signal Name [Specification]	CAMERA POWER SUPPLY																													
Terminal No.	2																													
Color of Wire	L																													
Signal Name [Specification]	CAMERA GND																													
Terminal No.	3																													
Color of Wire	Y																													
Signal Name [Specification]	CAMERA IMAGE SIGNAL																													
Terminal No.	4																													
Color of Wire	SHIELD	SHIELD																												
<table border="1"> <tr><td>Connector No.</td><td>E107</td></tr> <tr><td>Connector Name</td><td>PARKING BRAKE SWITCH</td></tr> <tr><td>Connector Type</td><td>TE01PW</td></tr> </table> 	Connector No.	E107	Connector Name	PARKING BRAKE SWITCH	Connector Type	TE01PW	<table border="1"> <tr><td>Terminal No.</td><td>1</td></tr> <tr><td>Color of Wire</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	1	Color of Wire	O	Signal Name [Specification]																		
Connector No.	E107																													
Connector Name	PARKING BRAKE SWITCH																													
Connector Type	TE01PW																													
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Color of Wire	O																													
Signal Name [Specification]																														
<table border="1"> <tr><td>Connector No.</td><td>E106</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH8BFW-CS16-TM4</td></tr> </table> 	Connector No.	E106	Connector Name	WIRE TO WIRE	Connector Type	TH8BFW-CS16-TM4	<table border="1"> <tr><td>Terminal No.</td><td>59</td></tr> <tr><td>Color of Wire</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> <tr><td>Terminal No.</td><td>84</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> <tr><td>Terminal No.</td><td>83</td></tr> <tr><td>Color of Wire</td><td>Y</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	59	Color of Wire	O	Signal Name [Specification]		Terminal No.	84	Color of Wire	G	Signal Name [Specification]		Terminal No.	83	Color of Wire	Y	Signal Name [Specification]						
Connector No.	E106																													
Connector Name	WIRE TO WIRE																													
Connector Type	TH8BFW-CS16-TM4																													
Terminal No.	59																													
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Signal Name [Specification]																														
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Signal Name [Specification]																														
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Color of Wire	Y																													
Signal Name [Specification]																														
<table border="1"> <tr><td>Connector No.</td><td>E103</td></tr> <tr><td>Connector Name</td><td>IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)</td></tr> <tr><td>Connector Type</td><td>TH2BFW-CS12-M4-1V</td></tr> </table> 	Connector No.	E103	Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Type	TH2BFW-CS12-M4-1V	<table border="1"> <tr><td>Terminal No.</td><td>25</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	25	Color of Wire	G	Signal Name [Specification]																		
Connector No.	E103																													
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)																													
Connector Type	TH2BFW-CS12-M4-1V																													
Terminal No.	25																													
Color of Wire	G																													
Signal Name [Specification]																														
<table border="1"> <tr><td>Connector No.</td><td>F103</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TK3BFW-NS10</td></tr> </table> 	Connector No.	F103	Connector Name	WIRE TO WIRE	Connector Type	TK3BFW-NS10	<table border="1"> <tr><td>Terminal No.</td><td>31</td></tr> <tr><td>Color of Wire</td><td>R</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	31	Color of Wire	R	Signal Name [Specification]																		
Connector No.	F103																													
Connector Name	WIRE TO WIRE																													
Connector Type	TK3BFW-NS10																													
Terminal No.	31																													
Color of Wire	R																													
Signal Name [Specification]																														
<table border="1"> <tr><td>Connector No.</td><td>F101</td></tr> <tr><td>Connector Name</td><td>A/T ASSEMBLY</td></tr> <tr><td>Connector Type</td><td>RK10FG-DGY</td></tr> </table> 	Connector No.	F101	Connector Name	A/T ASSEMBLY	Connector Type	RK10FG-DGY	<table border="1"> <tr><td>Terminal No.</td><td>7</td></tr> <tr><td>Color of Wire</td><td>R</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	7	Color of Wire	R	Signal Name [Specification]																		
Connector No.	F101																													
Connector Name	A/T ASSEMBLY																													
Connector Type	RK10FG-DGY																													
Terminal No.	7																													
Color of Wire	R																													
Signal Name [Specification]																														
<table border="1"> <tr><td>Connector No.</td><td>F151</td></tr> <tr><td>Connector Name</td><td>TCM (TRANSMISSION CONTROL MODULE)</td></tr> <tr><td>Connector Type</td><td>SP10FBGY</td></tr> </table> 	Connector No.	F151	Connector Name	TCM (TRANSMISSION CONTROL MODULE)	Connector Type	SP10FBGY	<table border="1"> <tr><td>Terminal No.</td><td>7</td></tr> <tr><td>Color of Wire</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td>REV LAMP RLY</td></tr> </table>	Terminal No.	7	Color of Wire	O	Signal Name [Specification]	REV LAMP RLY																	
Connector No.	F151																													
Connector Name	TCM (TRANSMISSION CONTROL MODULE)																													
Connector Type	SP10FBGY																													
Terminal No.	7																													
Color of Wire	O																													
Signal Name [Specification]	REV LAMP RLY																													
<table border="1"> <tr><td>Connector No.</td><td>M1</td></tr> <tr><td>Connector Name</td><td>FUSE BLOK (J/B)</td></tr> <tr><td>Connector Type</td><td>NS09FW-M2</td></tr> </table> 	Connector No.	M1	Connector Name	FUSE BLOK (J/B)	Connector Type	NS09FW-M2	<table border="1"> <tr><td>Terminal No.</td><td>2A</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> <tr><td>Terminal No.</td><td>5A</td></tr> <tr><td>Color of Wire</td><td>V</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	2A	Color of Wire	G	Signal Name [Specification]		Terminal No.	5A	Color of Wire	V	Signal Name [Specification]												
Connector No.	M1																													
Connector Name	FUSE BLOK (J/B)																													
Connector Type	NS09FW-M2																													
Terminal No.	2A																													
Color of Wire	G																													
Signal Name [Specification]																														
Terminal No.	5A																													
Color of Wire	V																													
Signal Name [Specification]																														

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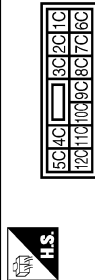
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[BOSE AUDIO WITHOUT NAVIGATION]

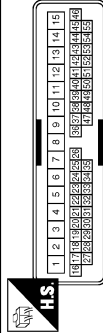
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	HS12FW-CS



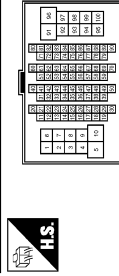
Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

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



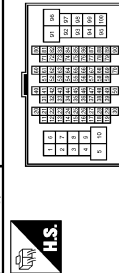
Terminal No.	Color of Wire	Signal Name [Specification]
4	P	-
5	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS18-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
59	V	-
84	G	-
93	Y	-

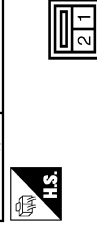
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS18-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	Y	-
33	V	-
41	BR	-
42	R	-
43	W	-
46	L	- [With BOSE audio without NAV]
47	P	- [With BOSE audio without NAV]
48	V	-
57	BR	-
58	Y	-

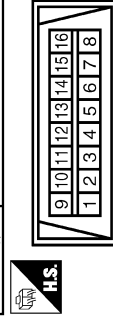
Terminal No.	Color of Wire	Signal Name [Specification]
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SR	-
67	V	-
68	SR	-
69	SHIELD	-
70	V	-
90	O	-

Connector No.	M13
Connector Name	FRONT SOUAWKER LH
Connector Type	TK02FBR



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

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW








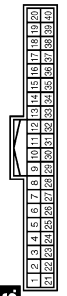

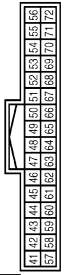



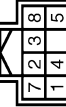

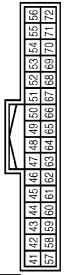


Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

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[BOSE AUDIO WITHOUT NAVIGATION]

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M25	LG	
Connector Name	WIRE TO WIRE	P	
Connector Type	NS16MW-CS		
			
			
Terminal No.	Color of Wire	Signal Name [Specification]	
1	L		
2	W		
3	V		
4	LG		
5	Y		
6	G		
7	L		
11	V		
12	SB		
13	Y		
14	Y		
Connector No.	M3		
Connector Name	CENTER SPEAKER		
Connector Type	TK02FBR		
			
			
Terminal No.	Color of Wire	Signal Name [Specification]	
1	Y		
2	G		
Connector No.	M65		
Connector Name	UNIFIED METER AND A/C AMP.		
Connector Type	TH40FW-NH		
			
			
Terminal No.	Color of Wire	Signal Name [Specification]	
28	R	VEHICLE SPEED (8-PULSE)	
Connector No.	M66		
Connector Name	UNIFIED METER AND A/C AMP.		
Connector Type	TH40FW-NH		
			
			
Terminal No.	Color of Wire	Signal Name [Specification]	
56	L	CAN-H	
72	P	CAN-L	
Connector No.	M36		
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)		
Connector Type	TK08FGY-IV		
			
			
Terminal No.	Color of Wire	Signal Name [Specification]	
24	P		
31	L		
33	B		
Connector No.	M37		
Connector Name	STEERING ANGLE SENSOR		
Connector Type	TH08FW-NH		
			
			
Terminal No.	Color of Wire	Signal Name [Specification]	
3	L	SENSOR1	
4	BR	SENSOR2	
5	R	SENSOR3	
7	B	GND	
8	G	IGN	
Connector No.	M67		
Connector Name	UNIFIED METER AND A/C AMP.		
Connector Type	TH32FW-NH		
			
			
Terminal No.	Color of Wire	Signal Name [Specification]	
61	L	61 12 13 44 45 46 47 48 49 50 51 52 53 54 55 56	
57	BR	57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72	
Connector No.	M69		
Connector Name	BACK-UP LAMP RELAY		
Connector Type	MS02FL-M2		
			
			
Terminal No.	Color of Wire	Signal Name [Specification]	
1	R		
2	W		
3	LG		
5	O		

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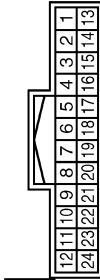
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[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



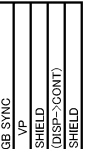
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	INVERTER VCC
3	O	SIGNAL VCC
4	V	COMPOSITE IMAGE GND
5	Y	SHIELD
6	L	RGB (G: GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (YS) SIGNAL
11	Y	COMM (CONT->DISP)
13	BR	INVERTER GND

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



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

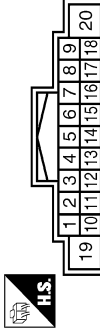
14	LG	SIGNAL GND
15	SB	COMPOSITE IMAGE SIGNAL
17	G	RGB (R: RED) SIGNAL
18	P	RGB (B: BLUE) SIGNAL
19	W	RGB SYNC
20	G	VP
21	SHIELD	SHIELD
22	BR	COMM (DISP->CONT)
23	SHIELD	SHIELD



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

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

Connector No.	M81
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
6	P	STRG SW A
7	V	ACC
9	R	ILLUMINATION
15	B	STRG SW GND
16	L	STRG SW B
19	Y	BATTERY
20	B	GND

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



Terminal No.	Color of Wire	Signal Name [Specification]
64	SHIELD	SHIELD
65	W	CAMERA IMAGE SIGNAL
66	G	AUX IMAGE SIGNAL
68	W	CONNECTION RECOGNITION
73	SHIELD	SHIELD
74	R	AUX IMAGE GND

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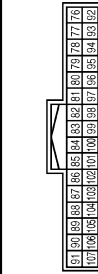
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[BOSE AUDIO WITHOUT NAVIGATION]

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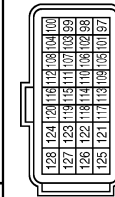
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
79	P	TEL VOICE SIGNAL (-)
80	L	TEL VOICE SIGNAL (+)
81	SHIELD	SHIELD
82	G	IPod SOUND SIGNAL RH (-)
83	B	IPod SOUND SIGNAL RH (+)
84	B	GND
85	L	CAN-H
86	P	CAN-L
87	P	AV COMM (H)
88	LG	AV COMM (L)
89	Y	AV COMM (H)
90	L	AV COMM (L) [Without rear view monitor]

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-R28-R-LH-Z

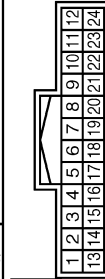


Terminal No.	Color of Wire	Signal Name [Specification]
114	L	VEHCAN-LI
	L	VEHCAN-HI

90	G	AV COMM (H) [With rear view monitor]
91	P	AV COMM (L) [Without rear view monitor]
91	R	AV COMM (L) [With rear view monitor]
95	B	AUX SOUND SIGNAL RH (+)
96	R	AUX SOUND SIGNAL LH (+)
97	W	AUX SOUND SIGNAL GND
98	W	IPod SOUND SIGNAL LH (-)
99	R	IPod SOUND SIGNAL LH (+)
101	BR	SW GND
103	SB	DISK EJECT SIGNAL
104	G	IGNITION
105	O	REVERSE
106	V	PARKING BRAKE
107	R	VEHICLE SPEED (8-PULSE)

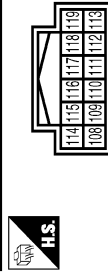
Terminal No.	Color of Wire	Signal Name [Specification]
108	BR	SOUND SIGNAL REAR RH (+)
109	R	SOUND SIGNAL FRONT RH (+)
110	V	AMP_ON SIGNAL
111	SHIELD	SHIELD
112	V	SOUND SIGNAL REAR LH (+)
113	P	SOUND SIGNAL FRONT LH (+)
114	Y	SOUND SIGNAL REAR RH (-)
115	G	SOUND SIGNAL FRONT RH (-)
118	SB	SOUND SIGNAL REAR LH (-)
119	L	SOUND SIGNAL FRONT LH (-)

Connector No.	M111
Connector Name	IPod ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	IPod SOUND SIGNAL LH (+)
2	B	IPod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (IPod ADAPTER->IPod)
10	L	COMM (IPod->IPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	R	IPod SOUND SIGNAL RH (+)
13	W	IPod SOUND SIGNAL LH (-)

Connector No.	M86
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
108	BR	SOUND SIGNAL REAR RH (+)
109	R	SOUND SIGNAL FRONT RH (+)
110	V	AMP_ON SIGNAL
111	SHIELD	SHIELD
112	V	SOUND SIGNAL REAR LH (+)
113	P	SOUND SIGNAL FRONT LH (+)
114	Y	SOUND SIGNAL REAR RH (-)
115	G	SOUND SIGNAL FRONT RH (-)
118	SB	SOUND SIGNAL REAR LH (-)
119	L	SOUND SIGNAL FRONT LH (-)

Connector No.	M112
Connector Name	IPod SIDE
Connector Type	IP18FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	IPod SOUND SIGNAL LH (+)
2	W	IPod SOUND SIGNAL GND
5	L	COMM (IPod->IPod ADAPTER)
6	P	COMM (IPod ADAPTER->IPod)
7	R	IPod SOUND SIGNAL RH (+)
9	W	IPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

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[BOSE AUDIO WITHOUT NAVIGATION]

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M114
Connector Name	FRONT SQUAWKER RH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK3BMV-NS10



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

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH02MW-CS18-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
34	LG	-
35	Y	-
40	Y	-
41	G	-
42	O	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	P	-
48	L	-

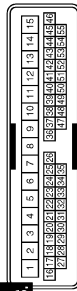
49	SHIELD	-
50	V	-
77	Y	-
78	W	-
79	B	-
83	V	-
84	SHIELD	-
85	R	-
86	SHIELD	-
87	W	-
88	R	-
89	B	-
90	G	-
99	V	- [With BOSE audio]
100	SD	- [With BOSE audio]

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



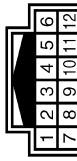
Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

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



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	LG	-

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	-
6	W	-

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	A08FW



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

DISPLAY UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M333
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY



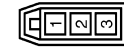
Terminal No.	Color of Wire	Signal Name [Specification]
14	W	-
15	L	-
17	BR	-

Connector No.	M370
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	GT15SHZ-2/1S-HU



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

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



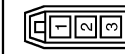
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

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



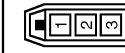
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



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

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU



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

Connector No.	M386
Connector Name	ANTENNA BASE
Connector Type	GT13SSN-1/1PP-HU



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

Connector No.	M387
Connector Name	WIRE TO WIRE
Connector Type	1JASO JACK



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

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DISPLAY UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M388
Connector Name	WIRE TO WIRE
Connector Type	JASO PLUS



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

Connector No.	M389
Connector Name	WINDOW ANTENNA (SUB)
Connector Type	PROTIB-A



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

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-RS8



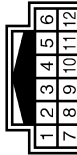
Terminal No.	Color of Wire	Signal Name [Specification]
2	G	- [Without NAV]
3	Y	- [Without NAV]
4	SHIELD	-

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	- [Without NAV]
5	Y	- [Without NAV]

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	-
5	R	-

Connector No.	R17
Connector Name	MICROPHONE
Connector Type	TKG4FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
4	R	MICROPHONE VCC

BOSE AMP.

< ECU DIAGNOSIS >

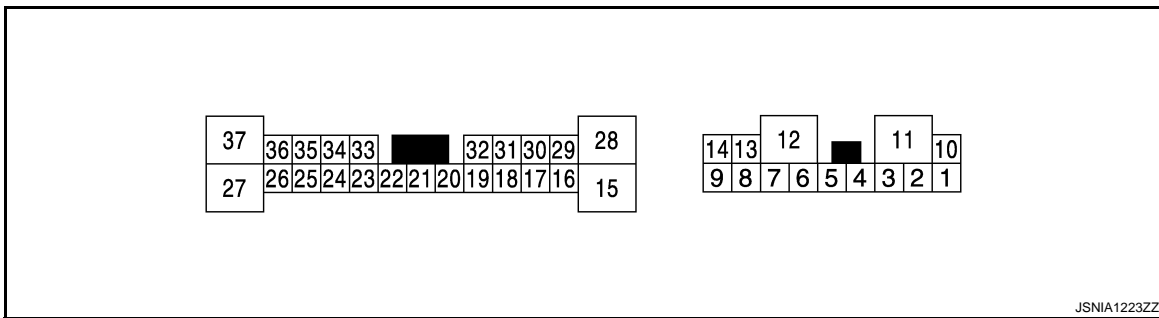
[BOSE AUDIO WITHOUT NAVIGATION]

BOSE AMP.

Reference Value

INFOID:000000003513790

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (Y)	10 (G)	Sound signal rear door speaker LH	Output	Ignition switch ON	Audio output	<p>SKIB3609E</p>
2 (SB)	3 (V)	Sound signal rear door speaker RH	Output	Ignition switch ON	Audio output	<p>SKIB3609E</p>
4 (B)	5 (P)	Sound signal front door speaker LH	Output	Ignition switch ON	Audio output	<p>SKIB3609E</p>
6 (L)	7 (W)	Sound signal front squawk- er LH	Output	Ignition switch ON	Audio output	<p>SKIB3609E</p>

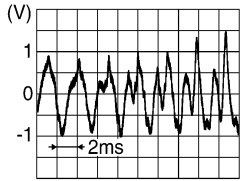
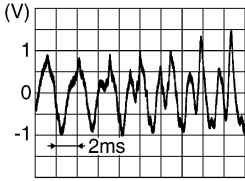
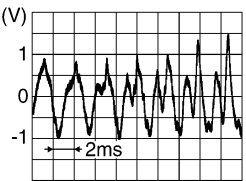
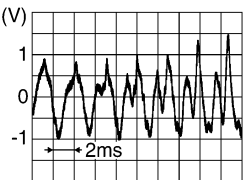
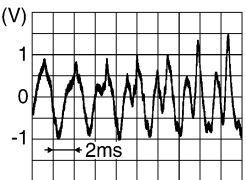
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BOSE AMP.

< ECU DIAGNOSIS >

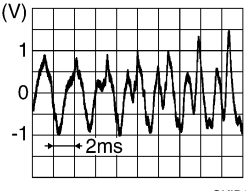
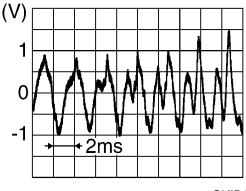
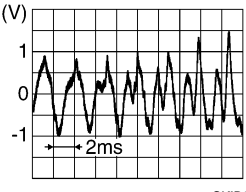
[BOSE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
8 (LG)	13 (Y)	Sound signal front door speaker RH	Output	Ignition switch ON	Audio output	 <small>SKIB3609E</small>
9 (G)	14 (R)	Sound signal woofer and rear squawker (LH and RH)	Output	Ignition switch ON	Audio output	 <small>SKIB3609E</small>
11 (GR)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
12 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
15 (B)	28 (G)	Sound signal center speaker	Output	Ignition switch ON	Audio output	 <small>SKIB3609E</small>
17 (O)	Ground	Mode change signal	Input	Ignition switch ON	Driver's Audio Stage ON	0 V
				Ignition switch ON	Driver's Audio Stage OFF	8.5 V
18 (P)	32 (L)	Sound signal front LH	Input	Ignition switch ON	Audio output	 <small>SKIB3609E</small>
19 (R)	20 (G)	Sound signal front RH	Input	Ignition switch ON	Audio output	 <small>SKIB3609E</small>

BOSE AMP.

< ECU DIAGNOSIS >

[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	Audio output	
23 (BR)	33 (Y)	Sound signal rear RH	Input	Ignition switch ON	Audio output	
25 (GR)	Ground	Woofer amp. ON signal	Output	Ignition switch ACC	—	12.0 V
37 (BR)	27 (R)	Sound signal front squaw- ker RH	Output	Ignition switch ON	Audio output	
31 (W)	Ground	Amp. ON signal	Input	Ignition switch ACC	—	12.0 V

Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

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Click here to view the eWD.

NOTE:

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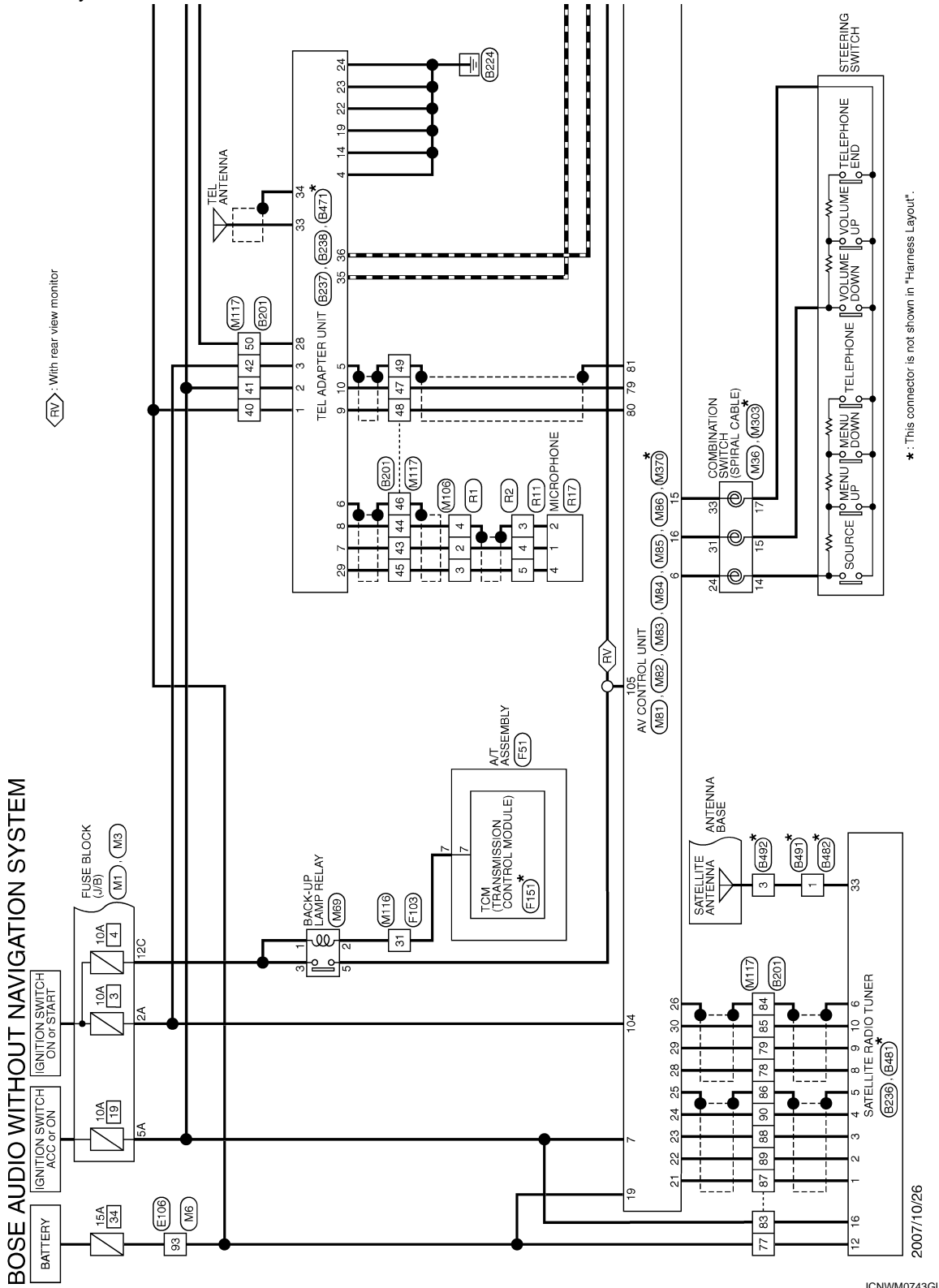
AV

BOSE AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

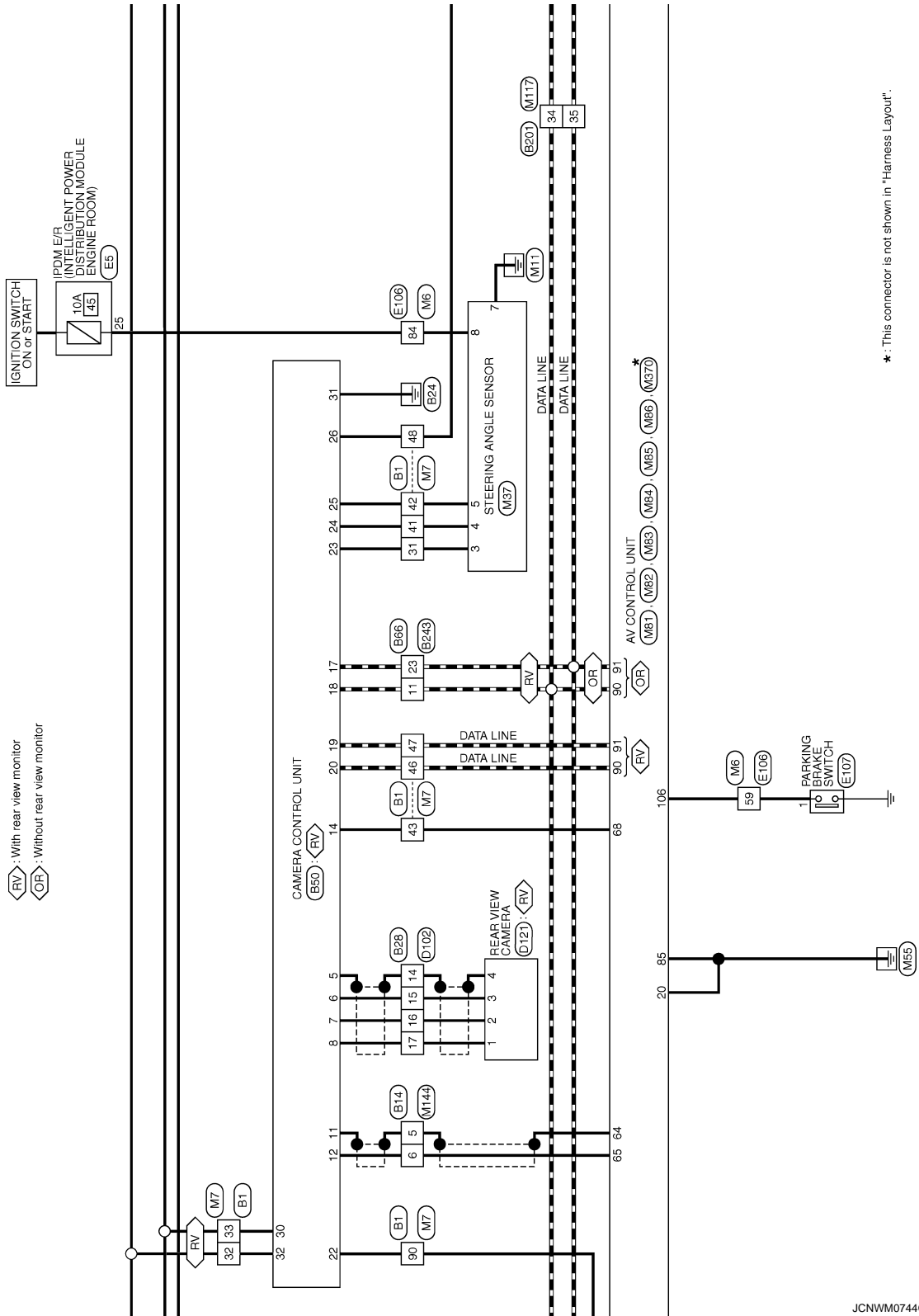
The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.



BOSE AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]



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

RV : With rear view monitor
OR : Without rear view monitor

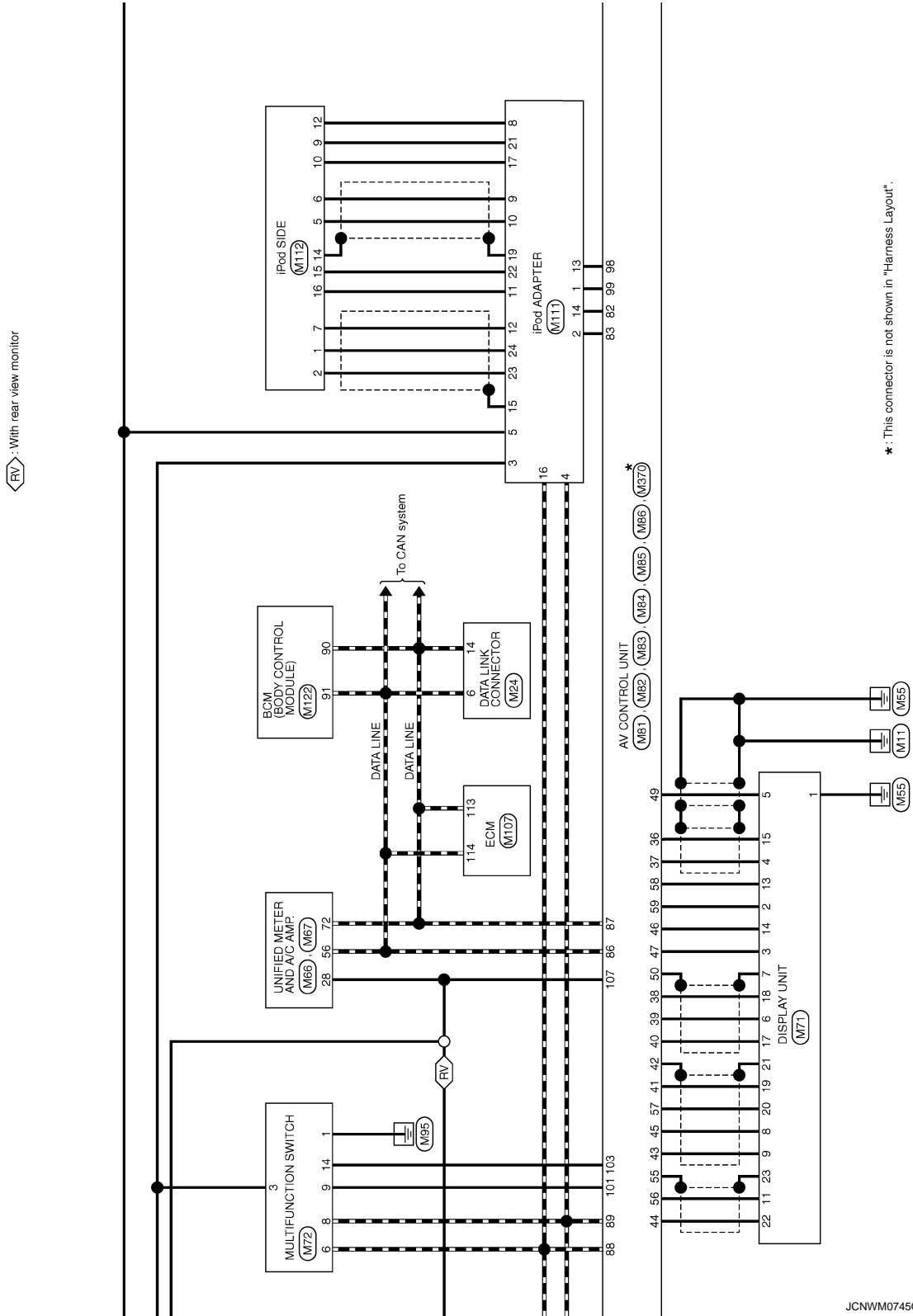
JCNWM0744GI

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BOSE AMP.

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[BOSE AUDIO WITHOUT NAVIGATION]

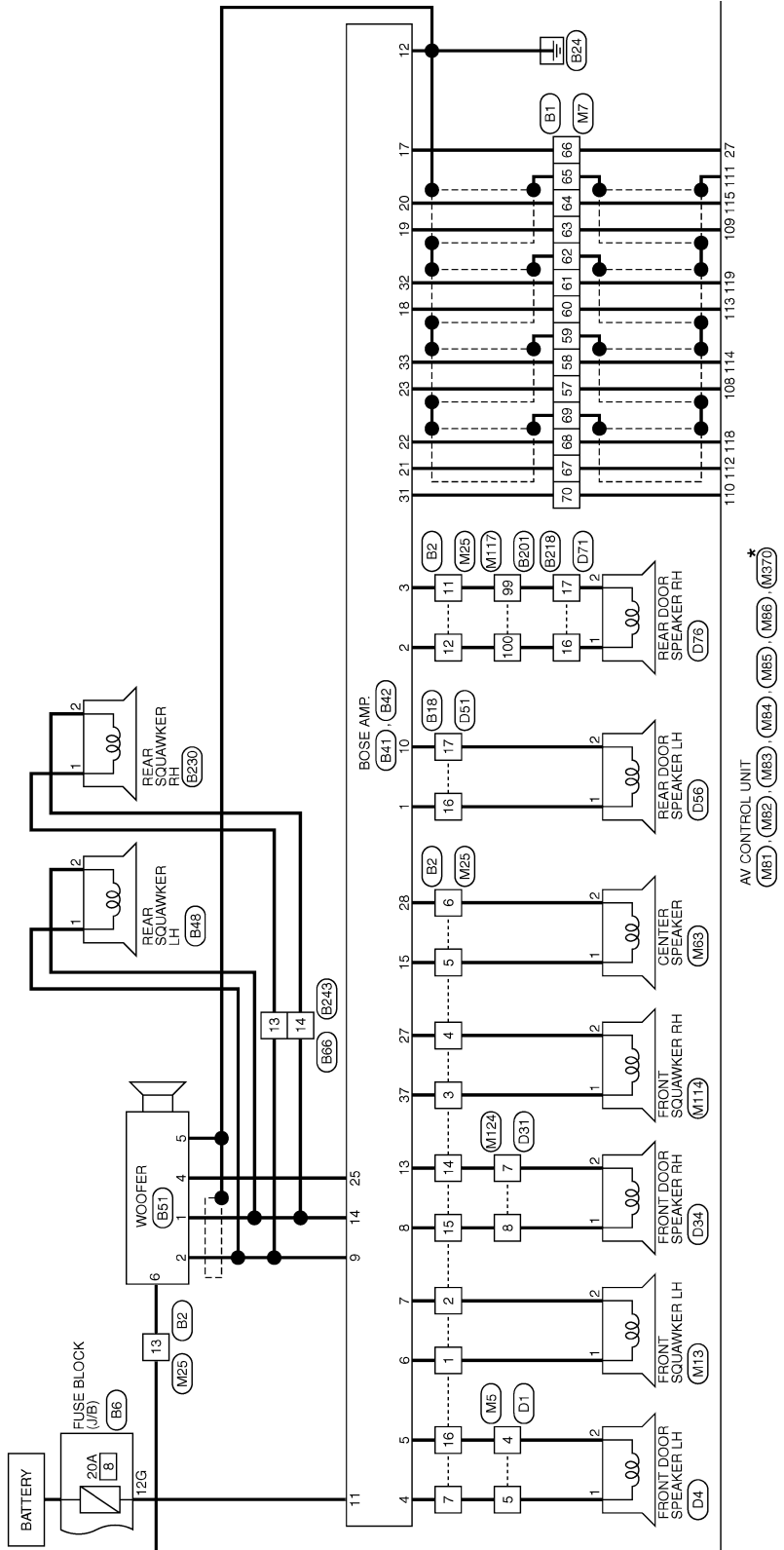


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BOSE AMP.

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >



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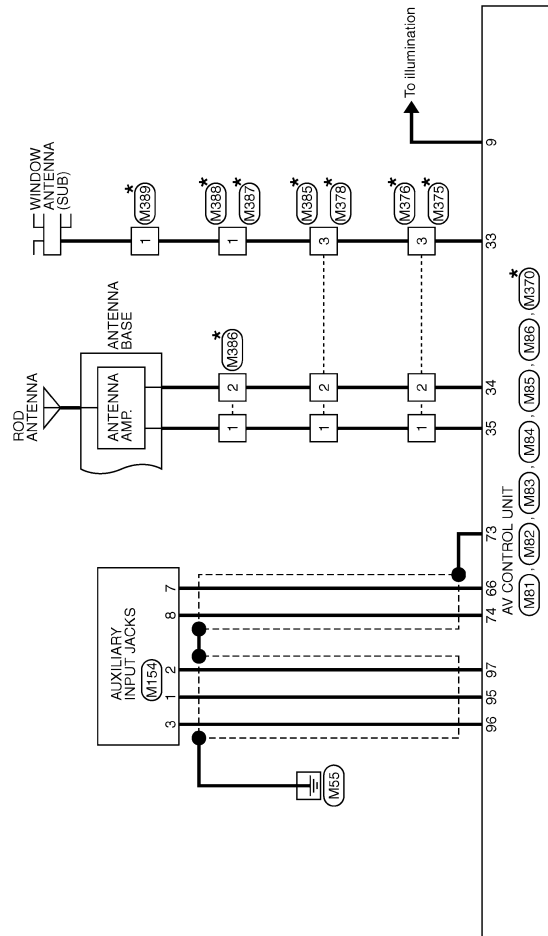
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JCNWM0746GI

BOSE AMP.

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[BOSE AUDIO WITHOUT NAVIGATION]

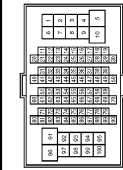


*: This connector is not shown in "Harness Layout".

JCNWM0747GI

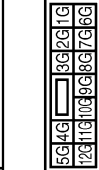
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	L	-
33	LG	-
41	BR	-
42	R	-
43	W	-
46	L	- [With BOSE audio without NAV]
47	P	- [With BOSE audio without NAV]
48	V	-
57	BR	-
58	Y	-

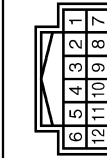
Connector No.	BB
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBF-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12G	GR	-

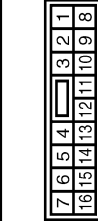
Terminal No.	Color of Wire	Signal Name [Specification]
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
90	O	-

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



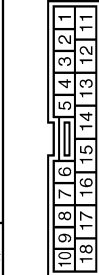
Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	-
6	W	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
8	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

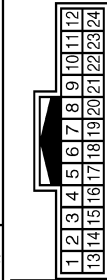
Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
18	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

15	LG	-
16	P	-

Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	W	- [Without around view monitor]
16	B	- [Without around view monitor]
17	R	- [Without around view monitor]

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BOSE AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FBR-SG44

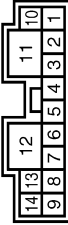


Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (+)
17	O	MODE CHANGE SIGNAL
18	P	SOUND SIGNAL FRONT LH (+)
19	R	SOUND SIGNAL FRONT RH (+)
20	G	SOUND SIGNAL FRONT LH (-)
21	V	SOUND SIGNAL REAR LH (+)
22	SB	SOUND SIGNAL REAR LH (-)
23	BR	SOUND SIGNAL REAR RH (+)
25	GR	WOOFER AMP ON SIGNAL
27	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (-)

Connector No.	B48
Connector Name	REAR SQUAWKER LH
Connector Type	TK02FBR



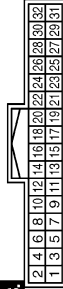
31	W	AMP ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	BR	SOUND SIGNAL FRONT SQUAWKER RH (+)



Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA19FBR-SU42

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (-)
3	V	SOUND SIGNAL REAR DOOR RH (+)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
6	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL WOOFER (+)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

Connector No.	B50
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	W	CAMERA IMAGE SIGNAL
7	B	CAMERA GND
8	R	CAMERA POWER SUPPLY
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
14	W	CONNECTION RECOGNITION
17	R	AV COMM (L) [With BOSE audio without NAVI]
18	G	AV COMM (H) [With BOSE audio without NAVI]
19	P	AV COMM (L) [With BOSE audio without NAVI]
20	L	AV COMM (H) [With BOSE audio without NAVI]

12	B	GND
13	Y	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)
14	R	SOUND SIGNAL WOOFER (-)



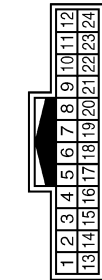
Connector No.	B51
Connector Name	WOOFER
Connector Type	RS08FGY-PR



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP ON SIGNAL
5	B	GND
6	W	BATTERY

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH8GFW-CS16-TM4



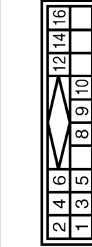
Terminal No.	Color of Wire	Signal Name [Specification]
11	G	
13	L	
14	W	
23	R	

Terminal No.	Color of Wire	Signal Name [Specification]
34	G	
35	R	
40	Y	
41	LG	
42	W	
43	B	
44	R	
45	W	
46	SHIELD	
47	G	
48	Y	

Connector No.	B230
Connector Name	REAR SOUNDWAKER RH
Connector Type	TK02FBR



Connector No.	B238
Connector Name	SATELLITE RADIO TUNER
Connector Type	A18FW



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

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

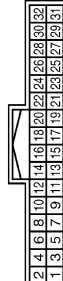
49	SHIELD	
50	P	
77	Y	
78	L	
79	G	
83	V	
84	SHIELD	
85	P	
86	SHIELD	
87	G	
88	W	
89	R	
90	B	
99	O	
100	L	

Terminal No.	Color of Wire	Signal Name [Specification]
16	L	
17	O	

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



Connector No.	B237
Connector Name	TEL ADAPTER UNIT
Connector Type	TH32FW-NH


















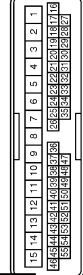


Terminal No.	Color of Wire	Signal Name [Specification]
19	B	GND
22	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
28	P	VEHICLE SPEED (8-PULSE)
29	W	MICROPHONE VCC

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	BATTERY
2	LG	ACC
3	W	IGNITION
4	B	GND
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	B	MICROPHONE SIGNAL
8	R	MICROPHONE GND
9	Y	TEL VOICE SIGNAL (+)
10	G	TEL VOICE SIGNAL (-)
14	B	GND

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

AV

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

<table border="1"> <tr><td>Connector No.</td><td>B238</td></tr> <tr><td>Connector Name</td><td>TEL ADAPTER UNIT</td></tr> <tr><td>Connector Type</td><td>TH8BFW-NH</td></tr> </table>  		Connector No.	B238	Connector Name	TEL ADAPTER UNIT	Connector Type	TH8BFW-NH	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>35</td><td>L</td><td>AV COMM (H)</td></tr> <tr><td>36</td><td>P</td><td>AV COMM (L)</td></tr> </table>		Terminal No.	Color of Wire	Signal Name [Specification]	35	L	AV COMM (H)	36	P	AV COMM (L)									
Connector No.	B238																										
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Connector Type	TH8BFW-NH																										
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35	L	AV COMM (H)																									
36	P	AV COMM (L)																									
<table border="1"> <tr><td>Connector No.</td><td>B243</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH24FW-NH</td></tr> </table>  		Connector No.	B243	Connector Name	WIRE TO WIRE	Connector Type	TH24FW-NH	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>11</td><td>L</td><td>-</td></tr> <tr><td>13</td><td>L</td><td>-</td></tr> <tr><td>14</td><td>W</td><td>-</td></tr> <tr><td>23</td><td>P</td><td>-</td></tr> </table>		Terminal No.	Color of Wire	Signal Name [Specification]	11	L	-	13	L	-	14	W	-	23	P	-			
Connector No.	B243																										
Connector Name	WIRE TO WIRE																										
Connector Type	TH24FW-NH																										
Terminal No.	Color of Wire	Signal Name [Specification]																									
11	L	-																									
13	L	-																									
14	W	-																									
23	P	-																									
<table border="1"> <tr><td>Connector No.</td><td>B471</td></tr> <tr><td>Connector Name</td><td>TEL ADAPTER UNIT</td></tr> <tr><td>Connector Type</td><td>GT16C-IS-HU</td></tr> </table>  		Connector No.	B471	Connector Name	TEL ADAPTER UNIT	Connector Type	GT16C-IS-HU	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>33</td><td>-</td><td>TEL ANTENNA</td></tr> <tr><td>34</td><td>SHIELD</td><td>SHIELD</td></tr> </table>		Terminal No.	Color of Wire	Signal Name [Specification]	33	-	TEL ANTENNA	34	SHIELD	SHIELD									
Connector No.	B471																										
Connector Name	TEL ADAPTER UNIT																										
Connector Type	GT16C-IS-HU																										
Terminal No.	Color of Wire	Signal Name [Specification]																									
33	-	TEL ANTENNA																									
34	SHIELD	SHIELD																									
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Connector Type	FAK8A																										
Terminal No.	Color of Wire	Signal Name [Specification]																									
33	-	SATELLITE ANTENNA																									
<table border="1"> <tr><td>Connector No.</td><td>B491</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>GT16C-IPP-HU</td></tr> </table>  		Connector No.	B491	Connector Name	WIRE TO WIRE	Connector Type	GT16C-IPP-HU	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>-</td><td>-</td></tr> <tr><td>2</td><td>-</td><td>-</td></tr> </table>		Terminal No.	Color of Wire	Signal Name [Specification]	1	-	-	2	-	-									
Connector No.	B491																										
Connector Name	WIRE TO WIRE																										
Connector Type	GT16C-IPP-HU																										
Terminal No.	Color of Wire	Signal Name [Specification]																									
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2	-	-																									
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2	-	-																									
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Connector No.	B491																										
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1	-	-																									
2	-	-																									
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Connector No.	B492																										
Connector Name	WIRE TO WIRE																										
Connector Type	GT16C-IS-HU																										
Terminal No.	Color of Wire	Signal Name [Specification]																									
1	-	-																									
2	-	-																									
3	-	-																									
4	W	-																									
5	L	-																									
<table border="1"> <tr><td>Connector No.</td><td>B482</td></tr> <tr><td>Connector Name</td><td>ANTENNA BASE</td></tr> <tr><td>Connector Type</td><td>GT16C-IPP-HU</td></tr> </table>  		Connector No.	B482	Connector Name	ANTENNA BASE	Connector Type	GT16C-IPP-HU	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>3</td><td>-</td><td>SAETLLITE ANTENNA</td></tr> </table>		Terminal No.	Color of Wire	Signal Name [Specification]	3	-	SAETLLITE ANTENNA												
Connector No.	B482																										
Connector Name	ANTENNA BASE																										
Connector Type	GT16C-IPP-HU																										
Terminal No.	Color of Wire	Signal Name [Specification]																									
3	-	SAETLLITE ANTENNA																									

JCNWM0751GI

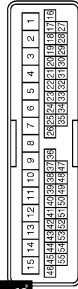
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)
Connector Type	NS2/FBR-CS



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

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH4QFTR-CS15



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

Connector No.	D34
Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)
Connector Type	NS2/FBR-CS



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

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

Connector No.	D56
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS2/FBR-CS



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

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



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

Connector No.	D78
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS2/FBR-CS



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

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	Y	-
16	L	- [Without around view monitor]
17	G	- [Without around view monitor]

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BOSE AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

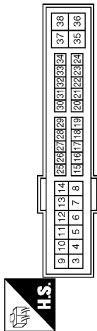
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	D121
Connector Name	REAR VIEW CAMERA
Connector Type	TH04MW-NH



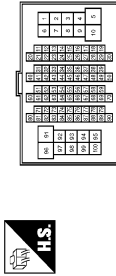
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	CAMERA POWER SUPPLY
2	L	CAMERA GND
3	Y	CAMERA IMAGE SIGNAL
4	SHIELD	SHIELD

Connector No.	E5
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-1V



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

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH02FW-CS16-TM4



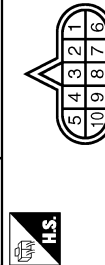
Terminal No.	Color of Wire	Signal Name [Specification]
59	O	-
84	G	-
93	Y	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TE01FW

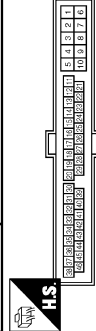


Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

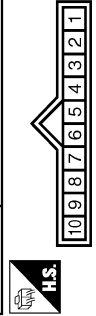
Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



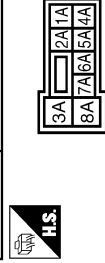
Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK30FW-NS10



Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FBGY



Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS00FW-M2



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

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

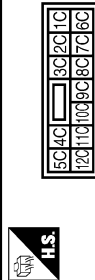
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

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

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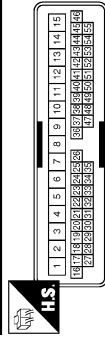
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



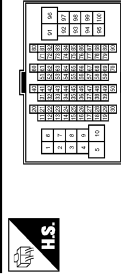
Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
4	P	-
5	L	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
59	V	-
84	G	-
83	Y	-

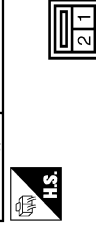
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	Y	-
33	V	-
41	BR	-
42	R	-
43	W	-
46	L	- [With BOSE audio without NAV]
47	P	- [With BOSE audio without NAV]
48	V	-
57	BR	-
58	Y	-

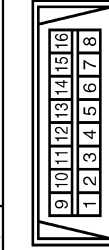
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SP	-
67	SP	-
68	SS	-
69	SHIELD	-
70	V	-
90	O	-

Connector No.	M13
Connector Name	FRONT SQUAWKER LH
Connector Type	TK02FBR



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

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



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

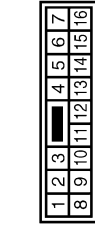
BOSE AMP.

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[BOSE AUDIO WITHOUT NAVIGATION]

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	HS16MW-CS



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

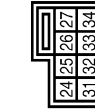
Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



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

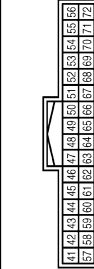
Terminal No.	I5	LG
Terminal No.	I6	P

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



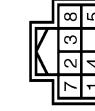
Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
31	L	-
33	B	-

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



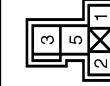
Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2

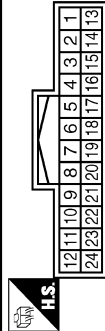


Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



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

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



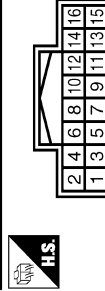
Terminal No.	Color of Wire	Signal Name [Specification]
21	W	SATELLITE SOUND SIGNAL LH (-)
22	B	SATELLITE SOUND SIGNAL LH (+)
23	R	SATELLITE SOUND SIGNAL RH (-)
24	G	SATELLITE SOUND SIGNAL RH (+)
25	SHIELD	SHIELD
26	SHIELD	SHIELD
27	SB	MODE CHANGE SIGNAL
28	W	REQUEST (SAT->CONT)
29	B	COMM (SAT->CONT)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

14	LG	SIGNAL GND
15	SB	COMPOSITE IMAGE SIGNAL
17	G	RGB (B: BLUE) SIGNAL
18	P	RGB (B: BLUE) SIGNAL
19	W	RGB SYNC
20	G	VP
21	SHIELD	SHIELD
22	BR	COMM (DISP->CONT)
23	SHIELD	SHIELD

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	V	AGC
6	LG	AV COMM (H)
8	V	AV COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL

Terminal No.	Color of Wire	Signal Name [Specification]
47	O	SIGNAL VCC
49	Y	SHIELD
50	SHIELD	SHIELD
55	SHIELD	SHIELD
56	Y	COMM (CONT->DISP)
57	G	VP
58	BR	INVERTER GND
59	Y	INVERTER VCC

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
6	P	STRG SW A
7	V	AGC
9	R	ILLUMINATION
15	B	STRG SW GND
18	L	STRG SW B
19	Y	BATTERY
20	B	GND

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



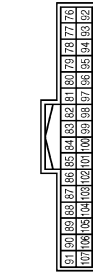
Terminal No.	Color of Wire	Signal Name [Specification]
64	SHIELD	SHIELD
65	W	CAMERA IMAGE SIGNAL
66	G	AUX IMAGE SIGNAL
68	W	CONNECTION RECOGNITION
73	SHIELD	SHIELD
74	R	AUX IMAGE GND

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AV

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
79	P	TEL VOICE SIGNAL (-)
80	L	TEL VOICE SIGNAL (+)
81	SHIELD	SHIELD
82	G	iPod SOUND SIGNAL RH (-)
83	B	iPod SOUND SIGNAL RH (+)
84	B	GND
85	L	CAN-H
86	P	CAN-L
87	LG	AV COMM (H)
88	V	AV COMM (L)
90	L	AV COMM (H) [Without rear view monitor]

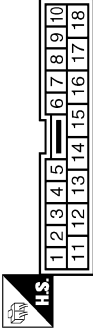
90	G	AV COMM (H) [With rear view monitor]
91	P	AV COMM (L) [Without rear view monitor]
91	R	AV COMM (L) [With rear view monitor]
95	B	AUX SOUND SIGNAL RH (+)
96	R	AUX SOUND SIGNAL LH (+)
97	W	AUX SOUND SIGNAL GND
98	W	iPod SOUND SIGNAL LH (-)
99	R	iPod SOUND SIGNAL LH (+)
101	BR	SW GND
103	SB	DISK EJECT SIGNAL
104	G	IGNITION
105	O	REVERSE
106	V	PARKING BRAKE
107	R	VEHICLE SPEED (8-PULSE)

Connector No.	M86
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH12FW-NH



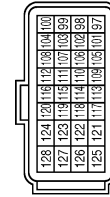
Terminal No.	Color of Wire	Signal Name [Specification]
108	BR	SOUND SIGNAL REAR RH (+)
109	R	SOUND SIGNAL FRONT RH (+)
110	V	AMP. ON SIGNAL
111	SHIELD	SHIELD
112	V	SOUND SIGNAL REAR LH (+)
113	P	SOUND SIGNAL FRONT LH (+)
114	Y	SOUND SIGNAL REAR RH (-)
115	G	SOUND SIGNAL FRONT RH (-)
118	SB	SOUND SIGNAL REAR LH (-)
119	L	SOUND SIGNAL FRONT LH (-)

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	FK10MM-NSS



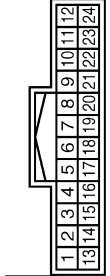
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	- [Without NAVI]
3	W	- [Without NAVI]
4	R	- [Without NAVI]

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-R26-R-LH-Z



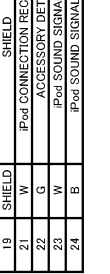
Terminal No.	Color of Wire	Signal Name [Specification]
114	L	VEHCAN-L1
113	P	VEHCAN-H1

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod->iPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	R	iPod SOUND SIGNAL RH (+)
13	W	iPod SOUND SIGNAL LH (-)

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP18FGY



Terminal No.	Color of Wire	Signal Name [Specification]
14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	W	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	R	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M114
Connector Name	FRONT SQUAWKER RH
Connector Type	TK22FBR



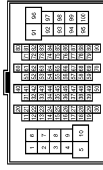
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK38MP-NS10



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

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



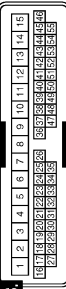
Terminal No.	Color of Wire	Signal Name [Specification]
34	LG	-
35	V	-
40	Y	-
41	G	-
42	O	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	P	-
48	L	-

49	SHIELD	-
50	V	-
77	Y	-
78	W	-
79	B	-
83	V	-
84	SHIELD	-
85	R	-
86	SHIELD	-
87	W	-
88	R	-
89	B	-
90	G	-
99	V	- [With BOSE audio]
100	SB	- [With BOSE audio]

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



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



Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AUBFW



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

Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	LG	-

Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	-
6	W	-

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

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK0BE GY



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

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



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

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



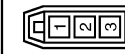
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

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



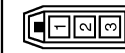
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



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

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU



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

Connector No.	M386
Connector Name	ANTENNA BASE
Connector Type	GT13SSN-1/1PP-HU



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

Connector No.	M387
Connector Name	WIRE TO WIRE
Connector Type	LAJAO JACK



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

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M388
Connector Name	WIRE TO WIRE
Connector Type	JASO PLUG



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

Connector No.	M389
Connector Name	WINDOW ANTENNA (SUB)
Connector Type	PRO1FB-A



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

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TK04FW-NSB



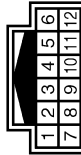
Terminal No.	Color of Wire	Signal Name [Specification]
2	G	- [Without NAV]
3	Y	- [Without NAV]
4	SHIELD	-

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	- [Without NAV]
5	Y	- [Without NAV]

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	-
5	R	-

Connector No.	R17
Connector Name	MICROPHONE
Connector Type	TK04FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
4	R	MICROPHONE VCC

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IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

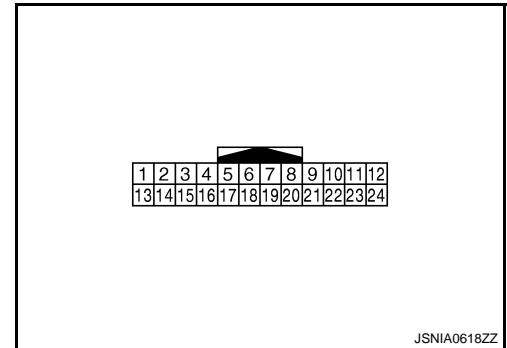
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IPOD ADAPTER

Reference Value

INFOID:000000003513792

TERMINAL LAYOUT



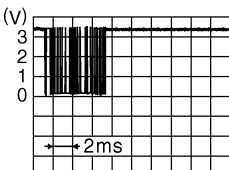
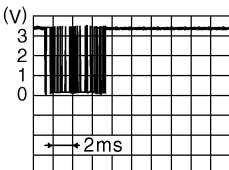
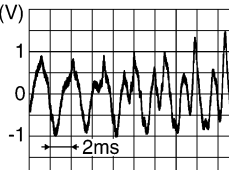
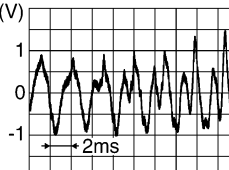
PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (R)	13 (W)	iPod sound signal LH	Output	Ignition switch ON	When iPod mode is select- ed	<p style="text-align: right;">SKIB3609E</p>
2 (B)	14 (G)	iPod sound signal RH	Output	Ignition switch ON	When iPod mode is select- ed	<p style="text-align: right;">SKIB3609E</p>
3 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
4 (R)	—	AV communication signal (L)	Input/ Output	—	—	—
5 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
8 (W)	Ground	iPod battery charge	Output	Ignition switch ON	Connected to iPod®	12.0 V

IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
9 (P)	Ground	Communication signal (iPod adapter→iPod®)	Output	Ignition switch ON	The wave pattern is displayed just after iPod connection.	 <p style="text-align: right; font-size: small;">JPNIA0462GB</p> <p>NOTE: After the wave pattern display, the value continues Approx 3.3 V</p>
10 (L)	Ground	Communication signal (iPod®→iPod adapter)	Input	Ignition switch ON	Connected to iPod®	 <p style="text-align: right; font-size: small;">JPNIA0462GB</p>
11 (O)	Ground	ACCESSORY-IDENTIFY	—	Ignition switch ON	Connected to iPod®	0 V
12 (R)	23 (W)	iPod sound signal RH	Input	Ignition switch ON	When iPod mode is selected	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
15	—	Shield	—	—	—	—
16 (G)	—	AV communication signal (H)	Input/ Output	—	—	—
17 (BR)	Ground	Ground	—	Ignition switch ON	—	0 V
19	—	Shield	—	—	—	—
21 (W)	Ground	iPod connection recognition signal	Input	Ignition switch ON	Not connected to iPod®	4.0 V
					Connected to iPod®	0 V
22 (G)	Ground	ACCESSORY-DETECT	—	Ignition switch ON	Connected to iPod®	0 V
24 (B)	23 (W)	iPod sound signal LH	Input	Ignition switch ON	When iPod mode is selected	 <p style="text-align: right; font-size: small;">SKIB3609E</p>

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IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

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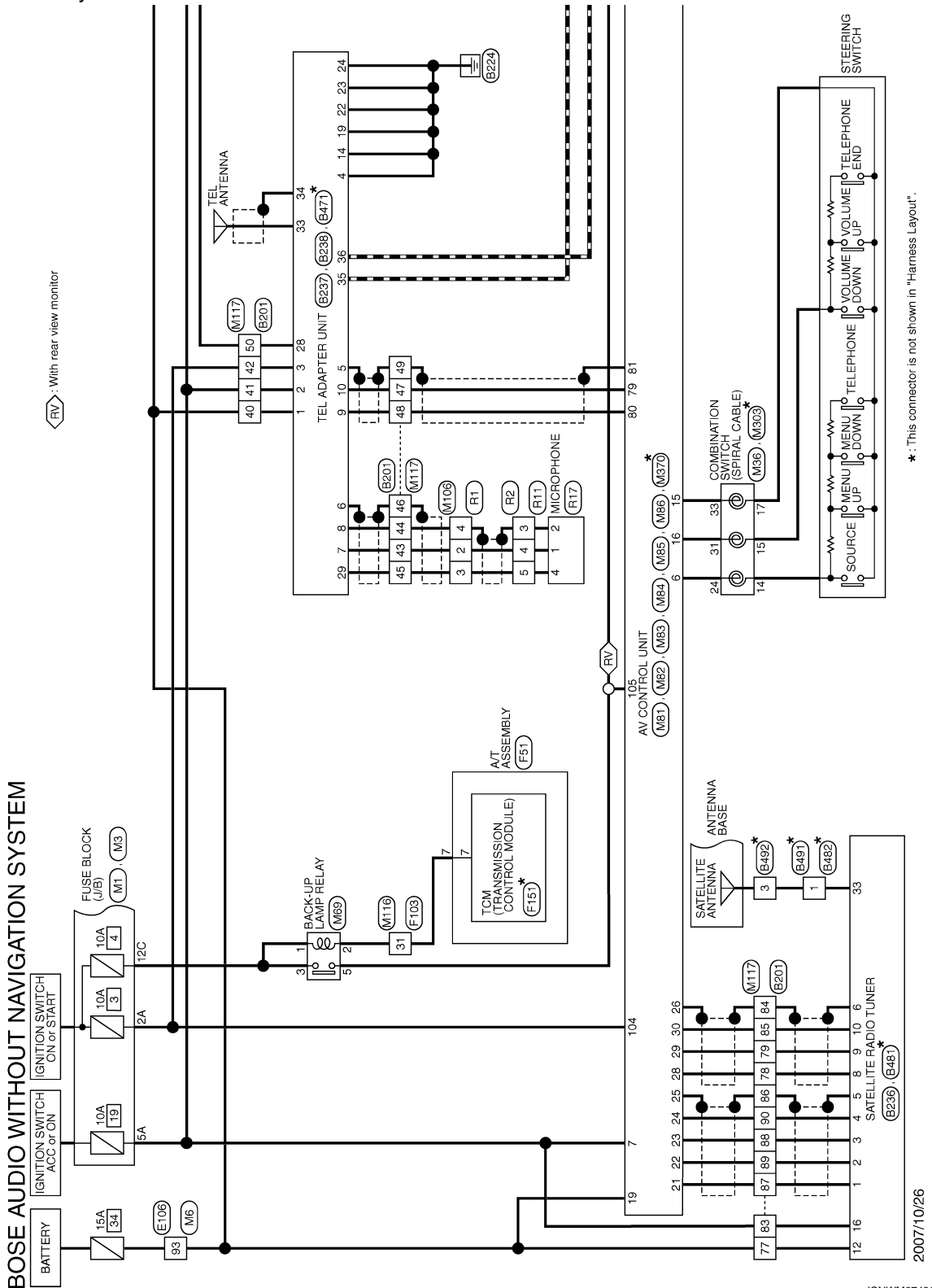
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

INFOID:000000003737124

Click here to view the eWD.

NOTE:

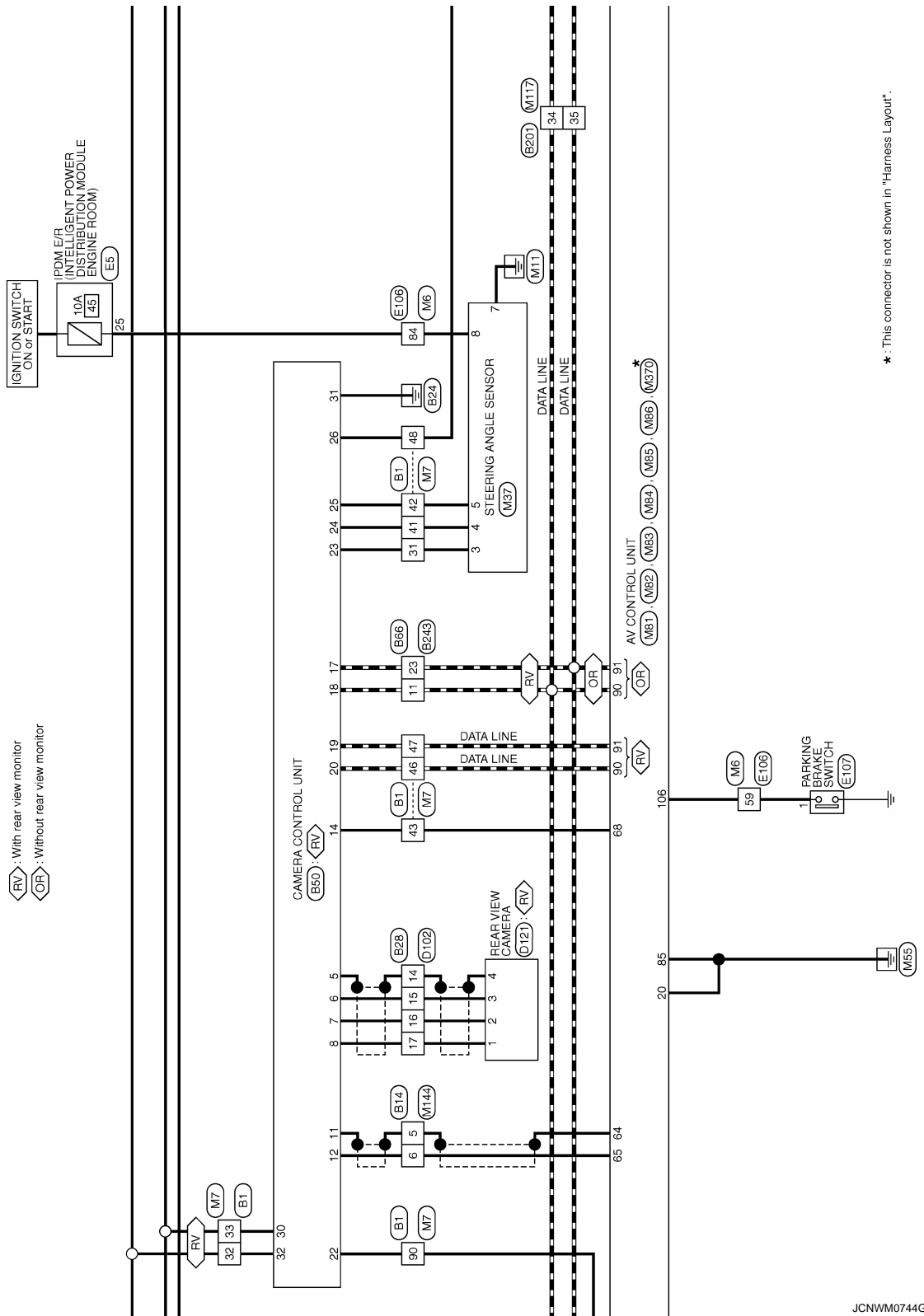
The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.



IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

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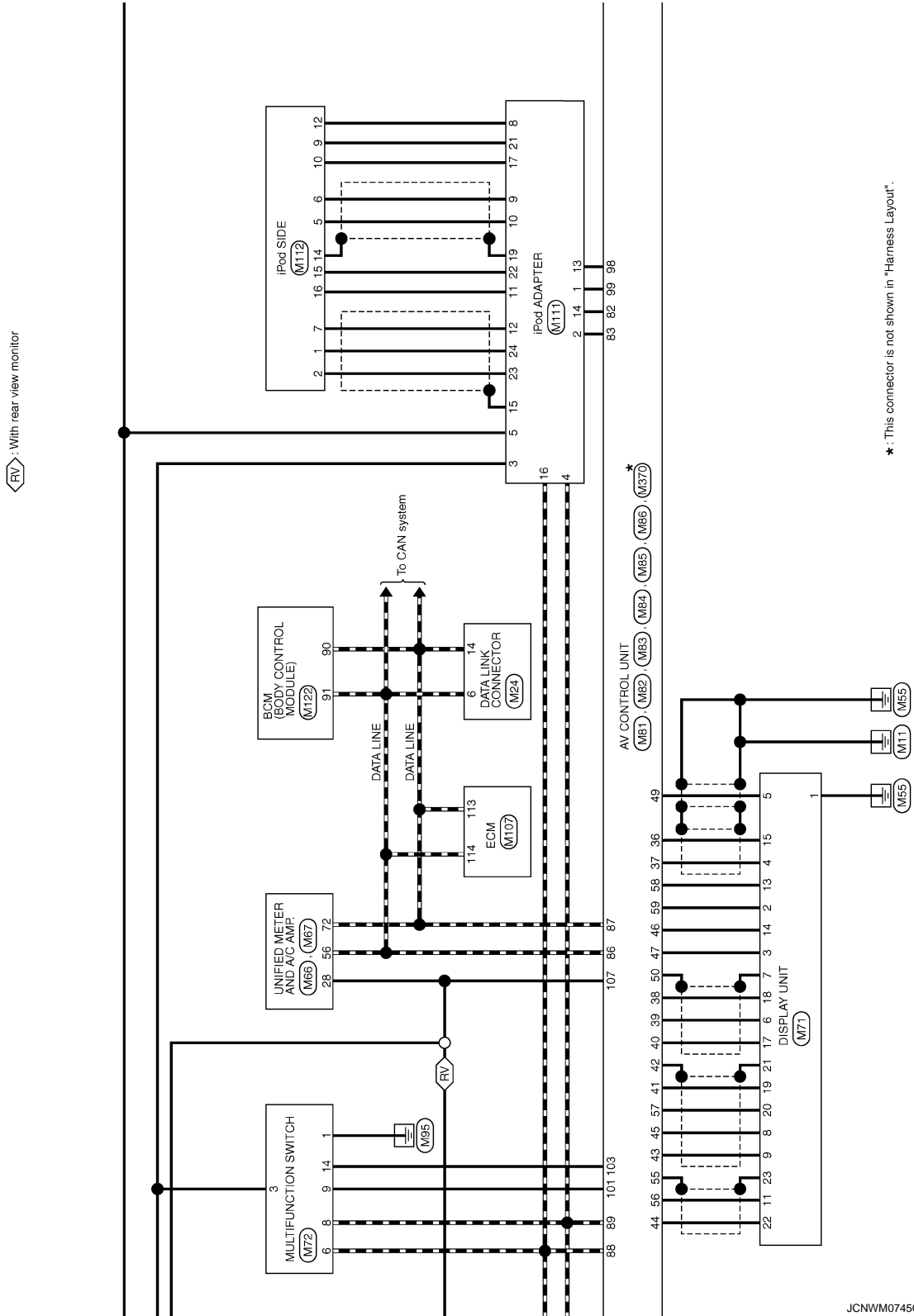
JCNWM0744GI

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IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

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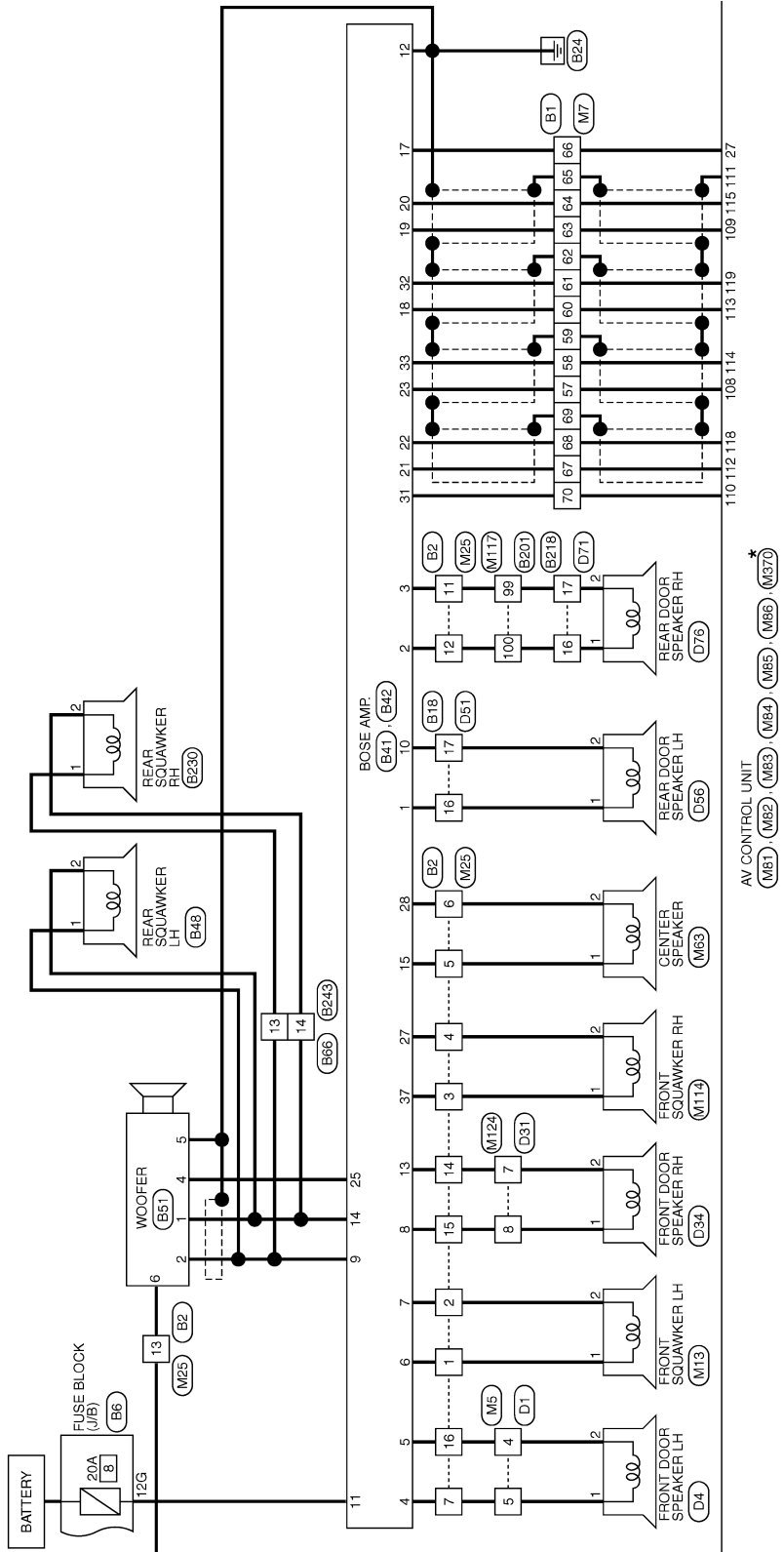


JCNWM0745GI

IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

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

JCNWM0746GI

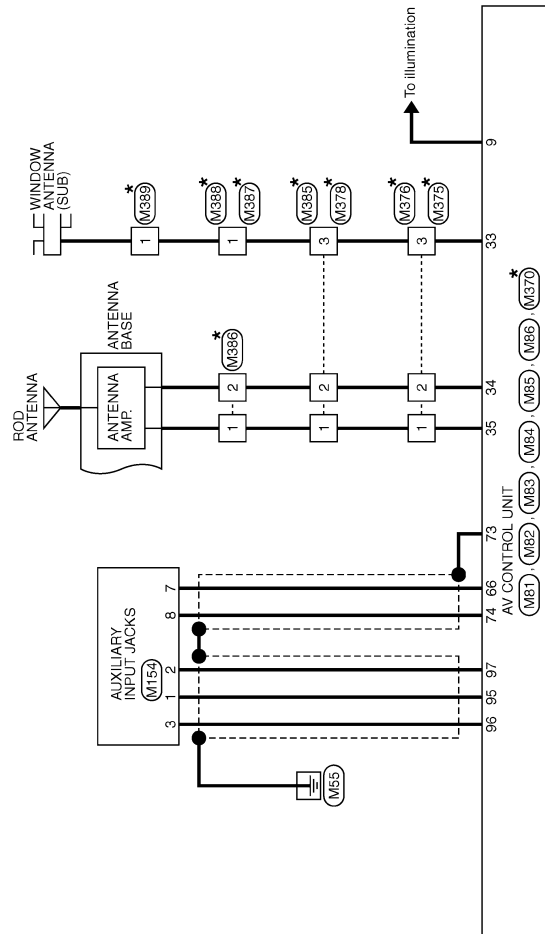
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IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]



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

JCNWM0747GI

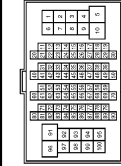
IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

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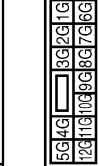
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	L	-
33	LG	-
41	BR	-
42	R	-
43	W	-
46	L	- [With BOSE audio without NAV]
47	P	- [With BOSE audio without NAV]
48	V	-
57	BR	-
58	Y	-

Connector No.	BB
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBF-CS

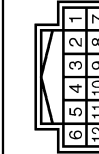


Terminal No.	Color of Wire	Signal Name [Specification]
12G	GR	-

59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
90	O	-

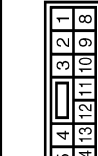
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
8	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH

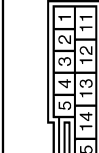


Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	-
6	W	-

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



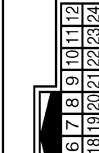
Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
18	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

15	LG	-
16	P	-

Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH2MMV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	W	- [Without around view monitor]
16	B	- [Without around view monitor]
17	R	- [Without around view monitor]

JCNWM0748GI

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IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FBR-SG44

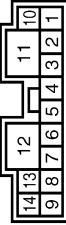


Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (+)
17	O	MODE CHANGE SIGNAL
18	P	SOUND SIGNAL FRONT LH (+)
19	R	SOUND SIGNAL FRONT RH (+)
20	G	SOUND SIGNAL FRONT LH (-)
21	V	SOUND SIGNAL REAR LH (+)
22	SB	SOUND SIGNAL REAR LH (-)
23	BR	SOUND SIGNAL REAR RH (+)
25	GR	WOOFER AMP. ON SIGNAL
27	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (-)

Connector No.	B48
Connector Name	REAR SQUAWKER LH
Connector Type	TK02FBR



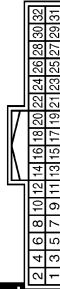
31	W	AMP. ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	BR	SOUND SIGNAL FRONT SQUAWKER RH (+)



Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA12FBR-SU42

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (-)
3	V	SOUND SIGNAL REAR DOOR RH (+)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
6	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL WOOFER (+)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

Connector No.	B50
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH32FW-NH



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

Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	W	CAMERA IMAGE SIGNAL
7	B	CAMERA GND
8	R	CAMERA POWER SUPPLY
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
14	W	CONNECTION RECOGNITION
17	R	AV COMM. LH [With BOSE audio without NAVI]
18	G	AV COMM. RH [With BOSE audio without NAVI]
19	P	AV COMM. LH [With BOSE audio without NAVI]
20	L	AV COMM. RH [With BOSE audio without NAVI]

12	B	GND
13	Y	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)
14	R	SOUND SIGNAL WOOFER (-)



Connector No.	B51
Connector Name	WOOFER
Connector Type	RS08FGY-PR



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	W	BATTERY

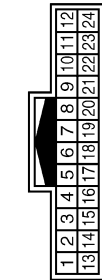
IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
11	G	
13	L	
14	W	
23	R	

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH8GFW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
34	G	
35	R	
40	Y	
41	LG	
42	W	
43	B	
44	R	
45	W	
46	SHIELD	
47	G	
48	Y	

Connector No.	B230
Connector Name	REAR SQUAWKER RH
Connector Type	TK02FBR



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

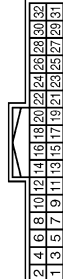
49	SHIELD	
50	P	
77	Y	
78	L	
79	G	
83	V	
84	SHIELD	
85	P	
86	SHIELD	
87	G	
88	W	
89	R	
90	B	
99	O	
100	L	

Terminal No.	Color of Wire	Signal Name [Specification]
16	L	
17	O	



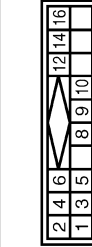
Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NSS

Connector No.	B237
Connector Name	TEL ADAPTER UNIT
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	BATTERY
2	LG	ACC
3	W	IGNITION
4	B	GND
5	SHIELD	
6	SHIELD	
7	B	MICROPHONE SIGNAL
8	R	MICROPHONE GND
9	Y	TEL VOICE SIGNAL (+)
10	G	TEL VOICE SIGNAL (-)
14	B	GND

Connector No.	B238
Connector Name	SATELLITE RADIO TUNER
Connector Type	A18FW



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

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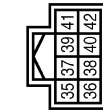
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[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B238
Connector Name	TEL ADAPTER UNIT
Connector Type	TH8BFW-NH



Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
35	L	AV COMM (H)
36	P	AV COMM (L)

Terminal No.	Color of Wire	Signal Name [Specification]
11	L	-
13	L	-
14	W	-
23	P	-

Connector No.	B471
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-IS-HU



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

Connector No.	B481
Connector Name	SATELLITE RADIO TUNER
Connector Type	FAK8A



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

Connector No.	B462
Connector Name	WIRE TO WIRE
Connector Type	GT16C-IS-HU



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

Connector No.	B491
Connector Name	WIRE TO WIRE
Connector Type	GT16C-IPP-HU



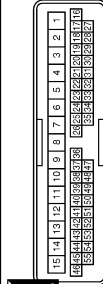
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	B482
Connector Name	ANTENNA BASE
Connector Type	GT16C-IPP-HU



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
5	L	-

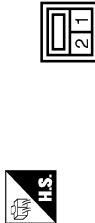
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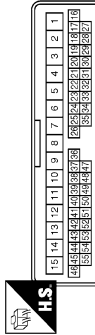
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)
Connector Type	NS2ZFBF-CS



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

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH4QFY-CS15



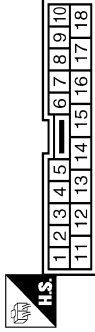
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	BR	-

Connector No.	D34
Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)
Connector Type	NS2ZFBF-CS



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

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



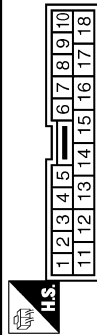
Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

Connector No.	D56
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS2ZFBF-CS



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

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



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

Connector No.	D78
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS2ZFBF-CS



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

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	Y	-
16	L	- [Without around view monitor]
17	G	- [Without around view monitor]

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IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

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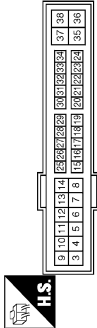
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	D121
Connector Name	REAR VIEW CAMERA
Connector Type	TH04MW-NH



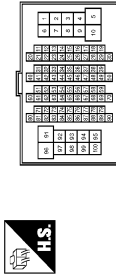
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	CAMERA POWER SUPPLY
2	L	CAMERA GND
3	Y	CAMERA IMAGE SIGNAL
4	SHIELD	SHIELD

Connector No.	E5
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-1V



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

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH02FW-CS16-TM4



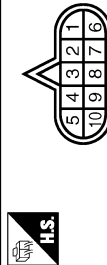
Terminal No.	Color of Wire	Signal Name [Specification]
59	O	-
84	G	-
93	Y	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TE01FW



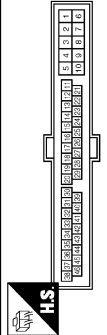
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



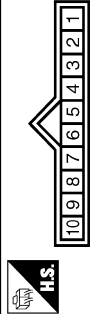
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK30FW-NS10



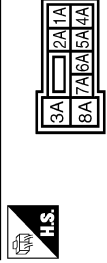
Terminal No.	Color of Wire	Signal Name [Specification]
31	R	-

Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FBGY



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS00FW-M2



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

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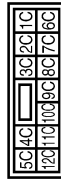
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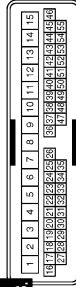
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12PW-CS



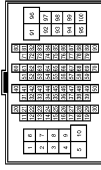
Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
4	P	-
5	L	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
59	V	-
84	G	-
83	Y	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	Y	-
33	V	-
41	BR	-
42	R	-
43	W	-
46	L	- [With BOSE audio without NAV]
47	P	- [With BOSE audio without NAV]
48	V	-
57	BR	-
58	Y	-

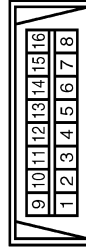
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SP	-
67	SP	-
68	SP	-
69	SHIELD	-
70	V	-
90	O	-

Connector No.	M13
Connector Name	FRONT SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

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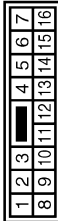
IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	HS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	V	-
4	LG	-
5	Y	-
6	G	-
7	L	-
11	V	-
12	SB	-
13	Y	-
14	Y	-

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Terminal No.	I5	LG
Terminal No.	I6	P

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-IV



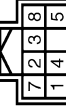
Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
31	L	-
33	B	-

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

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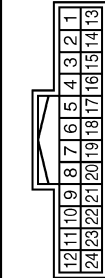
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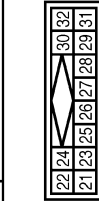
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M71
Connector Name	DISPLAY UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	INVERTER VCC
3	O	SIGNAL VCC
4	V	COMPOSITE IMAGE GND
5	Y	SHIELD
6	Y	RGB (G: GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (YS) SIGNAL
11	Y	COMM (CONT->DISP)
13	BR	INVERTER GND

Connector No.	M82
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	A12FW



Terminal No.	Color of Wire	Signal Name [Specification]
21	W	SATELLITE SOUND SIGNAL LH (-)
22	B	SATELLITE SOUND SIGNAL LH (+)
23	R	SATELLITE SOUND SIGNAL RH (-)
24	G	SATELLITE SOUND SIGNAL RH (+)
25	SHIELD	SHIELD
26	SHIELD	SHIELD
27	SB	MODE CHANGE SIGNAL
28	W	REQUEST (SAT->CONT)
29	B	COMM (SAT->CONT)
30	R	COMM (CONT->SAT)

14	LG	SIGNAL GND
15	SB	COMPOSITE IMAGE SIGNAL
17	G	RGB (B: RED) SIGNAL
18	P	RGB (B: BLUE) SIGNAL
19	W	RGB SYNC
20	G	VP
21	SHIELD	SHIELD
22	BR	COMM (DISP->CONT)
23	SHIELD	SHIELD

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	V	AGC
6	LG	AV COMM (H)
8	V	AV COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL

Terminal No.	Color of Wire	Signal Name [Specification]
47	O	SIGNAL VCC
49	Y	SHIELD
50	SHIELD	SHIELD
55	SHIELD	SHIELD
56	Y	COMM (CONT->DISP)
57	G	VP
58	BR	INVERTER GND
59	Y	INVERTER VCC

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
6	P	STRG SW A
7	V	AGC
9	R	ILLUMINATION
15	B	STRG SW GND
18	L	STRG SW B
19	Y	BATTERY
20	B	GND

Connector No.	M84
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
64	SHIELD	SHIELD
65	W	CAMERA IMAGE SIGNAL
66	G	AUX IMAGE SIGNAL
68	W	CONNECTION RECOGNITION
73	SHIELD	SHIELD
74	R	AUX IMAGE GND

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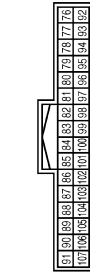
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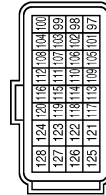
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M85
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH22FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
79	P	TEL VOICE SIGNAL (-)
80	L	TEL VOICE SIGNAL (+)
81	SHIELD	SHIELD
82	G	iPod SOUND SIGNAL RH (-)
83	B	iPod SOUND SIGNAL RH (+)
84	B	GND
85	L	CAN-H
86	P	CAN-L
87	LG	AV COMM (H)
88	V	AV COMM (L)
90	L	AV COMM (H) [Without rear view monitor]

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-R26-R-LH-Z

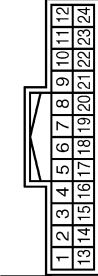


Terminal No.	Color of Wire	Signal Name [Specification]
114	L	VEHCAN-L1
113	P	VEHCAN-H1

90	G	AV COMM (H) [With rear view monitor]
91	P	AV COMM (L) [Without rear view monitor]
91	R	AV COMM (L) [With rear view monitor]
95	B	AUX SOUND SIGNAL RH (+)
96	R	AUX SOUND SIGNAL LH (+)
97	W	AUX SOUND SIGNAL GND
98	W	iPod SOUND SIGNAL LH (-)
99	R	iPod SOUND SIGNAL LH (+)
101	BR	SW GND
103	SB	DISK EJECT SIGNAL
104	G	IGNITION
105	O	REVERSE
106	V	PARKING BRAKE
107	R	VEHICLE SPEED (8-PULSE)

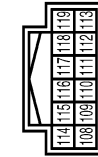
Terminal No.	Color of Wire	Signal Name [Specification]
108	BR	SOUND SIGNAL REAR RH (+)
109	R	SOUND SIGNAL FRONT RH (+)
110	V	AMP_ON SIGNAL
111	SHIELD	SHIELD
112	V	SOUND SIGNAL REAR LH (+)
113	P	SOUND SIGNAL FRONT LH (+)
114	Y	SOUND SIGNAL REAR RH (-)
115	G	SOUND SIGNAL FRONT RH (-)
118	SB	SOUND SIGNAL REAR LH (-)
119	L	SOUND SIGNAL FRONT LH (-)

Connector No.	M111
Connector Name	iPOD ADAPTER
Connector Type	TH24FW-NH



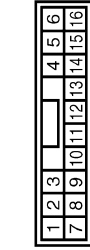
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod->iPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	R	iPod SOUND SIGNAL RH (+)
13	W	iPod SOUND SIGNAL LH (-)

Connector No.	M86
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
108	BR	SOUND SIGNAL REAR RH (+)
109	R	SOUND SIGNAL FRONT RH (+)
110	V	AMP_ON SIGNAL
111	SHIELD	SHIELD
112	V	SOUND SIGNAL REAR LH (+)
113	P	SOUND SIGNAL FRONT LH (+)
114	Y	SOUND SIGNAL REAR RH (-)
115	G	SOUND SIGNAL FRONT RH (-)
118	SB	SOUND SIGNAL REAR LH (-)
119	L	SOUND SIGNAL FRONT LH (-)

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	iP18FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	W	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	R	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	FK10MM-NSS



Terminal No.	Color of Wire	Signal Name [Specification]
2	B	- [Without NAVI]
3	W	- [Without NAVI]
4	R	- [Without NAVI]

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IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

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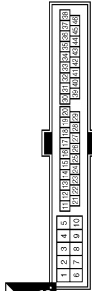
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M114
Connector Name	FRONT SQUAWKER RH
Connector Type	TK22FBR



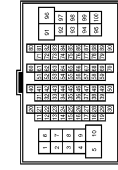
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK38MP-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
31	W	-

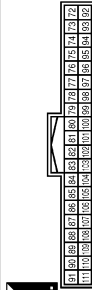
Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH82MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
34	LG	-
35	V	-
40	Y	-
41	G	-
42	O	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	P	-
48	L	-

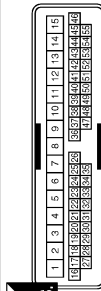
49	SHIELD	-
50	V	-
77	Y	-
78	W	-
79	B	-
83	V	-
84	SHIELD	-
85	R	-
86	SHIELD	-
87	W	-
88	R	-
89	B	-
90	G	-
99	V	- [With BOSE audio]
100	SB	- [With BOSE audio]

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	LG	-

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	-
6	W	-

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AUBFW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	AUX SOUND SIGNAL RH (+)
2	W	AUX SOUND SIGNAL GND
3	R	AUX SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

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IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK0BE GY



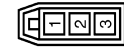
Terminal No.	Color of Wire	Signal Name [Specification]
14	W	-
15	L	-
17	BR	-

Connector No.	M370
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	GT13SH-2/1S-HU



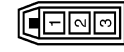
Terminal No.	Color of Wire	Signal Name [Specification]
33	-	FM SUB
34	-	AM-FM MAIN
35	-	ANTENNA AMP. ON SIGNAL

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



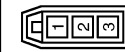
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU



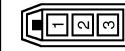
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M386
Connector Name	ANTENNA BASE
Connector Type	GT13SSN-1/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP. ON SIGNAL
2	-	AM-FM MAIN

Connector No.	M387
Connector Name	WIRE TO WIRE
Connector Type	JA50 JACK



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

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IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M388
Connector Name	WIRE TO WIRE
Connector Type	JASO PLUG



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M389
Connector Name	WINDOW ANTENNA (SUB)
Connector Type	FO1FB-A



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TK0FW-NSB



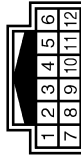
Terminal No.	Color of Wire	Signal Name [Specification]
2	G	- [Without NAV]
3	Y	- [Without NAV]
4	SHIELD	-

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	- [Without NAV]
5	Y	- [Without NAV]

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	-
5	R	-

Connector No.	R17
Connector Name	MICROPHONE
Connector Type	TK04FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
4	R	MICROPHONE VCC

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CAMERA CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

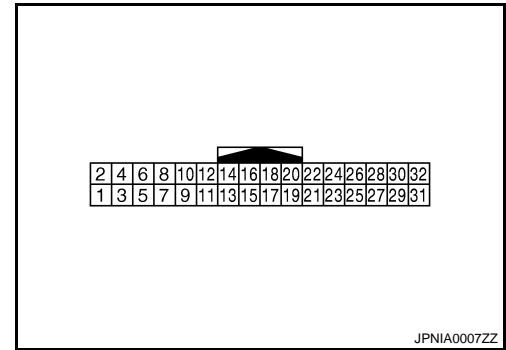
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CAMERA CONTROL UNIT

Reference Value

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TERMINAL LAYOUT



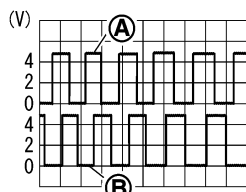
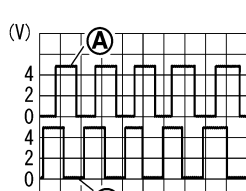
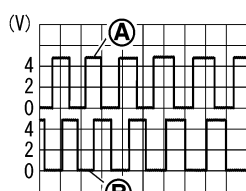
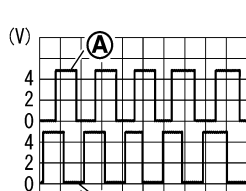
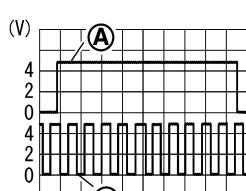
PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
5	—	Shield	—	—	—	—
6 (W)	Ground	Camera image signal	Input	Ignition switch ON	At rear view camera image display	
7 (B)	Ground	Camera ground	—	Ignition switch ON	—	0 V
8 (R)	Ground	Camera power supply	Output	Ignition switch ON	R position	6.0 V
					Other than R position	0 V
11	—	Shield	—	—	—	—
12 (W)	Ground	Camera image signal	Output	Ignition switch ON	At rear view camera image display	
14 (W)	Ground	Camera-connection recog- nition signal	—	Ignition switch ON	Connected to camera con- trol unit connector	0 V
					Not connected to camera control unit connector	5.0 V
17 (R)	—	AV communication signal (L)	Input/ Output	—	—	—
18 (G)	—	AV communication signal (H)	Input/ Output	—	—	—
19 (P)	—	AV communication signal (L)	Input/ Output	—	—	—

CAMERA CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
20 (L)	—	AV communication signal (H)	Input/ Output	—	—	—
22 (O)	Ground	Reverse signal	Input	Ignition switch ON	R position	12.0 V
				Ignition switch ON	Other than R position	0 V
23 (L)	Ground	Sensor signal 1	Input	Ignition switch ON	Turn the steering to the right	 <p style="text-align: right;">SKIB3827E</p> <p>A: Sensor signal 1 B: Sensor signal 2</p>
					Turn the steering to the left	 <p style="text-align: right;">SKIB3828E</p> <p>A: Sensor signal 1 B: Sensor signal 2</p>
24 (BR)	Ground	Sensor signal 2	Input	Ignition switch ON	Turn the steering to the right	 <p style="text-align: right;">SKIB3827E</p> <p>A: Sensor signal 1 B: Sensor signal 2</p>
					Turn the steering to the left	 <p style="text-align: right;">SKIB3828E</p> <p>A: Sensor signal 1 B: Sensor signal 2</p>
25 (R)	Ground	Sensor signal 3	Input	Ignition switch ON	Turn the steering around the neutral position	 <p style="text-align: right;">SKIB3829E</p> <p>A: Sensor signal 3 B: Sensor signal 1</p>

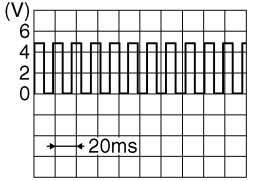
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AV

CAMERA CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
26 (V)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is ap- prox. 40 km/h (25 MPH)	<p>NOTE: Maximum voltage may be 12 V due to specifications (connected units).</p>  <p style="text-align: right; font-size: small;">SKIA6649J</p>
30 (LG)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
31 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
32 (L)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage

Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

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Click here to view the eWD.

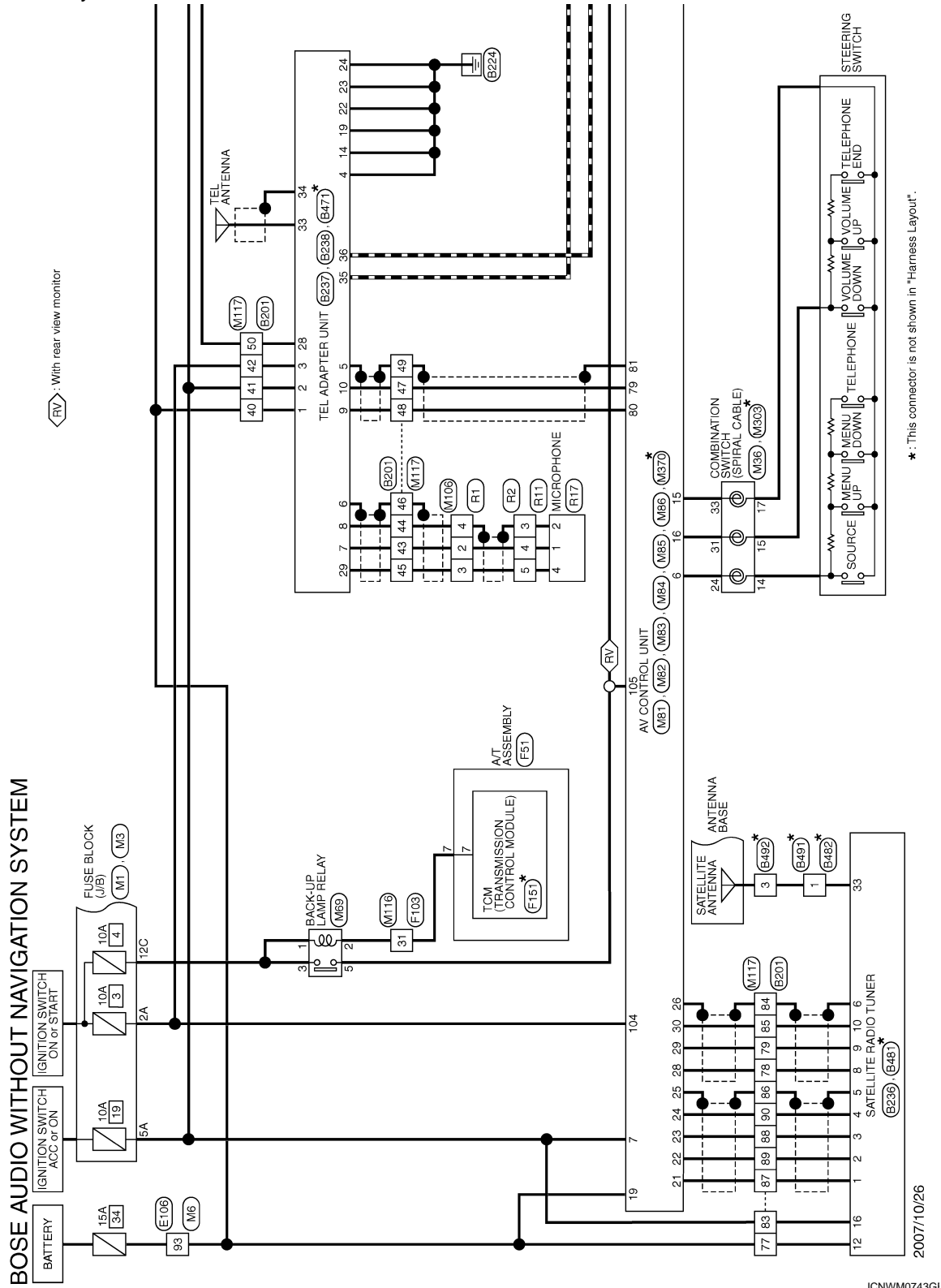
NOTE:

CAMERA CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.



* : This connector is not shown in "Harness Layout".

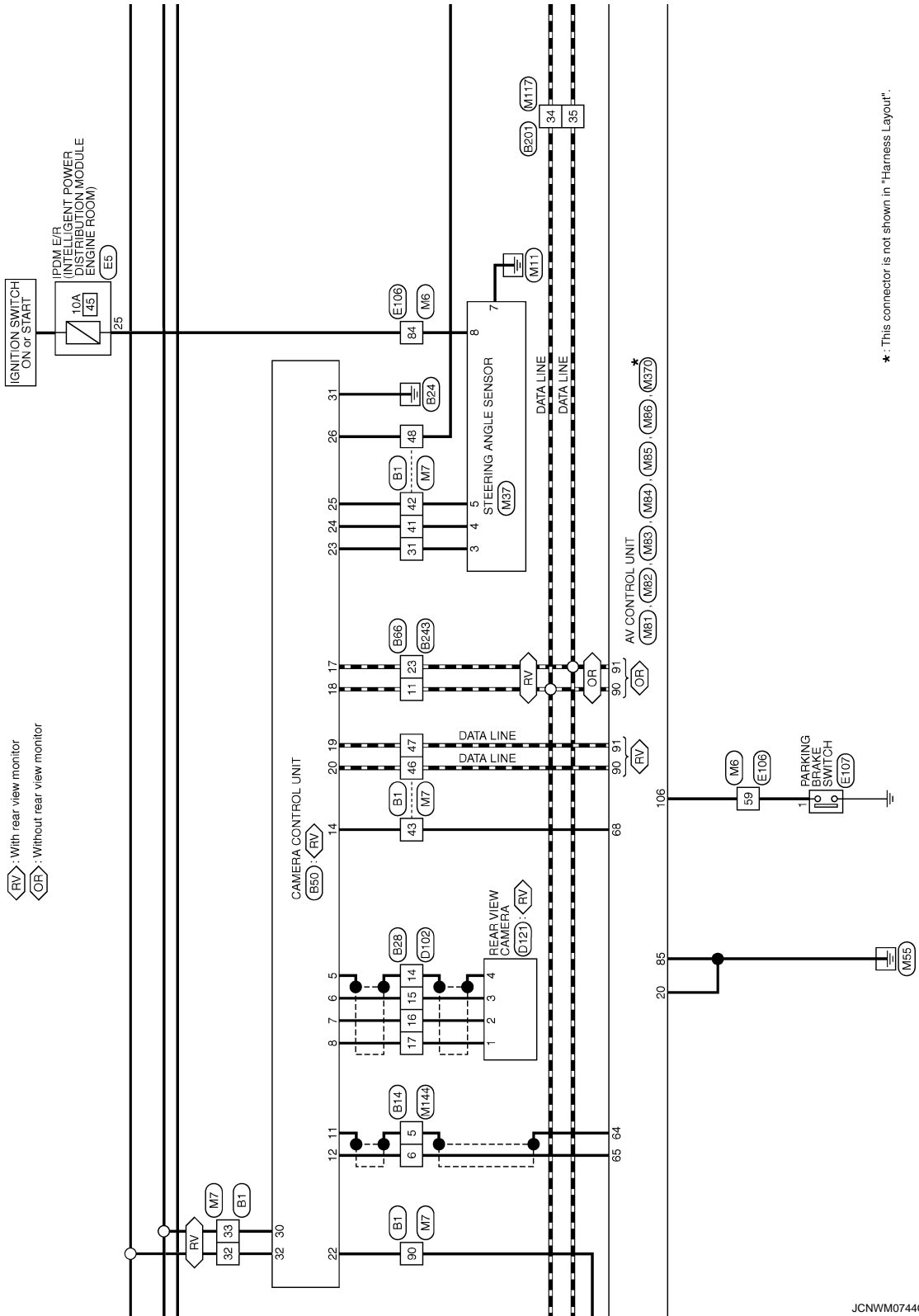
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CAMERA CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

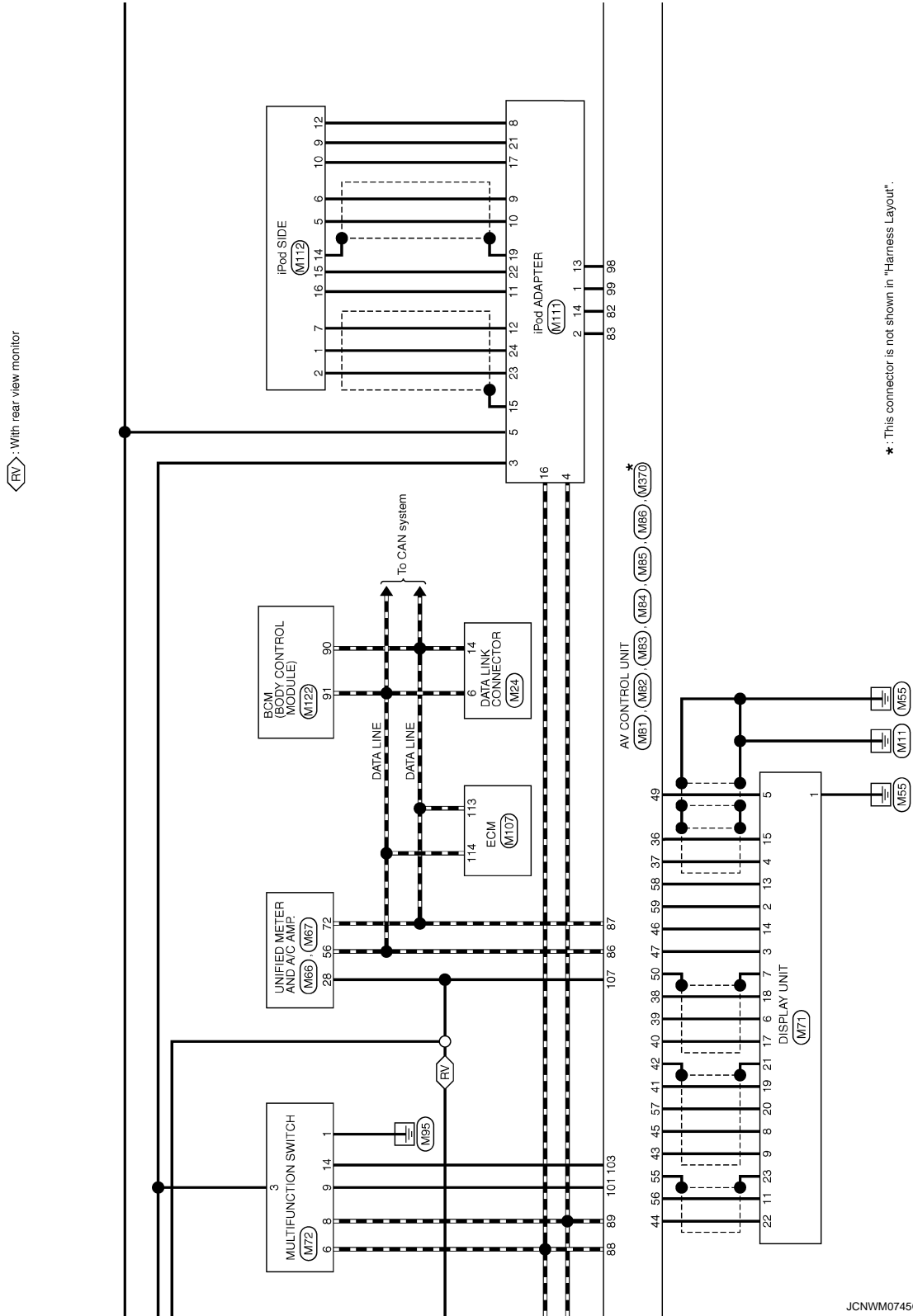
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CAMERA CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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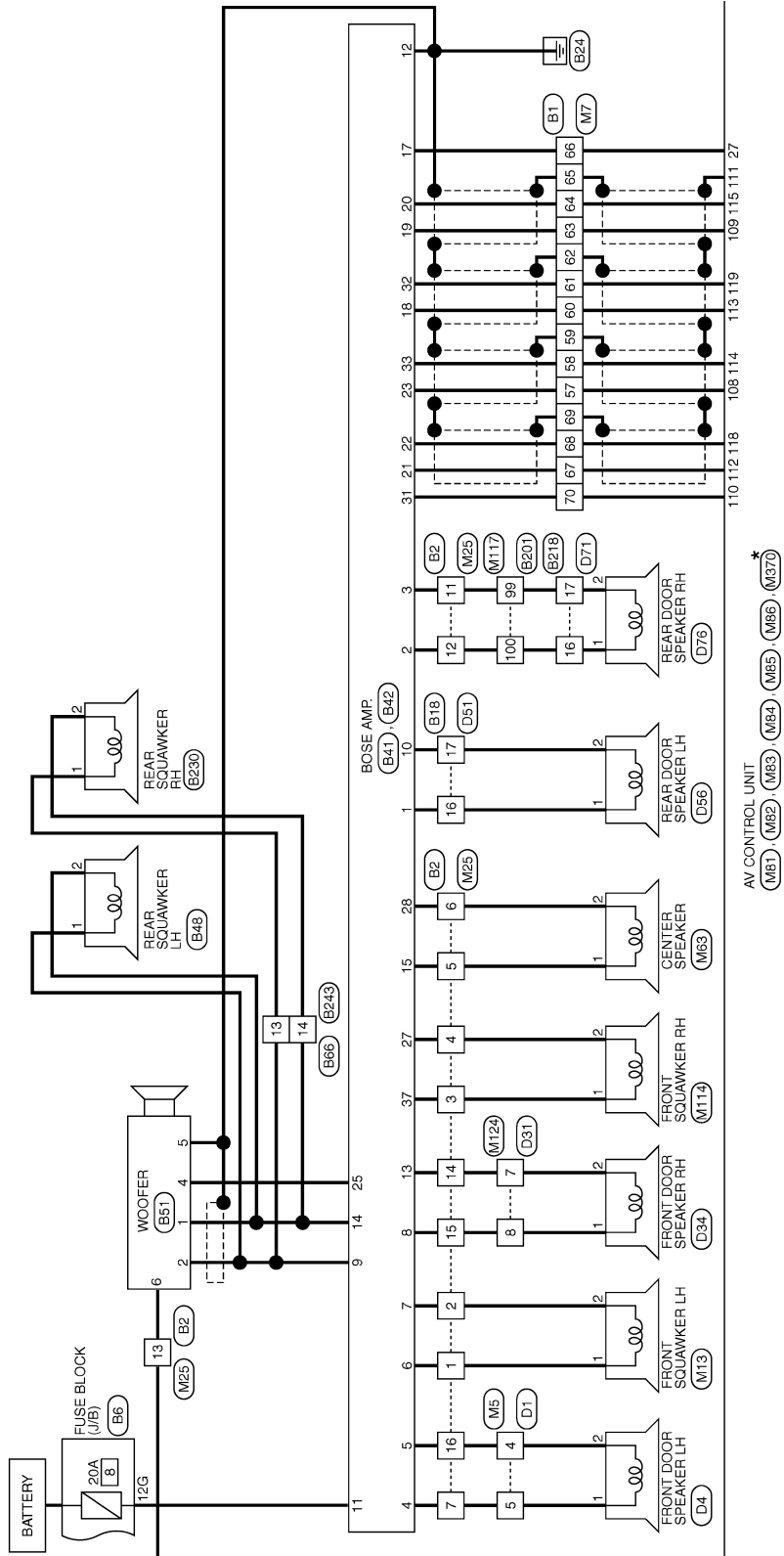
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[BOSE AUDIO WITHOUT NAVIGATION]

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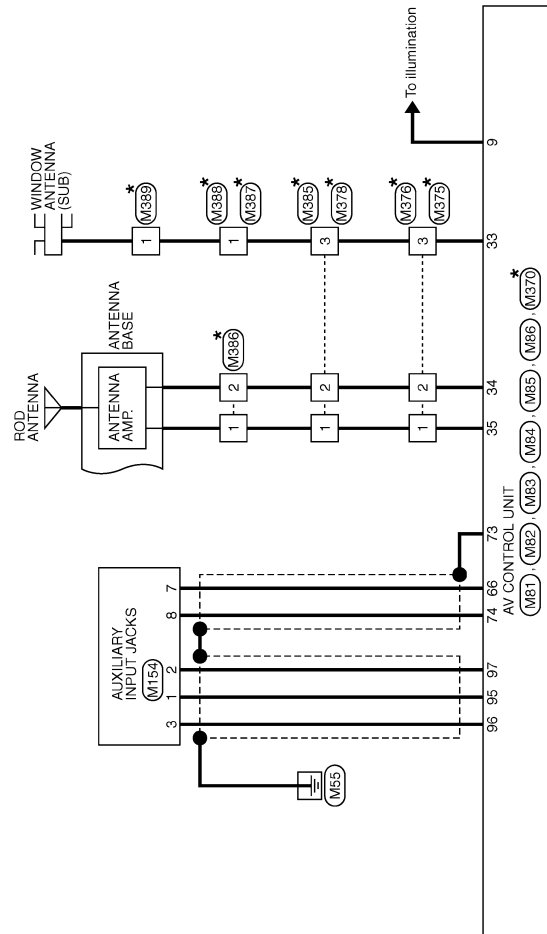
*: This connector is not shown in "Harness Layout".

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[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >



*: This connector is not shown in "Harness Layout".

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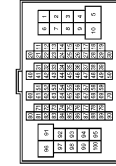
CAMERA CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	L	-
33	LG	-
41	BR	-
42	R	-
43	W	-
45	L	[With BOSE audio without NAV]
47	P	[With BOSE audio without NAV]
48	V	-
57	BR	-
58	Y	-

Connector No.	B8
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12G	GR	-

59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
90	O	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
6	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	-
6	W	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

15	LG	-
16	P	-

Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MY-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	W	- [Without around view monitor]
16	B	- [Without around view monitor]
17	R	- [Without around view monitor]

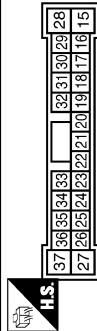
CAMERA CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA1PFR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (+)
17	O	MODE CHANGE SIGNAL
18	P	SOUND SIGNAL FRONT LH (+)
19	R	SOUND SIGNAL FRONT RH (+)
20	G	SOUND SIGNAL FRONT LH (-)
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	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (-)

Connector No.	B48
Connector Name	REAR SQUAWKER LH
Connector Type	TK02FBR



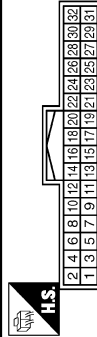
31	W	AMP. ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	BR	SOUND SIGNAL FRONT SQUAWKER RH (+)



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (-)
3	V	SOUND SIGNAL REAR DOOR RH (+)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
8	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL WOOFER (+)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

22	O	REVERSE
23	L	SENSOR SIGNAL 1
24	BR	SENSOR SIGNAL 2
25	R	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	L	BATTERY

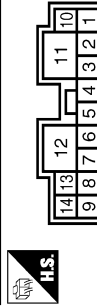
Connector No.	B50
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH43FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	W	CAMERA IMAGE SIGNAL
7	B	CAMERA GND
8	R	CAMERA POWER SUPPLY
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
14	W	CONNECTION RECOGNITION
17	R	AV COMM. (L) (With BOSE audio without NAVI)
18	G	AV COMM. (H) (With BOSE audio without NAVI)
19	P	AV COMM. (L) (With BOSE audio without NAVI)
20	L	AV COMM. (H) (With BOSE audio without NAVI)

12	B	GND
13	Y	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)
14	R	SOUND SIGNAL WOOFER (-)

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SCA1PFR-SJA2



Connector No.	B51
Connector Name	WOOFER
Connector Type	RS08FGY-PR



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	W	BATTERY

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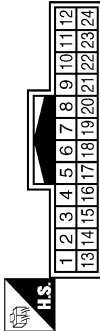
CAMERA CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

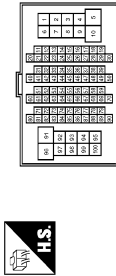
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
11	G	-
13	L	-
14	W	-
23	R	-

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH82FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
34	G	-
35	R	-
40	Y	-
41	LG	-
42	W	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	G	-
48	Y	-

Connector No.	B230
Connector Name	REAR SQUAWKER RH
Connector Type	TK02FBR

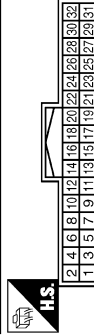


Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Terminal No.	Color of Wire	Signal Name [Specification]
49	SHIELD	-
50	P	-
77	Y	-
78	L	-
79	G	-
83	V	-
84	SHIELD	-
85	P	-
88	SHIELD	-
87	G	-
89	W	-
89	R	-
90	B	-
99	O	- [With BOSE audio]
100	L	-

Terminal No.	Color of Wire	Signal Name [Specification]
16	L	-
17	O	- [With BOSE audio]

Connector No.	B237
Connector Name	TEL ADAPTER UNIT
Connector Type	TH22FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	BATTERY
2	LG	ACC
3	W	IGNITION
4	B	GND
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	B	MICROPHONE SIGNAL
8	R	MICROPHONE GND
9	Y	TEL VOICE SIGNAL (+)
10	G	TEL VOICE SIGNAL (-)
14	B	GND

Terminal No.	Color of Wire	Signal Name [Specification]
19	B	GND
22	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
28	P	VEHICLE SPEED (8-PULSE)
29	W	MICROPHONE VCC
















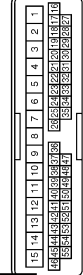
JCNWM0750GI

CAMERA CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No. B238	TEL ADAPTER UNIT	TH8BFV-IN1			Terminal No. 35 36	Color of Wire L P	Signal Name [Specification] AV COMM (H) AV COMM (L)
Connector No. B243	WIRE TO WIRE	TH24FV-NH			Terminal No. 11 13 14 23	Color of Wire L L W P	Signal Name [Specification] - - - -
Connector No. B471	TEL ADAPTER UNIT	GT16C-1S-HU			Terminal No. 33 34	Color of Wire - SHIELD	Signal Name [Specification] TEL ANTENNA SHIELD
Connector No. B481	SATELLITE RADIO TUNER	FAKSA			Terminal No. 33	Color of Wire -	Signal Name [Specification] SATELLITE ANTENNA
Connector No. B491	WIRE TO WIRE	GT16C-1PP-HU			Terminal No. 1 2	Color of Wire - -	Signal Name [Specification] - -
Connector No. B492	WIRE TO WIRE	GT16C-1S-HU			Terminal No. 1 2	Color of Wire - -	Signal Name [Specification] - -
Connector No. B482	ANTENNA BASE	GT16C-1PP-HU			Terminal No. 3	Color of Wire -	Signal Name [Specification] SAETLLITE ANTENNA
Connector No. D1	WIRE TO WIRE	TH4DFW-CS15			Terminal No. 1 2 3 4 5	Color of Wire W L	Signal Name [Specification] - -

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CAMERA CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

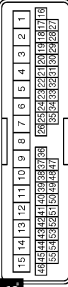
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)
Connector Type	NS02FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TK14QFW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	BR	-

Connector No.	D34
Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)
Connector Type	NS02FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	R	-

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

Connector No.	D56
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS02FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
16	L	-
17	Y	-

Connector No.	D76
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS02FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	Y	-
16	L	- [Without around view monitor]
17	G	- [Without around view monitor]



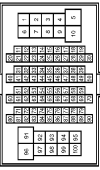
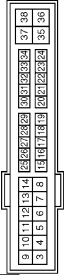
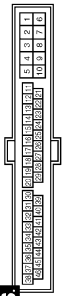
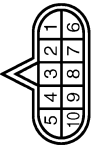

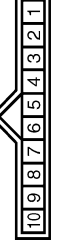
JCNWM0752GI

CAMERA CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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Connector No.	D121																																
Connector Name	REAR VIEW CAMERA																																
Connector Type	TH8AW-NH																																
Terminal No.	1																																
Color of Wire	G																																
Signal Name [Specification]	CAMERA POWER SUPPLY																																
Terminal No.	2																																
Color of Wire	L																																
Signal Name [Specification]	CAMERA GND																																
Terminal No.	3																																
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Signal Name [Specification]	CAMERA IMAGE SIGNAL																																
Terminal No.	4																																
Color of Wire	SHIELD																																
Signal Name [Specification]	SHIELD																																
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Connector No.	E107																																
Connector Name	PARKING BRAKE SWITCH																																
Connector Type	TE01FW																																
Terminal No.	1																																
Color of Wire	O																																
Signal Name [Specification]																																	
<table border="1"> <tr><td>Connector No.</td><td>E106</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH80FW-CS16-TM4</td></tr> </table> 	Connector No.	E106	Connector Name	WIRE TO WIRE	Connector Type	TH80FW-CS16-TM4	<table border="1"> <tr><td>Terminal No.</td><td>59</td></tr> <tr><td>Color of Wire</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> <tr><td>Terminal No.</td><td>84</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> <tr><td>Terminal No.</td><td>83</td></tr> <tr><td>Color of Wire</td><td>Y</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	59	Color of Wire	O	Signal Name [Specification]		Terminal No.	84	Color of Wire	G	Signal Name [Specification]		Terminal No.	83	Color of Wire	Y	Signal Name [Specification]									
Connector No.	E106																																
Connector Name	WIRE TO WIRE																																
Connector Type	TH80FW-CS16-TM4																																
Terminal No.	59																																
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Terminal No.	83																																
Color of Wire	Y																																
Signal Name [Specification]																																	
<table border="1"> <tr><td>Connector No.</td><td>E5</td></tr> <tr><td>Connector Name</td><td>IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)</td></tr> <tr><td>Connector Type</td><td>TH20FW-CS12-M4-1V</td></tr> </table> 	Connector No.	E5	Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Type	TH20FW-CS12-M4-1V	<table border="1"> <tr><td>Terminal No.</td><td>25</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	25	Color of Wire	G	Signal Name [Specification]																					
Connector No.	E5																																
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)																																
Connector Type	TH20FW-CS12-M4-1V																																
Terminal No.	25																																
Color of Wire	G																																
Signal Name [Specification]																																	
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Connector No.	F103																																
Connector Name	WIRE TO WIRE																																
Connector Type	TK30FW-NS10																																
Terminal No.	31																																
Color of Wire	R																																
Signal Name [Specification]																																	
<table border="1"> <tr><td>Connector No.</td><td>F51</td></tr> <tr><td>Connector Name</td><td>A/T ASSEMBLY</td></tr> <tr><td>Connector Type</td><td>RK10FG-DGY</td></tr> </table> 	Connector No.	F51	Connector Name	A/T ASSEMBLY	Connector Type	RK10FG-DGY	<table border="1"> <tr><td>Terminal No.</td><td>7</td></tr> <tr><td>Color of Wire</td><td>R</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	7	Color of Wire	R	Signal Name [Specification]																					
Connector No.	F51																																
Connector Name	A/T ASSEMBLY																																
Connector Type	RK10FG-DGY																																
Terminal No.	7																																
Color of Wire	R																																
Signal Name [Specification]																																	
<table border="1"> <tr><td>Connector No.</td><td>M1</td></tr> <tr><td>Connector Name</td><td>FUSE BLOK (J/B)</td></tr> <tr><td>Connector Type</td><td>NS00FW-M2</td></tr> </table> 	Connector No.	M1	Connector Name	FUSE BLOK (J/B)	Connector Type	NS00FW-M2	<table border="1"> <tr><td>Terminal No.</td><td>2A</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> <tr><td>Terminal No.</td><td>5A</td></tr> <tr><td>Color of Wire</td><td>V</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	2A	Color of Wire	G	Signal Name [Specification]		Terminal No.	5A	Color of Wire	V	Signal Name [Specification]															
Connector No.	M1																																
Connector Name	FUSE BLOK (J/B)																																
Connector Type	NS00FW-M2																																
Terminal No.	2A																																
Color of Wire	G																																
Signal Name [Specification]																																	
Terminal No.	5A																																
Color of Wire	V																																
Signal Name [Specification]																																	
<table border="1"> <tr><td>Connector No.</td><td>F151</td></tr> <tr><td>Connector Name</td><td>TCM (TRANSMISSION CONTROL MODULE)</td></tr> <tr><td>Connector Type</td><td>SP10FBGY</td></tr> </table> 	Connector No.	F151	Connector Name	TCM (TRANSMISSION CONTROL MODULE)	Connector Type	SP10FBGY	<table border="1"> <tr><td>Terminal No.</td><td>7</td></tr> <tr><td>Color of Wire</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td>REV LAMP RLY</td></tr> </table>	Terminal No.	7	Color of Wire	O	Signal Name [Specification]	REV LAMP RLY																				
Connector No.	F151																																
Connector Name	TCM (TRANSMISSION CONTROL MODULE)																																
Connector Type	SP10FBGY																																
Terminal No.	7																																
Color of Wire	O																																
Signal Name [Specification]	REV LAMP RLY																																

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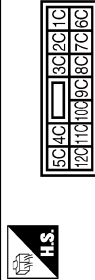
CAMERA CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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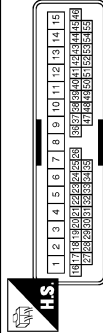
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	HS12FW-CS



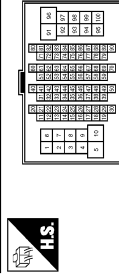
Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



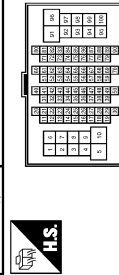
Terminal No.	Color of Wire	Signal Name [Specification]
4	P	-
5	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS18-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
59	V	-
84	G	-
93	Y	-

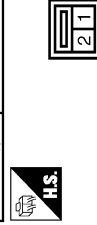
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS18-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	Y	-
33	V	-
41	BR	-
42	R	-
43	W	-
46	L	- [With BOSE audio without NAV]
47	P	- [With BOSE audio without NAV]
48	V	-
57	BR	-
58	Y	-

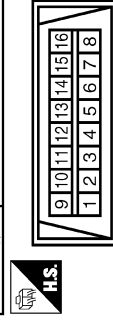
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SR	-
67	V	-
68	SR	-
69	SHIELD	-
70	V	-
90	O	-

Connector No.	M13
Connector Name	FRONT SOUAVNER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

JCNWM0754GI


CAMERA CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM


Connector No.	M25	LG	
Connector Name	WIRE TO WIRE	P	
Connector Type	NS16MW-CS		



Terminal No.	1	L	
2	W		
3	V		
4	LG		
5	Y		
6	G		
7	L		
11	V		
12	SB		
13	Y		
14	Y		


Terminal No.	Signal Name [Specification]
1	
2	
3	
4	
5	
6	
7	
11	
12	
13	
14	

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN


Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-IV



Terminal No.	Color of Wire	Signal Name [Specification]
24	P	
31	L	
33	B	

Terminal No.	Signal Name [Specification]
24	
31	
33	


Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN

Terminal No.	Signal Name [Specification]
3	
4	
5	
7	
8	

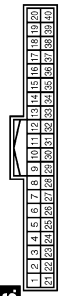
Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	
1	Y	

Terminal No.	Signal Name [Specification]
2	
1	

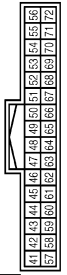
Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Terminal No.	Signal Name [Specification]
28	


Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Terminal No.	Signal Name [Specification]
56	
72	

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	
2	W	
3	LG	
5	O	

Terminal No.	Signal Name [Specification]
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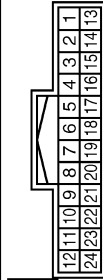
CAMERA CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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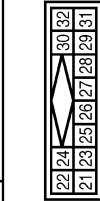
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M71
Connector Name	DISPLAY UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	INVERTER VCC
3	O	SIGNAL VCC
4	V	COMPOSITE IMAGE GND
5	Y	SHIELD
6	L	RGB (G: GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (YS) SIGNAL
11	Y	COMM (CONT->DISP)
13	BR	INVERTER GND

Connector No.	M82
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	A12FW



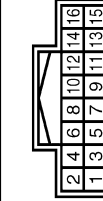
Terminal No.	Color of Wire	Signal Name [Specification]
21	W	SATELLITE SOUND SIGNAL LH (-)
22	B	SATELLITE SOUND SIGNAL LH (+)
23	R	SATELLITE SOUND SIGNAL RH (-)
24	G	SATELLITE SOUND SIGNAL RH (+)
25	SHIELD	SHIELD
26	SHIELD	SHIELD
27	SB	MODE CHANGE SIGNAL
28	W	REQUEST (SAT->CONT)
29	B	COMM (SAT->CONT)
30	R	COMM (CONT->SAT)

14	LG	SIGNAL GND
15	SB	COMPOSITE IMAGE SIGNAL
17	G	RGB (R: RED) SIGNAL
18	P	RGB (B: BLUE) SIGNAL
19	W	RGB SYNC
20	G	VP
21	SHIELD	SHIELD
22	BR	COMM (DISP->CONT)
23	SHIELD	SHIELD

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	V	ACC
6	LG	AV COMM (H)
8	V	AV COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL

Terminal No.	Color of Wire	Signal Name [Specification]
47	O	SIGNAL VCC
49	Y	SHIELD
50	SHIELD	SHIELD
55	SHIELD	SHIELD
56	Y	COMM (CONT->DISP)
57	G	VP
58	BR	INVERTER GND
59	Y	INVERTER VCC

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
6	P	STRG SW A
7	V	ACC
9	R	ILLUMINATION
15	B	STRG SW GND
16	L	STRG SW B
19	Y	BATTERY
20	B	GND

Connector No.	M84
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
64	SHIELD	SHIELD
65	W	CAMERA IMAGE SIGNAL
66	G	AUX IMAGE SIGNAL
68	W	CONNECTION RECOGNITION
73	SHIELD	SHIELD
74	R	AUX IMAGE GND

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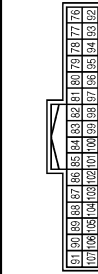
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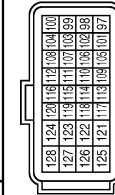
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M85
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH22FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
79	P	TEL VOICE SIGNAL (-)
80	L	TEL VOICE SIGNAL (+)
81	SHIELD	SHIELD
82	G	IPod SOUND SIGNAL RH (-)
83	B	IPod SOUND SIGNAL RH (+)
84	B	GND
85	L	CAN-H
86	P	CAN-L
87	P	AV COMM (H)
88	LG	AV COMM (L)
89	Y	AV COMM (H)
90	L	AV COMM (L) [Without rear view monitor]

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-R28-R-LH-Z



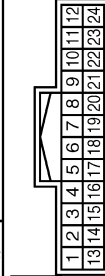
Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-LI
114	L	VEHCAN-HI

90	G	AV COMM (H) [With rear view monitor]
91	P	AV COMM (L) [Without rear view monitor]
91	R	AV COMM (L) [With rear view monitor]
95	B	AUX SOUND SIGNAL RH (+)
96	R	AUX SOUND SIGNAL LH (+)
97	W	AUX SOUND SIGNAL GND
98	W	IPod SOUND SIGNAL LH (-)
99	R	IPod SOUND SIGNAL LH (+)
101	BR	SW GND
103	SB	DISK EJECT SIGNAL
104	G	IGNITION
105	O	REVERSE
106	V	PARKING BRAKE
107	R	VEHICLE SPEED (8-PULSE)

Terminal No.	Color of Wire	Signal Name [Specification]
108	BR	SOUND SIGNAL REAR RH (+)
109	R	SOUND SIGNAL FRONT RH (+)
110	V	AMP_ON SIGNAL
111	SHIELD	SHIELD
112	V	SOUND SIGNAL REAR LH (+)
113	P	SOUND SIGNAL FRONT LH (+)
114	Y	SOUND SIGNAL REAR RH (-)
115	G	SOUND SIGNAL FRONT RH (-)
118	SB	SOUND SIGNAL REAR LH (-)
119	L	SOUND SIGNAL FRONT LH (-)

14	G	IPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	IPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	IPod SOUND SIGNAL GND
24	B	IPod SOUND SIGNAL LH (+)

Connector No.	M111
Connector Name	IPod ADAPTER
Connector Type	TH24FW-NH



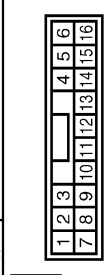
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	IPod SOUND SIGNAL LH (+)
2	B	IPod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (IPod ADAPTER->IPod)
10	L	COMM (IPod->IPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	R	IPod SOUND SIGNAL RH (+)
13	W	IPod SOUND SIGNAL LH (-)

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MFP-NS



Terminal No.	Color of Wire	Signal Name [Specification]
2	B	- [Without NAVI]
3	W	- [Without NAVI]
4	R	- [Without NAVI]

Connector No.	M112
Connector Name	IPod SIDE
Connector Type	IP18FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	IPod SOUND SIGNAL LH (+)
2	W	IPod SOUND SIGNAL GND
5	L	COMM (IPod->IPod ADAPTER)
6	P	COMM (IPod ADAPTER->IPod)
7	R	IPod SOUND SIGNAL RH (+)
9	W	IPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

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CAMERA CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M114
Connector Name	FRONT SQUAWKER RH
Connector Type	TK22FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	— [With BOSE audio]
2	LG	— [With BOSE audio]

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK38MW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
31	W	—

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH20MW-CS18-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
34	LG	—
35	Y	—
40	Y	—
41	G	—
42	O	—
43	B	—
44	R	—
45	W	—
46	SHIELD	—
47	P	—
48	L	—

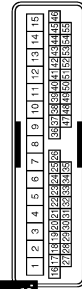
49	SHIELD	—
50	V	—
77	Y	—
78	W	—
79	B	—
83	V	—
84	SHIELD	—
85	R	—
86	SHIELD	—
87	W	—
88	R	—
89	B	—
90	G	—
99	V	— [With BOSE audio]
100	SD	— [With BOSE audio]

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



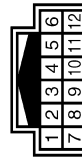
Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	—
8	LG	—

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	—
6	W	—

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	A08FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	AUX SOUND SIGNAL RH (+)
2	W	AUX SOUND SIGNAL GND
3	R	AUX SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

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CAMERA CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >


BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M370	AV CONTROL UNIT (WITHOUT NAVI)
Connector Name	GT15SH-2/1S-HU	
Connector Type		




Terminal No.	Color of Wire	Signal Name [Specification]
33	-	FM SUB
34	-	AM-FM MAIN
35	-	ANTENNA AMP ON SIGNAL

Connector No.	M375	WIRE TO WIRE
Connector Name	GT13SC-2/1S-HU	
Connector Type		



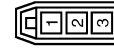
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M376	WIRE TO WIRE
Connector Name	GT13SCN-2/1PP-HU	
Connector Type		




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M378	WIRE TO WIRE
Connector Name	GT13SC-2/1S-HU	
Connector Type		




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M385	WIRE TO WIRE
Connector Name	GT13SCN-2/1PP-HU	
Connector Type		




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M386	ANTENNA BASE
Connector Name	GT13SSN-1/1PP-HU	
Connector Type		



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP ON SIGNAL
2	-	AM-FM MAIN

Connector No.	M387	WIRE TO WIRE
Connector Name	1JASO JACK	
Connector Type		



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

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CAMERA CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >



BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M389	Connector No.	R2
Connector Name	WINDOW ANTENNA (SUB)	Connector Name	WIRE TO WIRE
Connector Type	PRO1FB-A	Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	G	- [Without NAVI]
3	Y	- [Without NAVI]
4	SHIELD	-

Connector No.	M388	Connector No.	R1
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	JASO PLUS	Connector Type	TK10FW-RS8



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	G	- [Without NAVI]
3	Y	- [Without NAVI]
4	SHIELD	-

Connector No.	M387	Connector No.	R17
Connector Name	MICROPHONE	Connector Name	MICROPHONE
Connector Type	TKG4FW	Connector Type	TKG4FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
4	R	MICROPHONE VCC

Connector No.	M386	Connector No.	R11
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH	Connector Type	TH12MW-NH


Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	-
5	R	-

Connector No.	M385	Connector No.	R2
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH	Connector Type	TH12FW-NH






Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	- [Without NAVI]
5	Y	- [Without NAVI]

Connector No.	M384	Connector No.	R1
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	TK10FW-RS8	Connector Type	TK10FW-RS8


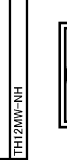
Terminal No.	Color of Wire	Signal Name [Specification]
2	G	- [Without NAVI]
3	Y	- [Without NAVI]
4	SHIELD	-

Connector No.	M383	Connector No.	R17
Connector Name	MICROPHONE	Connector Name	MICROPHONE
Connector Type	TKG4FW	Connector Type	TKG4FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
4	R	MICROPHONE VCC

Connector No.	M382	Connector No.	R11
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH	Connector Type	TH12MW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	-
5	R	-

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SATELLITE RADIO TUNER

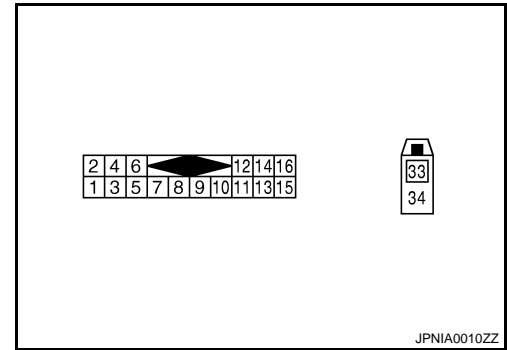
[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

SATELLITE RADIO TUNER

Reference Value

INFOID:000000003528896



PHYSICAL VALUES

Terminal		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/Output			
2 (R)	1 (G)	Satellite radio sound signal LH	Output	Ignition switch ON	When satellite radio mode is selected	<p>SKIB3609E</p>
4 (B)	3 (W)	Satellite radio sound signal RH	Output	Ignition switch ON	When satellite radio mode is selected	<p>SKIB3609E</p>
5	—	Shield	—	—	—	—
6	—	Shield	—	—	—	—
8 (L)	Ground	Request signal (SAT→CONT)	Output	Ignition switch ON	When satellite radio mode is selected	<p>SKIA9299J</p>
9 (P)	Ground	Communication signal (SAT→CONT)	Output	Ignition switch ON	When satellite radio mode is selected	<p>SKIA9300J</p>

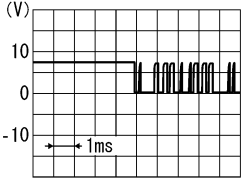
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SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

Terminal		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
10 (G)	Ground	Communication signal (CONT→SAT)	Input	Ignition switch ON	When satellite radio mode is selected	 <p style="text-align: right; font-size: small;">SKIA9301J</p>
12 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
16 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
33	—	Satellite antenna	Input	—	—	—

Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

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[Click here to view the eWD.](#)

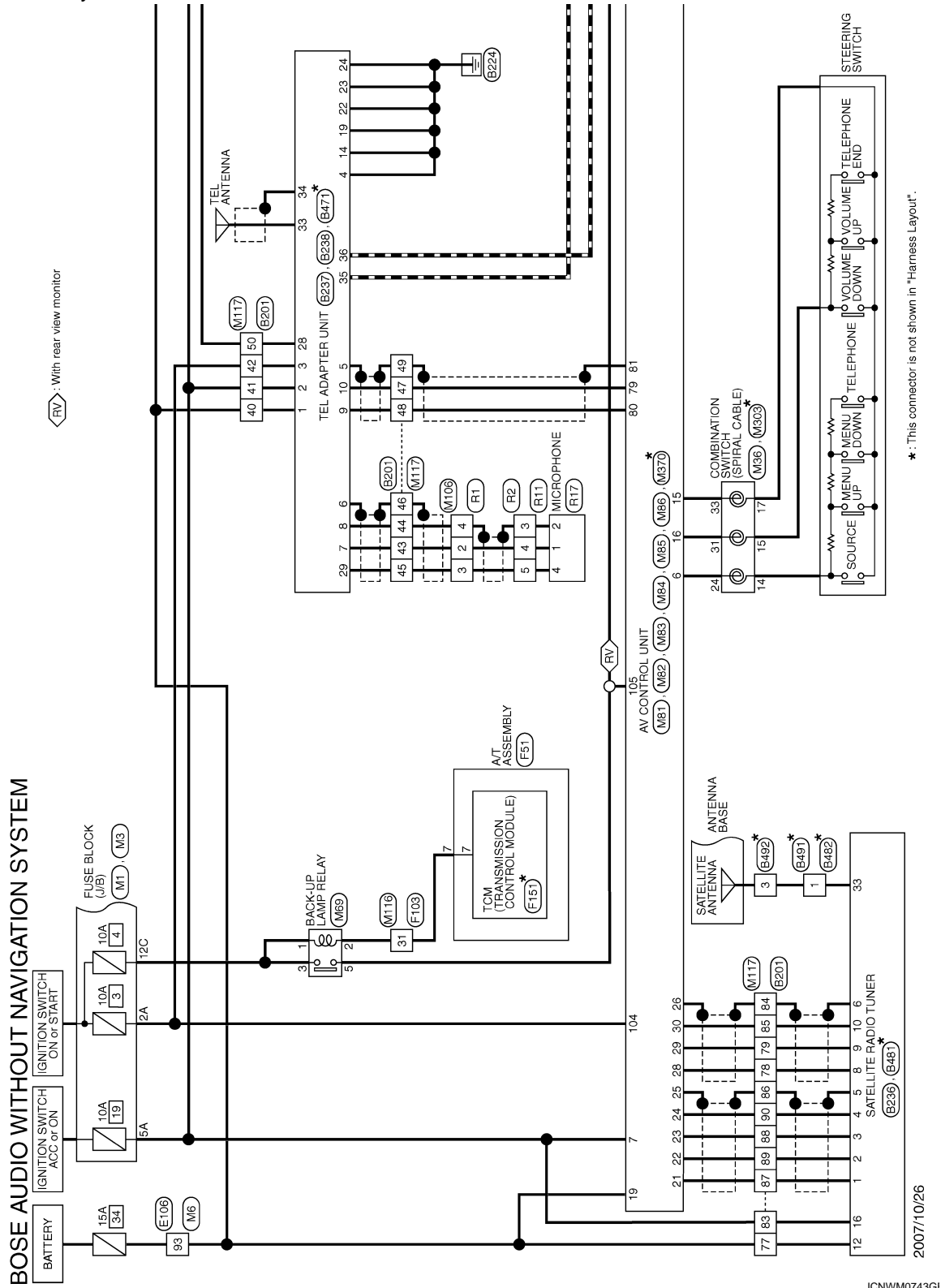
NOTE:

SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.



* : This connector is not shown in "Harness Layout".

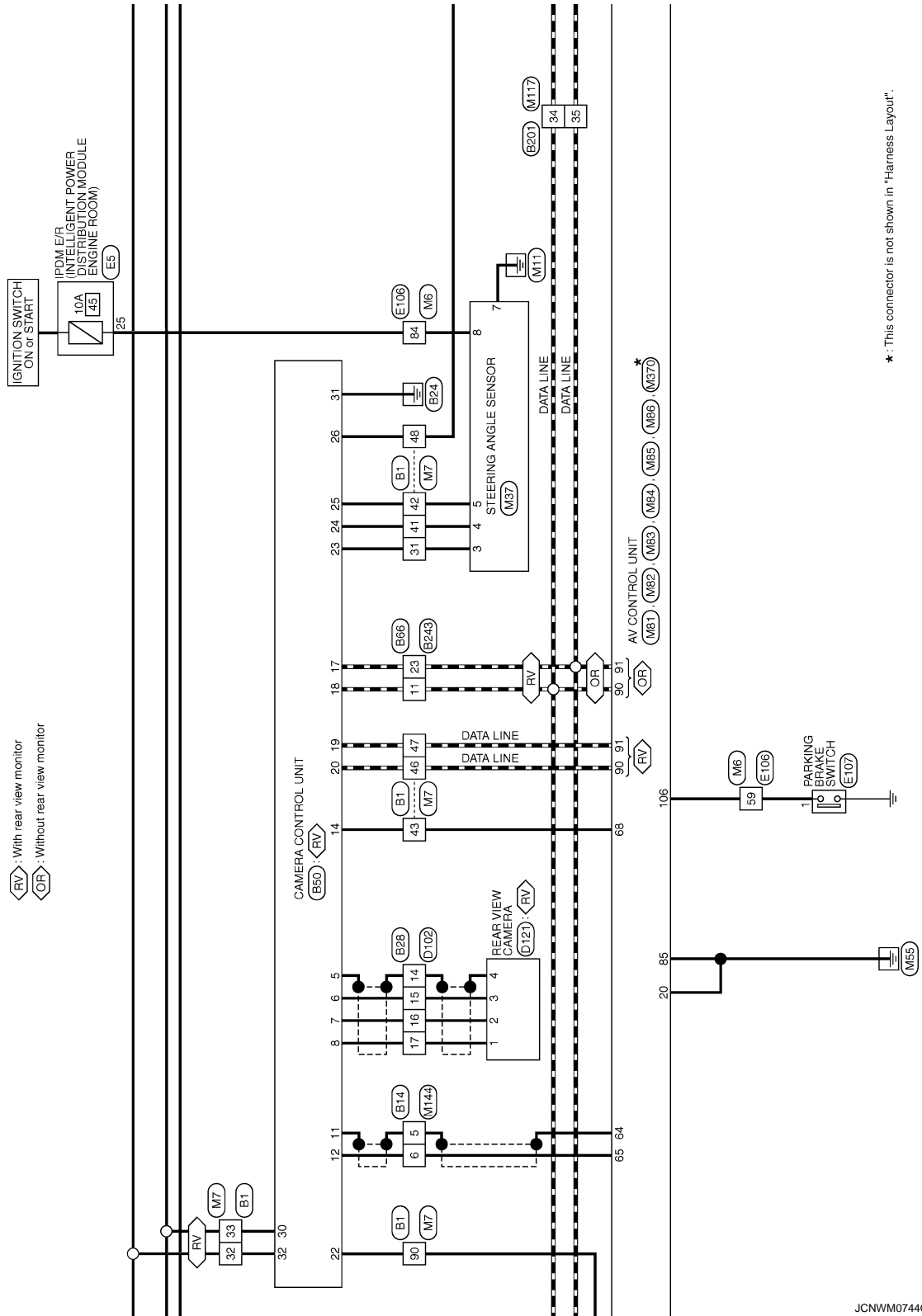
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SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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* This connector is not shown in "Harness Layout".

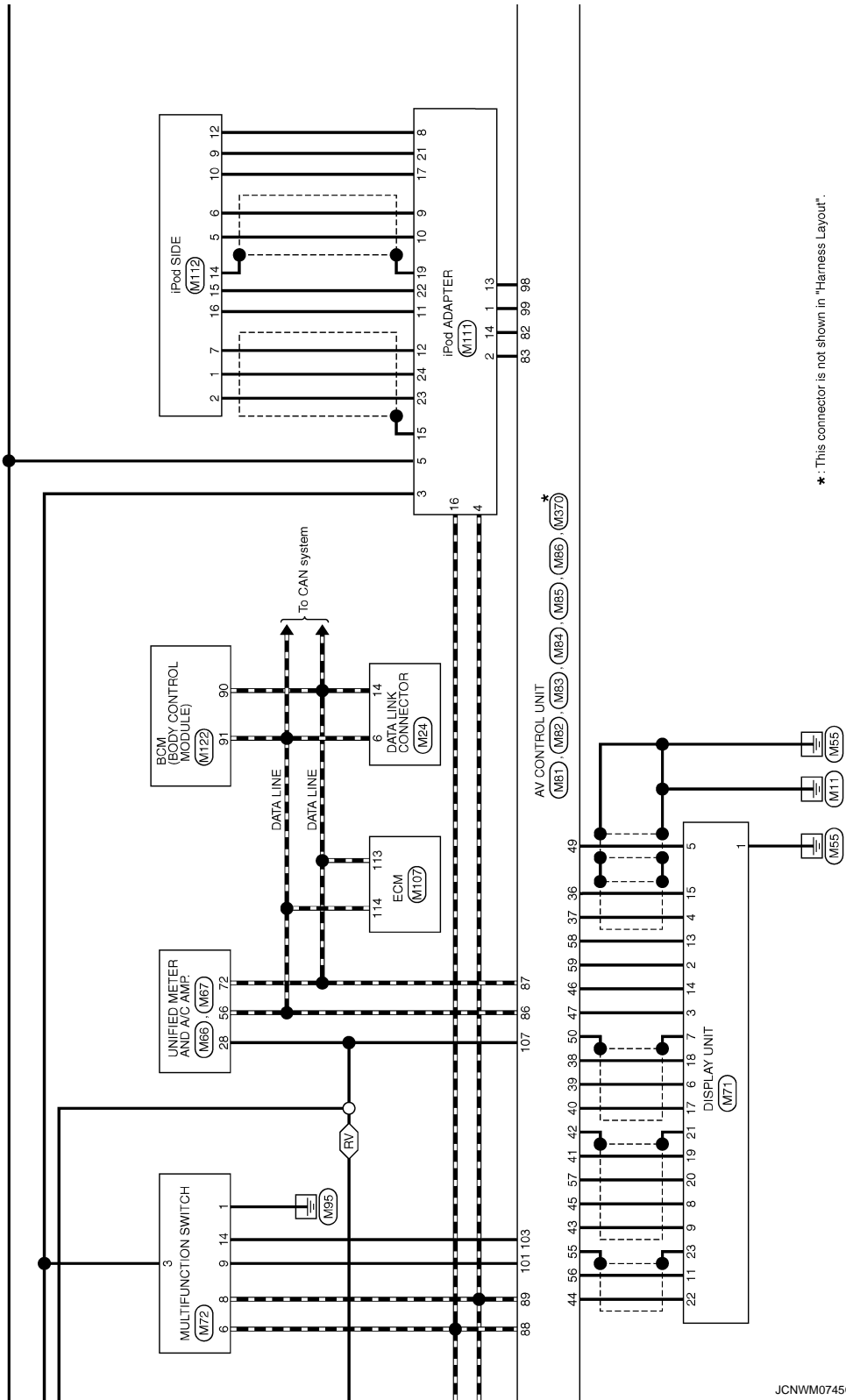
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SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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RV: With rear view monitor



*: This connector is not shown in "Harness Layout".

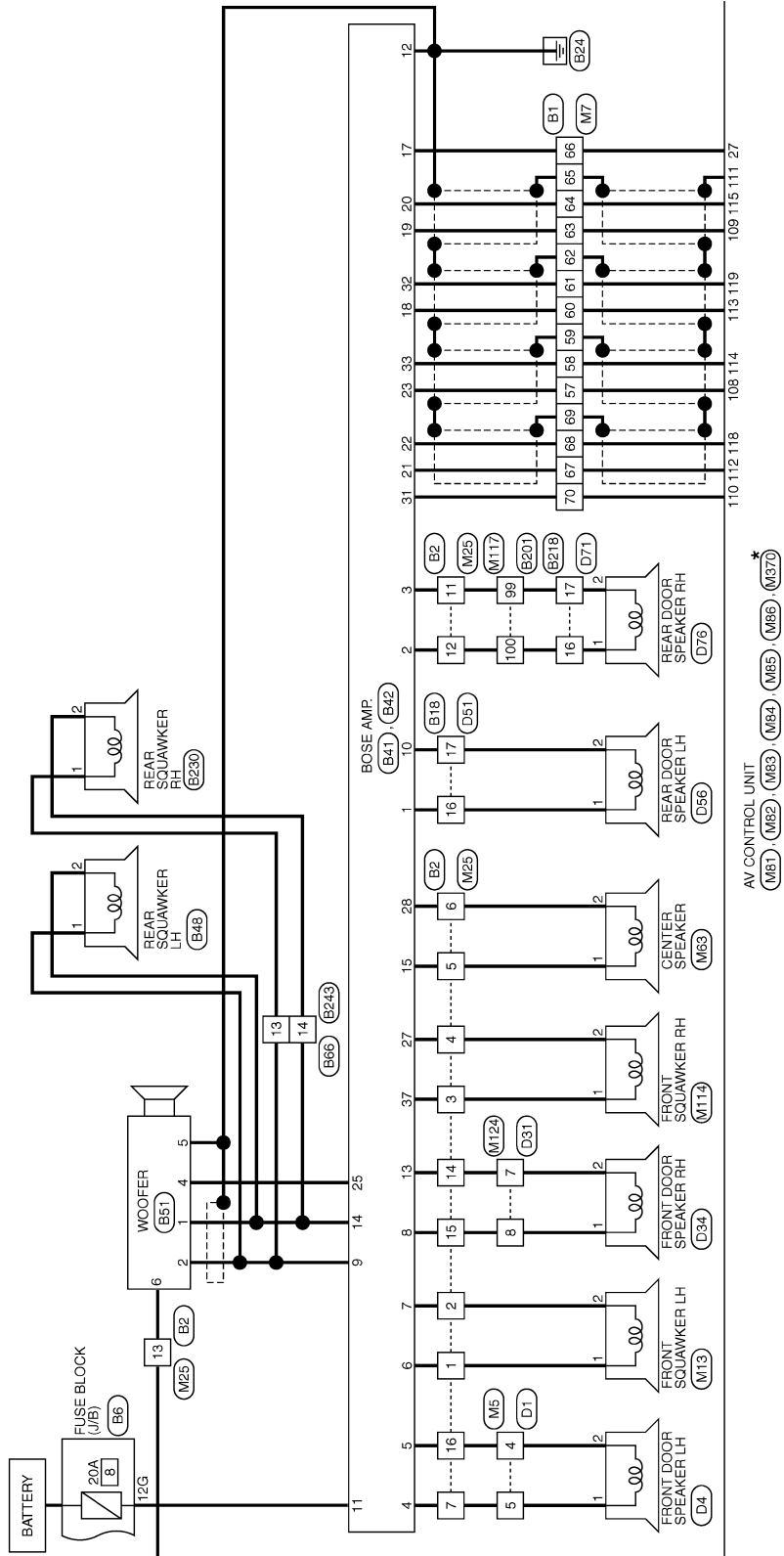
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SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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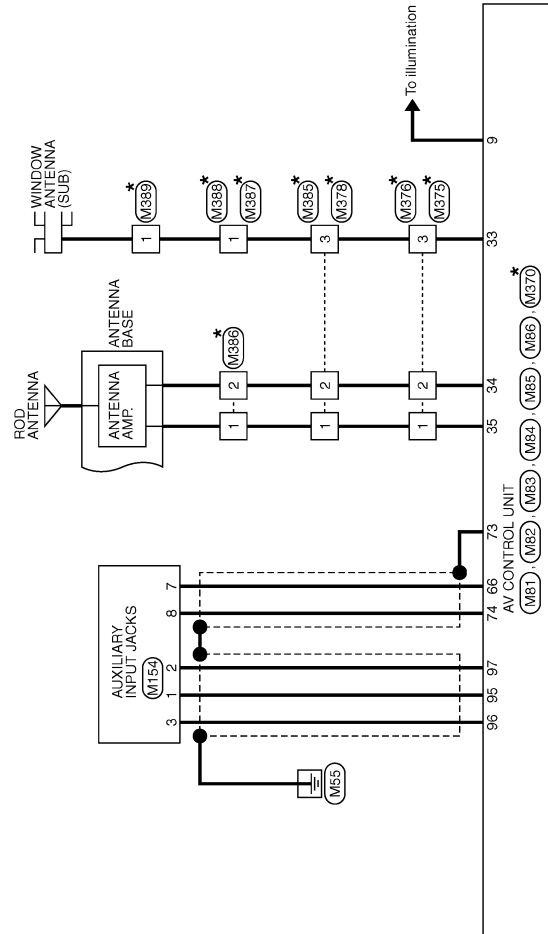
*: This connector is not shown in "Harness Layout".

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SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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*: This connector is not shown in "Harness Layout".

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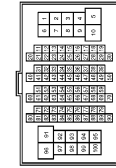
SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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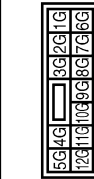
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	L	-
33	LG	-
41	BR	-
42	R	-
43	W	-
45	L	[With BOSE audio without NAV]
47	P	[With BOSE audio without NAV]
48	V	-
57	BR	-
58	Y	-

Connector No.	B8
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS

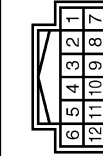


Terminal No.	Color of Wire	Signal Name [Specification]
12G	GR	-

59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
90	O	-

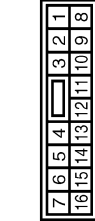
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
6	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH

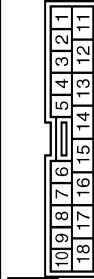


Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	-
6	W	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



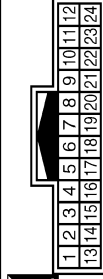
Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK0FW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

15	LG	-
16	P	-

Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH2AMV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	W	- [Without around view monitor]
16	B	- [Without around view monitor]
17	R	- [Without around view monitor]

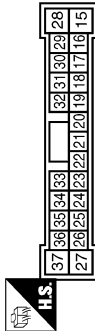
SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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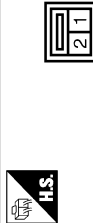
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA1PFR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (+)
17	O	MODE CHANGE SIGNAL
18	P	SOUND SIGNAL FRONT LH (+)
19	R	SOUND SIGNAL FRONT RH (+)
20	G	SOUND SIGNAL FRONT LH (-)
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	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (-)

Connector No.	B48
Connector Name	REAR SQUAWKER LH
Connector Type	TK02FBR



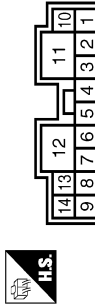
31	W	AMP. ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	BR	SOUND SIGNAL FRONT SQUAWKER RH (+)



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (-)
3	V	SOUND SIGNAL REAR DOOR RH (+)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
8	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL WOOFER (+)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

22	O	REVERSE
23	L	SENSOR SIGNAL 1
24	BR	SENSOR SIGNAL 2
25	R	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	L	BATTERY

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SCA1PFR-SJA2



Connector No.	B51
Connector Name	WOOFER
Connector Type	RS08FGY-PR



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	W	CAMERA IMAGE SIGNAL
7	B	CAMERA GND
8	R	CAMERA POWER SUPPLY
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
14	W	CONNECTION RECOGNITION
17	R	AV COMM. (L) (With BOSE audio without NAVI)
18	G	AV COMM. (H) (With BOSE audio without NAVI)
19	P	AV COMM. (L) (With BOSE audio without NAVI)
20	L	AV COMM. (H) (With BOSE audio without NAVI)

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	W	BATTERY

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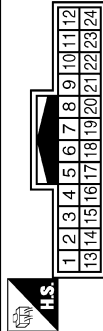
SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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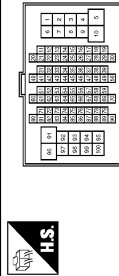
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TH2AW-NH



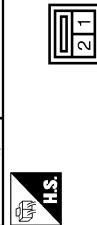
Terminal No.	Color of Wire	Signal Name [Specification]
11	G	
13	L	
14	W	
23	R	

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH8FW-CS16-TM4



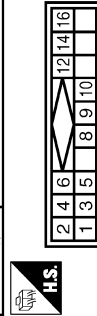
Terminal No.	Color of Wire	Signal Name [Specification]
34	G	
35	R	
40	Y	
41	LG	
42	W	
43	B	
44	R	
45	W	
46	SHIELD	
47	G	
48	Y	

Connector No.	B230
Connector Name	REAR SOUAWKER RH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Connector No.	B236
Connector Name	SATELLITE RADIO TUNER
Connector Type	A16FW

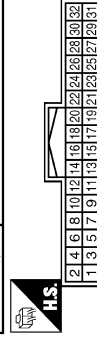


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	SOUND SIGNAL LH (-)
2	R	SOUND SIGNAL LH (+)
3	W	SOUND SIGNAL RH (-)
4	B	SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD
8	L	REQUEST (SAT->CONT)
9	P	COMM (SAT->CONT)
10	G	COMM (CONT->SAT)
12	Y	BATTERY
16	Y	ACC

49	SHIELD	
50	P	
77	Y	
78	L	
79	G	
83	V	
84	SHIELD	
85	P	
86	SHIELD	
87	G	
88	W	
89	R	
90	B	
99	O	- [With BOSE audio]
100	L	

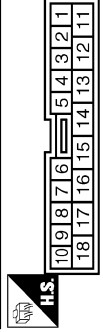
Terminal No.	Color of Wire	Signal Name [Specification]
16	L	
17	O	- [With BOSE audio]

Connector No.	B237
Connector Name	TEL ADAPTER UNIT
Connector Type	TH2FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	BATTERY
2	LG	ACC
3	W	IGNITION
4	B	GND
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	B	MICROPHONE SIGNAL
8	R	MICROPHONE GND
9	Y	TEL VOICE SIGNAL (+)
10	G	TEL VOICE SIGNAL (-)
14	B	GND

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NSS



19	B	GND
22	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
28	P	VEHICLE SPEED (8-PULSE)
29	W	MICROPHONE VCC

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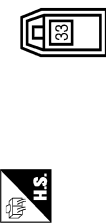
SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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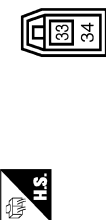
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B481
Connector Name	SATELLITE RADIO TUNER
Connector Type	FAKSA



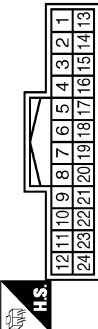
Terminal No.	Color of Wire	Signal Name [Specification]
33	-	SATELLITE ANTENNA

Connector No.	B471
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
33	-	TEL ANTENNA
34	SHIELD	SHIELD

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



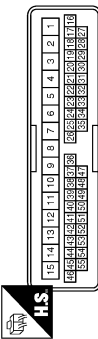
Terminal No.	Color of Wire	Signal Name [Specification]
11	L	-
13	L	-
14	W	-
23	P	-

Connector No.	B238
Connector Name	TEL ADAPTER UNIT
Connector Type	TH88FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
35	L	AV COMM (H)
36	P	AV COMM (L)

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH4DFW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
5	L	-

Connector No.	B482
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
3	-	SAETLLITE ANTENNA

Connector No.	B491
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	B482
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

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SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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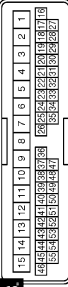
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)
Connector Type	NS02FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	BR	-

Connector No.	D34
Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)
Connector Type	NS02FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	R	-

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

Connector No.	D56
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS02FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
16	L	-
17	Y	-

Connector No.	D76
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS02FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	Y	-
16	L	- [Without around view monitor]
17	G	- [Without around view monitor]



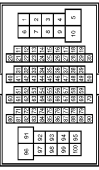
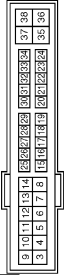
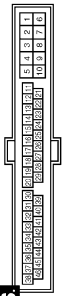
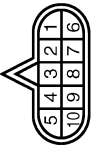

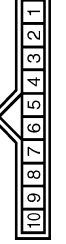
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SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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Connector No.	D121																													
Connector Name	REAR VIEW CAMERA																													
Connector Type	TH8AW-NH																													
Terminal No.	1																													
Color of Wire	G																													
Signal Name [Specification]	CAMERA POWER SUPPLY																													
Terminal No.	2																													
Color of Wire	L																													
Signal Name [Specification]	CAMERA GND																													
Terminal No.	3																													
Color of Wire	Y																													
Signal Name [Specification]	CAMERA IMAGE SIGNAL																													
Terminal No.	4																													
Color of Wire	SHIELD	SHIELD																												
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Connector No.	E107																													
Connector Name	PARKING BRAKE SWITCH																													
Connector Type	TE01FW																													
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Color of Wire	O																													
Signal Name [Specification]																														
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Connector No.	E106																													
Connector Name	WIRE TO WIRE																													
Connector Type	TH80FW-CS16-TM4																													
Terminal No.	59																													
Color of Wire	O																													
Signal Name [Specification]																														
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Color of Wire	G																													
Signal Name [Specification]																														
Terminal No.	83																													
Color of Wire	Y																													
Signal Name [Specification]																														
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Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)																													
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Color of Wire	G																													
Signal Name [Specification]																														
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Connector Name	WIRE TO WIRE																													
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Color of Wire	R																													
Signal Name [Specification]																														
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Connector No.	F51																													
Connector Name	A/T ASSEMBLY																													
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Terminal No.	7																													
Color of Wire	R																													
Signal Name [Specification]																														
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Connector Name	FUSE BLOCK (J/B)																													
Connector Type	NS00FW-M2																													
Terminal No.	2A																													
Color of Wire	G																													
Signal Name [Specification]																														
Terminal No.	5A																													
Color of Wire	V																													
Signal Name [Specification]																														
<table border="1"> <tr><td>Connector No.</td><td>F151</td></tr> <tr><td>Connector Name</td><td>TCM (TRANSMISSION CONTROL MODULE)</td></tr> <tr><td>Connector Type</td><td>SP10FBGY</td></tr> </table> 	Connector No.	F151	Connector Name	TCM (TRANSMISSION CONTROL MODULE)	Connector Type	SP10FBGY	<table border="1"> <tr><td>Terminal No.</td><td>7</td></tr> <tr><td>Color of Wire</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td>REV LAMP RLY</td></tr> </table>	Terminal No.	7	Color of Wire	O	Signal Name [Specification]	REV LAMP RLY																	
Connector No.	F151																													
Connector Name	TCM (TRANSMISSION CONTROL MODULE)																													
Connector Type	SP10FBGY																													
Terminal No.	7																													
Color of Wire	O																													
Signal Name [Specification]	REV LAMP RLY																													

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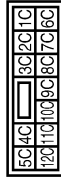
SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

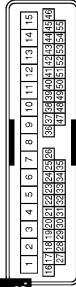
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	HS12FW-CS



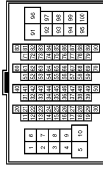
Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
4	P	-
5	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS18-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
59	V	-
84	G	-
93	Y	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS18-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	Y	-
33	V	-
41	BR	-
42	R	-
43	W	-
46	L	- [With BOSE audio without NAV]
47	P	- [With BOSE audio without NAV]
48	V	-
57	BR	-
58	Y	-

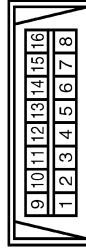
Terminal No.	Color of Wire	Signal Name [Specification]
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SR	-
67	V	-
68	SR	-
69	SHIELD	-
70	V	-
90	O	-

Connector No.	M13
Connector Name	FRONT SOUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

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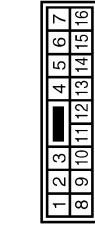
SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	MS16MW-CS



Terminal No.	15	LG
Terminal No.	16	P

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-IV



Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	V	-
4	LG	-
5	Y	-
6	G	-
7	L	-
11	V	-
12	SB	-
13	Y	-
14	Y	-

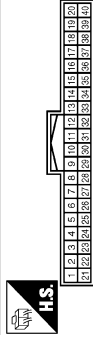
Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
31	L	-
33	B	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN

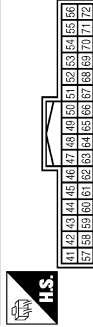
Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

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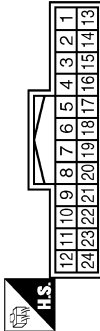
SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M71
Connector Name	DISPLAY UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH



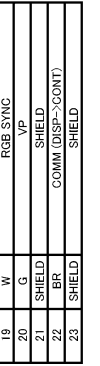
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	INVERTER VCC
3	O	SIGNAL VCC
4	V	COMPOSITE IMAGE GND
5	Y	SHIELD
6	L	RGB (G: GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (YS) SIGNAL
11	Y	COMM (CONT->DISP)
13	BR	INVERTER GND

Connector No.	M82
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	A12FW



Terminal No.	Color of Wire	Signal Name [Specification]
21	W	SATELLITE SOUND SIGNAL LH (-)
22	B	SATELLITE SOUND SIGNAL LH (+)
23	R	SATELLITE SOUND SIGNAL RH (-)
24	G	SATELLITE SOUND SIGNAL RH (+)
25	SHIELD	SHIELD
26	SHIELD	SHIELD
27	SB	MODE CHANGE SIGNAL
28	W	REQUEST (SAT->CONT)
29	B	COMM (SAT->CONT)
30	R	COMM (CONT->SAT)

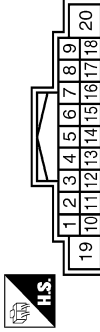
14	LG	SIGNAL GND
15	SB	COMPOSITE IMAGE SIGNAL
17	G	RGB (R: RED) SIGNAL
18	P	RGB (B: BLUE) SIGNAL
19	W	RGB SYNC
20	G	VP
21	SHIELD	SHIELD
22	BR	COMM (DISP->CONT)
23	SHIELD	SHIELD



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	V	ACC
6	LG	AV COMM (H)
8	V	AV COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL

Terminal No.	Color of Wire	Signal Name [Specification]
47	O	SIGNAL VCC
49	Y	SHIELD
50	SHIELD	SHIELD
55	SHIELD	SHIELD
56	Y	COMM (CONT->DISP)
57	G	VP
58	BR	INVERTER GND
59	Y	INVERTER VCC

Connector No.	M81
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
6	P	STRG SW A
7	V	ACC
9	R	ILLUMINATION
15	B	STRG SW GND
16	L	STRG SW B
19	Y	BATTERY
20	B	GND

Connector No.	M84
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
64	SHIELD	SHIELD
65	W	CAMERA IMAGE SIGNAL
66	G	AUX IMAGE SIGNAL
68	W	CONNECTION RECOGNITION
73	SHIELD	SHIELD
74	R	AUX IMAGE GND

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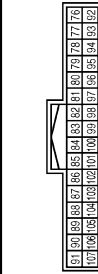
SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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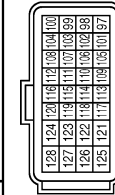
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M85
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH2FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
79	P	TEL VOICE SIGNAL (-)
80	L	SHIELD
81	L	TEL VOICE SIGNAL (+)
82	G	I-Pod SOUND SIGNAL RH (-)
83	B	I-Pod SOUND SIGNAL RH (+)
84	B	GND
85	L	CAN-H
86	L	CAN-L
87	P	AV COMM (H)
88	LG	AV COMM (L)
89	Y	AV COMM (H)
90	L	AV COMM (L)

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-R28-R-LH-Z

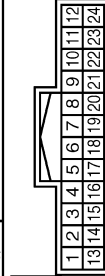


Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-LI
114	L	VEHCAN-LI

90	G	AV COMM (H) [With rear view monitor]
91	P	AV COMM (L) [Without rear view monitor]
91	R	AV COMM (L) [With rear view monitor]
95	B	AUX SOUND SIGNAL RH (+)
96	R	AUX SOUND SIGNAL LH (+)
97	W	AUX SOUND SIGNAL GND
98	W	I-Pod SOUND SIGNAL LH (-)
99	R	I-Pod SOUND SIGNAL LH (+)
101	BR	SW GND
103	SB	DISK EJECT SIGNAL
104	G	IGNITION
105	O	REVERSE
106	V	PARKING BRAKE
107	R	VEHICLE SPEED (8-PULSE)

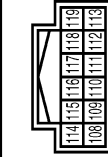
Terminal No.	Color of Wire	Signal Name [Specification]
108	BR	SOUND SIGNAL REAR RH (+)
109	R	SOUND SIGNAL FRONT RH (+)
110	V	AMP_ON SIGNAL
111	SHIELD	SHIELD
112	V	SOUND SIGNAL REAR LH (+)
113	P	SOUND SIGNAL FRONT LH (+)
114	Y	SOUND SIGNAL REAR RH (-)
115	G	SOUND SIGNAL FRONT RH (-)
118	SB	SOUND SIGNAL REAR LH (-)
119	L	SOUND SIGNAL FRONT LH (-)

Connector No.	M111
Connector Name	I-Pod ADAPTER
Connector Type	TH24FW-NH



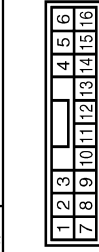
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	I-Pod SOUND SIGNAL LH (+)
2	B	I-Pod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
6	W	CHARGE POWER
7	P	COMM (I-Pod->I-Pod ADAPTER)
8	L	COMM (I-Pod->I-Pod ADAPTER)
9	O	ACCESSORY IDENTIFY
10	R	I-Pod SOUND SIGNAL RH (+)
11	R	I-Pod SOUND SIGNAL LH (-)
12	W	I-Pod SOUND SIGNAL LH (+)
13	W	I-Pod SOUND SIGNAL LH (-)

Connector No.	M86
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
108	BR	SOUND SIGNAL REAR RH (+)
109	R	SOUND SIGNAL FRONT RH (+)
110	V	AMP_ON SIGNAL
111	SHIELD	SHIELD
112	V	SOUND SIGNAL REAR LH (+)
113	P	SOUND SIGNAL FRONT LH (+)
114	Y	SOUND SIGNAL REAR RH (-)
115	G	SOUND SIGNAL FRONT RH (-)
118	SB	SOUND SIGNAL REAR LH (-)
119	L	SOUND SIGNAL FRONT LH (-)

Connector No.	M112
Connector Name	I-Pod SIDE
Connector Type	IP18FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	I-Pod SOUND SIGNAL LH (+)
2	W	I-Pod SOUND SIGNAL GND
3	L	COMM (I-Pod->I-Pod ADAPTER)
4	P	COMM (I-Pod->I-Pod ADAPTER)
5	R	I-Pod SOUND SIGNAL RH (+)
6	R	I-Pod CONNECTION RECOGNITION
7	W	GND
8	W	CHARGE POWER
9	W	SHIELD
10	W	SHIELD
11	G	ACCESSORY DETECT
12	O	I-Pod SOUND SIGNAL GND
13	O	I-Pod SOUND SIGNAL LH (+)
14	O	I-Pod SOUND SIGNAL LH (+)
15	O	I-Pod SOUND SIGNAL LH (+)
16	O	I-Pod SOUND SIGNAL LH (+)

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SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M114
Connector Name	FRONT SQUAWKER RH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK3BMV-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
31	W	-

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH02MW-CS18-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
34	LG	-
35	Y	-
40	Y	-
41	G	-
42	O	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	P	-
48	L	-

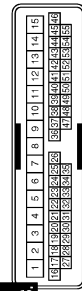
49	SHIELD	-
50	V	-
77	Y	-
78	W	-
79	B	-
83	V	-
84	SHIELD	-
85	R	-
86	SHIELD	-
87	W	-
88	R	-
89	B	-
90	G	-
99	V	- [With BOSE audio]
100	SD	- [With BOSE audio]

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



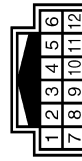
Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	LG	-

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	-
6	W	-

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	A08FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	AUX SOUND SIGNAL RH (+)
2	W	AUX SOUND SIGNAL GND
3	R	AUX SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

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[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M370	AV CONTROL UNIT (WITHOUT NAVI)	GT15SH-2/1S-HU
Connector Name			
Connector Type			




Terminal No.	Color of Wire	Signal Name [Specification]
33	-	FM SUB
34	-	AM-FM MAIN
35	-	ANTENNA AMP ON SIGNAL

Connector No.	M376	WIRE TO WIRE	GT13SCN-2/1PP-HU
Connector Name			
Connector Type			




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M375	WIRE TO WIRE	GT13SC-2/1S-HU
Connector Name			
Connector Type			




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M385	WIRE TO WIRE	GT13SCN-2/1PP-HU
Connector Name			
Connector Type			




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M378	WIRE TO WIRE	GT13SC-2/1S-HU
Connector Name			
Connector Type			




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M385	ANTENNA BASE	GT13SSN-1/1PP-HU
Connector Name			
Connector Type			



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP ON SIGNAL
2	-	AM-FM MAIN

Connector No.	M387	WIRE TO WIRE	LTASO JACK
Connector Name			
Connector Type			



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

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SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M388
Connector Name	WIRE TO WIRE
Connector Type	JASO PLUS



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M389
Connector Name	WINDOW ANTENNA (SUB)
Connector Type	PROTIB-A



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-RS8



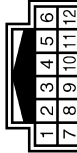
Terminal No.	Color of Wire	Signal Name [Specification]
2	G	- [Without NAV]
3	Y	- [Without NAV]
4	SHIELD	-

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	- [Without NAV]
5	Y	- [Without NAV]

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	-
5	R	-

Connector No.	R17
Connector Name	MICROPHONE
Connector Type	TKG4FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
4	R	MICROPHONE VCC

TEL ADAPTER UNIT

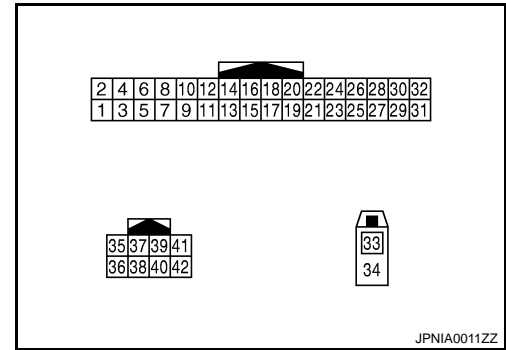
[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

TEL ADAPTER UNIT

Reference Value

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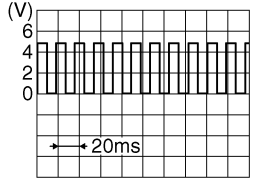
PHYSICAL VALUES

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 (LG)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
3 (W)	Ground	Ignition signal	Input	Ignition switch ON	—	Battery voltage
4 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
5	—	Shield	—	—	—	—
6	—	Shield	—	—	—	—
7 (B)	8 (R)	Microphone signal	Input	Ignition switch ON	Give a voice	<p style="text-align: right;">PKIB5037J</p>
8 (R)	Ground	Microphone GROUND	—	Ignition switch ON	—	0 V
9 (Y)	10 (G)	TEL voice signal	Output	Ignition switch ON	During voice guide output with the switch pressed	<p style="text-align: right;">SKIB3609E</p>

TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
14 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
19 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
22 (B)	Ground	Control signal	—	Ignition switch ON	—	0 V
23 (B)	Ground	Control signal	—	Ignition switch ON	—	0 V
24 (B)	Ground	Control signal	—	Ignition switch ON	—	0 V
28 (P)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is ap- prox. 40 km/h (25MPH)	<p>NOTE: Maximum voltage may be 12 V due to specifications (connected units).</p>  <p style="text-align: right;"><small>SKIA6649J</small></p>
29 (W)	8 (R)	Microphone VCC	Output	Ignition switch ON	—	5.0 V
33	—	TEL antenna	Input	—	—	—
34	—	Shield	—	—	—	—
35 (L)	—	AV communication signal (H)	Input/ Output	—	—	—
36 (P)	—	AV communication signal (L)	Input/ Output	—	—	—

Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

INFOID:000000003737127

Click here to view the eWD.

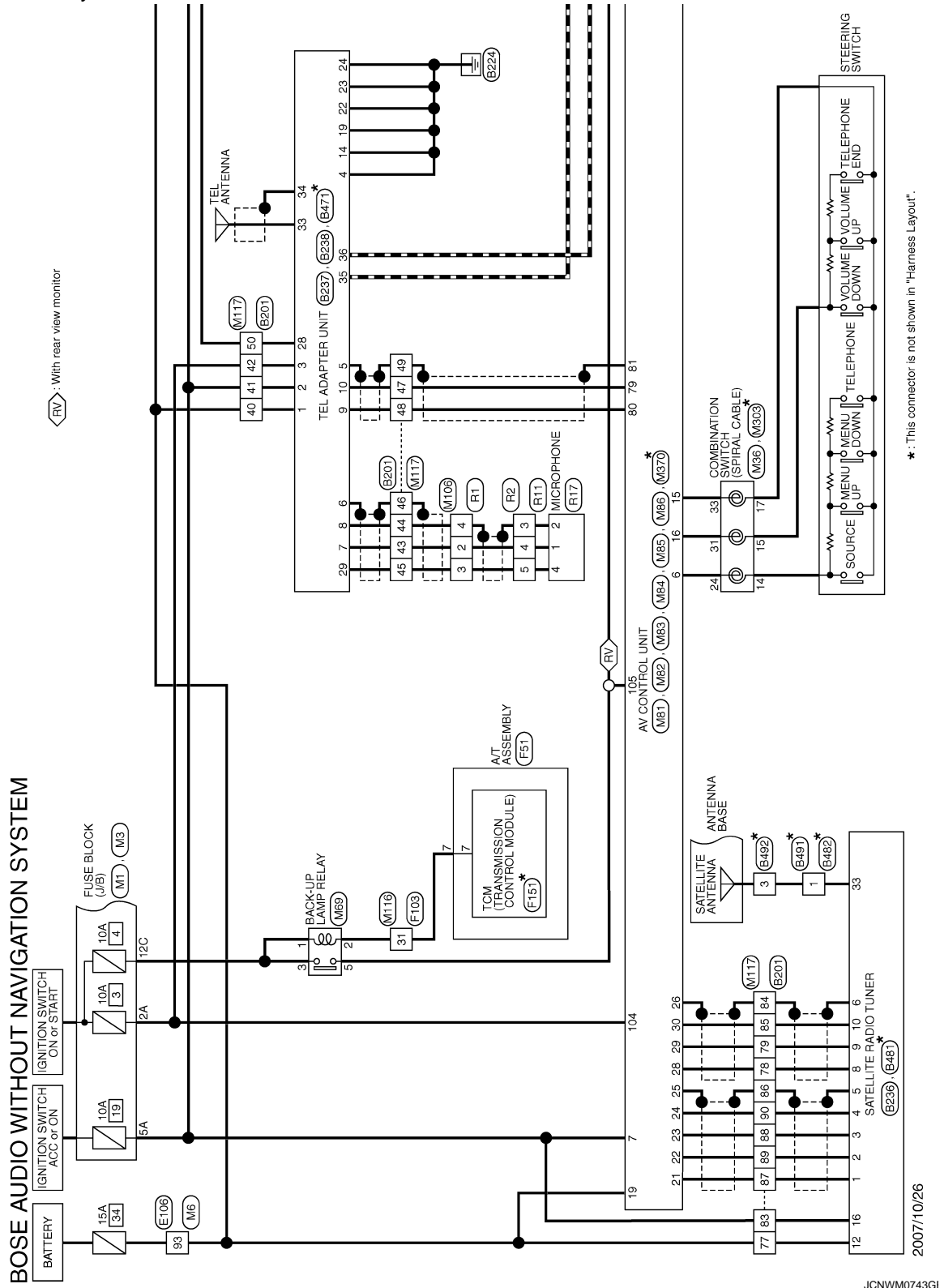
NOTE:

TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

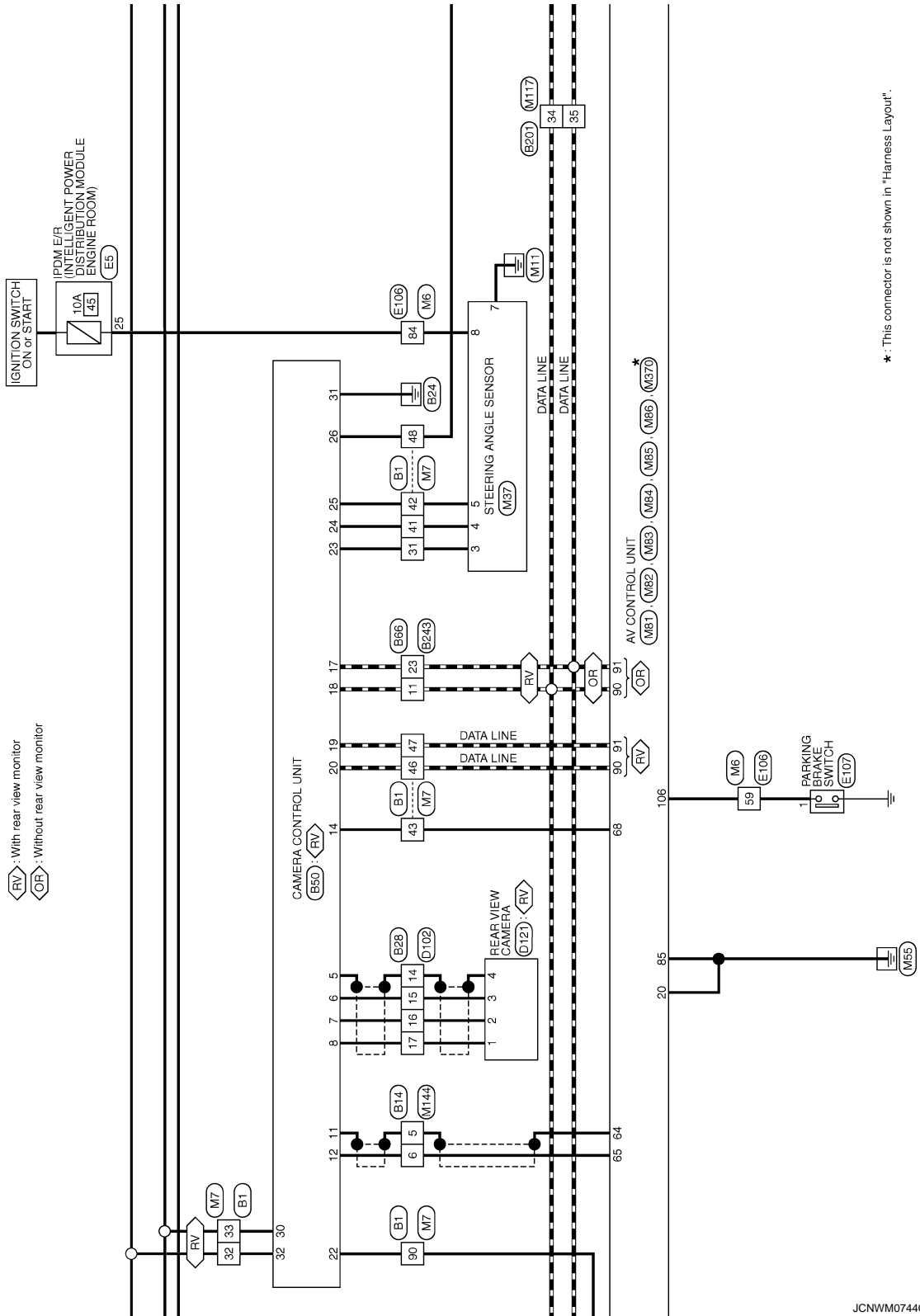


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TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >



* This connector is not shown in "Harness Layout".

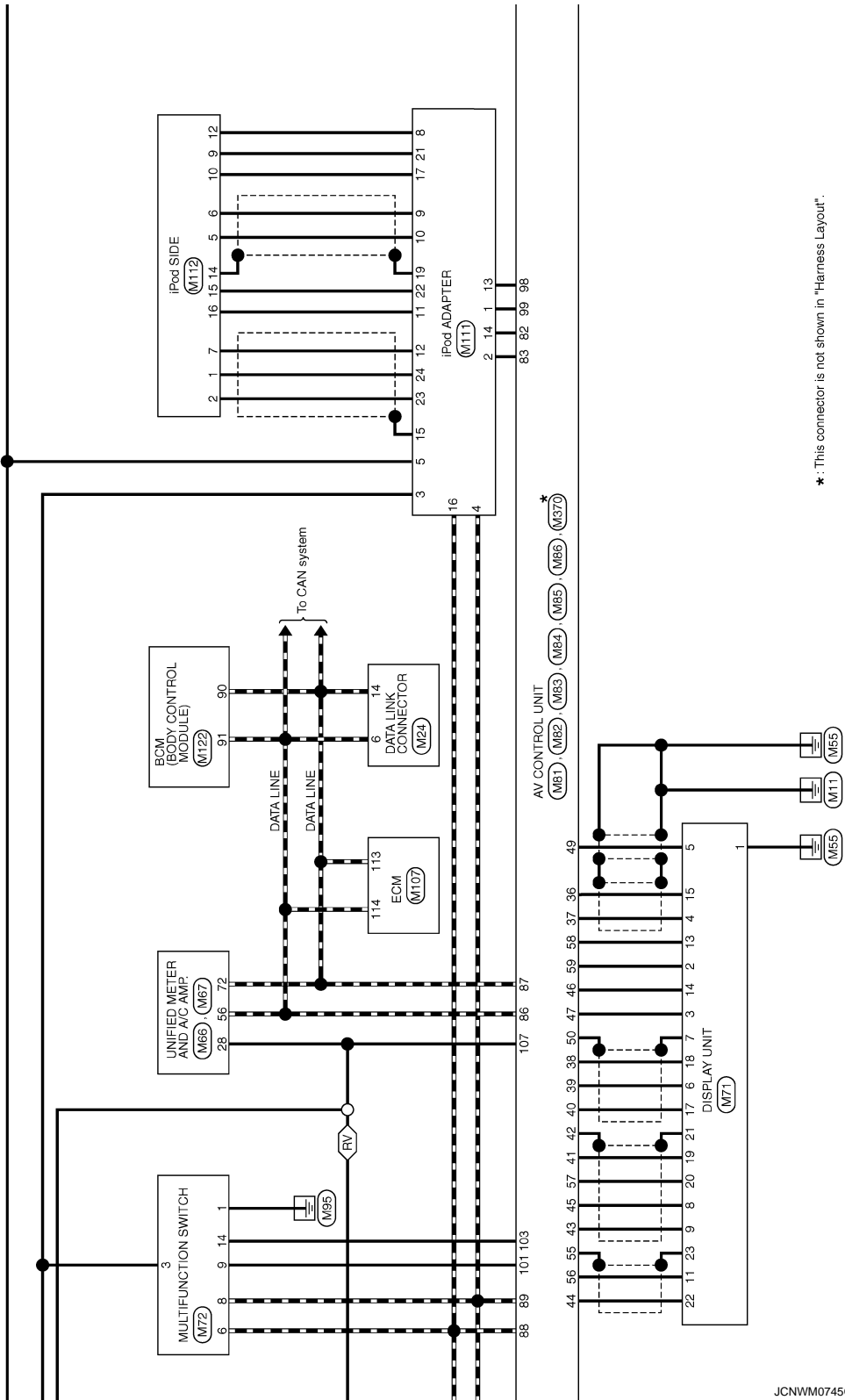
JCNWM0744GI

TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

RV: With rear view monitor



*: This connector is not shown in "Harness Layout".

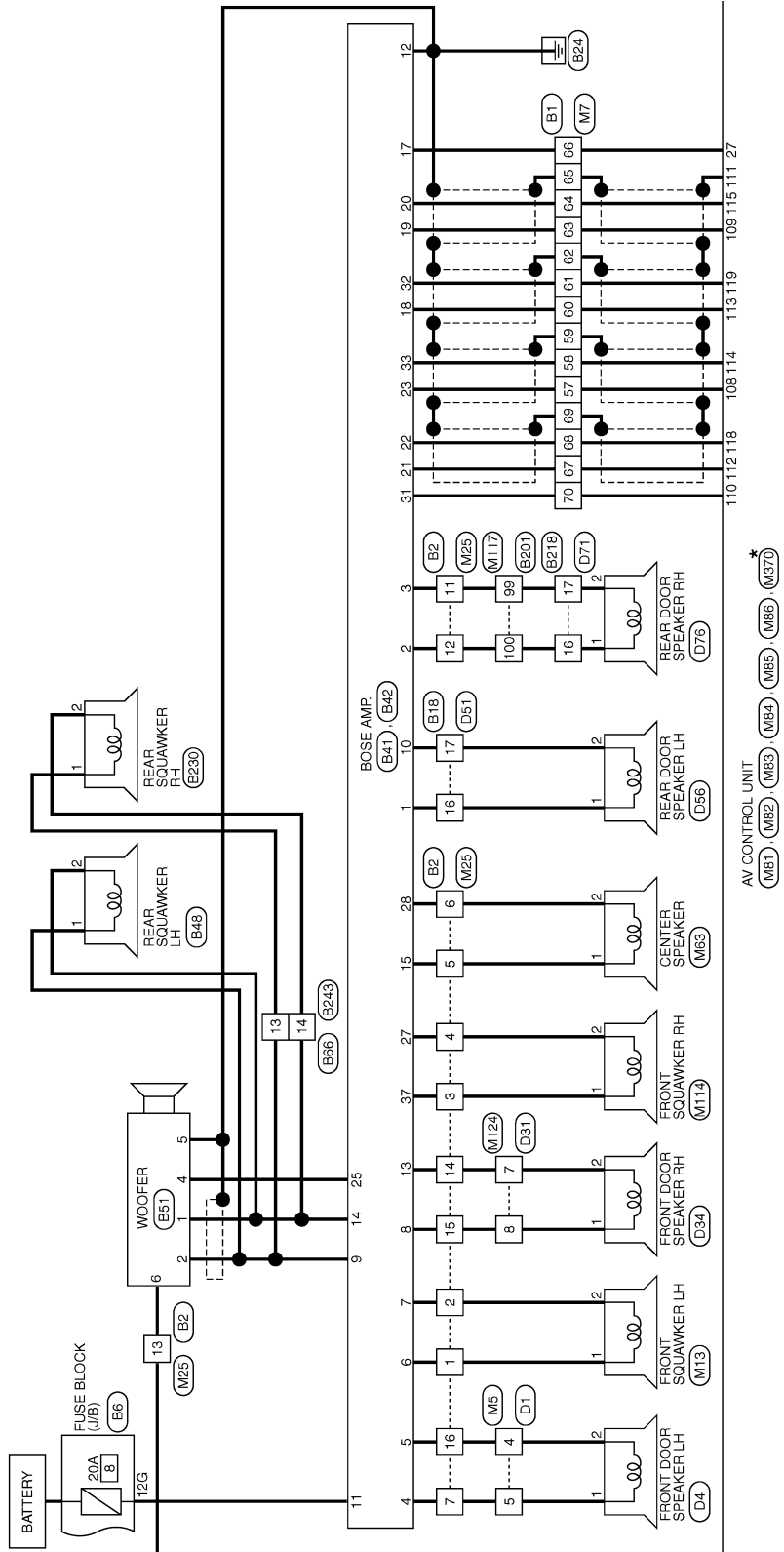
JCNWM0745GI

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TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >



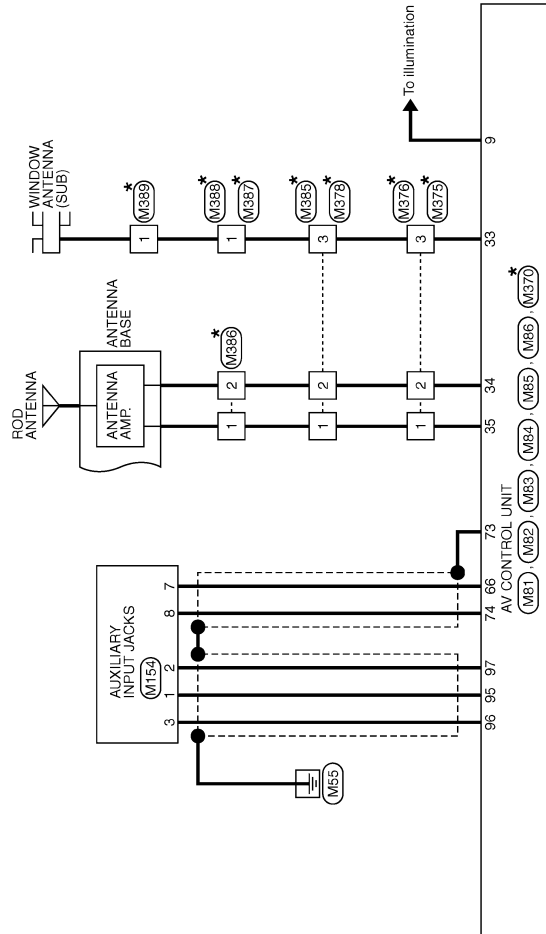
*: This connector is not shown in "Harness Layout".

JCNWM0746GI

TEL ADAPTER UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]



*: This connector is not shown in "Harness Layout".

JCNWM0747GI

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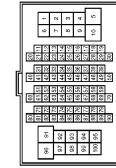
TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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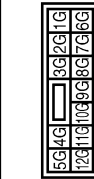
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	L	-
33	LG	-
41	BR	-
42	R	-
43	W	-
45	L	[With BOSE audio without NAV]
47	P	[With BOSE audio without NAV]
48	V	-
57	BR	-
58	Y	-

Connector No.	B8
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS

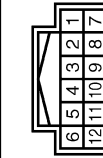


Terminal No.	Color of Wire	Signal Name [Specification]
12G	GR	-

59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
90	O	-

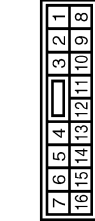
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
6	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH

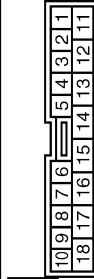


Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	-
6	W	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



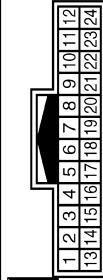
Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

15	LG	-
16	P	-

Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MY-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	W	- [Without around view monitor]
16	B	- [Without around view monitor]
17	R	- [Without around view monitor]

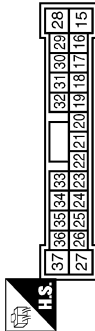
TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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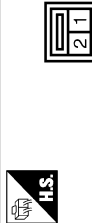
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA1PFR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (+)
17	O	MODE CHANGE SIGNAL
18	P	SOUND SIGNAL FRONT LH (+)
19	R	SOUND SIGNAL FRONT RH (+)
20	G	SOUND SIGNAL FRONT LH (-)
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	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (-)

Connector No.	B48
Connector Name	REAR SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

31	W	AMP ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (+)
33	Y	SOUND SIGNAL REAR RH (-)
37	BR	SOUND SIGNAL FRONT SQUAWKER RH (+)

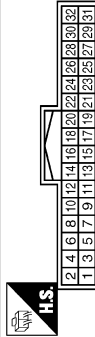


Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (-)
3	V	SOUND SIGNAL REAR DOOR RH (+)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
8	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL WOOFER (+)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

22	O	REVERSE
23	L	SENSOR SIGNAL 1
24	BR	SENSOR SIGNAL 2
25	R	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	L	BATTERY



Connector No.	B50
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH43FW-NH



Connector No.	B51
Connector Name	WOOFER
Connector Type	RS08FGY-PR



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP ON SIGNAL
5	B	GND
6	W	BATTERY

12	B	GND
13	Y	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)
14	R	SOUND SIGNAL WOOFER (-)

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A B C D E F G H I J K L M N O P

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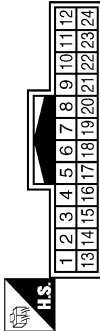
TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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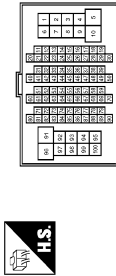
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
11	G	
13	L	
14	W	
23	R	

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH82FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
34	G	
35	R	
40	Y	
41	LG	
42	W	
43	B	
44	R	
45	W	
46	SHIELD	
47	G	
48	Y	

Connector No.	B230
Connector Name	REAR SQUAWKER RH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

49	SHIELD	
50	P	
77	Y	
78	L	
79	G	
83	V	
84	SHIELD	
85	P	
88	SHIELD	
87	G	
89	W	
89	R	
90	B	
99	O	- [With BOSE audio]
100	L	

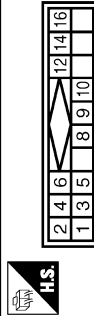
Terminal No.	Color of Wire	Signal Name [Specification]
16	L	
17	O	- [With BOSE audio]

Connector No.	B237
Connector Name	TEL ADAPTER UNIT
Connector Type	TH22FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	BATTERY
2	LG	ACC
3	W	IGNITION
4	B	GND
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	B	MICROPHONE SIGNAL
8	R	MICROPHONE GND
9	Y	TEL VOICE SIGNAL (+)
10	G	TEL VOICE SIGNAL (-)
14	B	GND

Connector No.	B238
Connector Name	SATELLITE RADIO TUNER
Connector Type	A16FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	SOUND SIGNAL LH (-)
2	R	SOUND SIGNAL LH (+)
3	W	SOUND SIGNAL RH (-)
4	B	SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD
8	L	REQUEST (SAT->CONT)
9	P	COMM (SAT->CONT)
10	G	COMM (CONT->SAT)
12	Y	BATTERY
16	Y	ACC

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NSS



Terminal No.	Color of Wire	Signal Name [Specification]
16	L	
17	O	- [With BOSE audio]

19	B	GND
22	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
28	P	VEHICLE SPEED (8-PULSE)
29	W	MICROPHONE VCC

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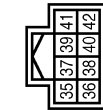
TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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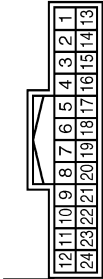
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B238
Connector Name	TEL ADAPTER UNIT
Connector Type	TH8BFW-IN1



Terminal No.	Color of Wire	Signal Name [Specification]
35	L	AV COMM (H)
36	P	AV COMM (L)

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
11	L	-
13	L	-
14	W	-
23	P	-

Connector No.	B471
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-IS-HU



Terminal No.	Color of Wire	Signal Name [Specification]
33	-	TEL ANTENNA
34	SHIELD	SHIELD

Connector No.	B481
Connector Name	SATELLITE RADIO TUNER
Connector Type	FAKSA



Terminal No.	Color of Wire	Signal Name [Specification]
33	-	SATELLITE ANTENNA

Connector No.	B482
Connector Name	WIRE TO WIRE
Connector Type	GT16C-IS-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	B491
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU



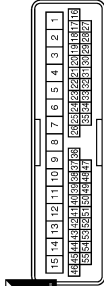
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	B482
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
3	-	SAETLLITE ANTENNA

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH4DFW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
5	L	-

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TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)
Connector Type	NS02FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-CS15



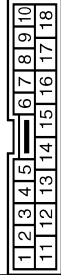
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	BR	-

Connector No.	D34
Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)
Connector Type	NS02FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	R	-

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

Connector No.	D56
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS02FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS



Terminal No.	Color of Wire	Signal Name [Specification]
16	L	-
17	Y	-

Connector No.	D76
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS02FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	Y	-
16	L	- [Without around view monitor]
17	G	- [Without around view monitor]



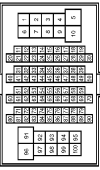
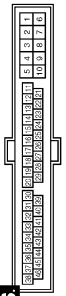
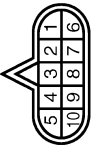
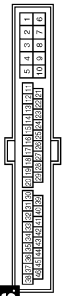
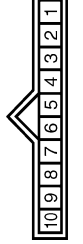

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TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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Connector No.	D121																					
Connector Name	REAR VIEW CAMERA																					
Connector Type	TH8AWV-NH																					
Terminal No.	1	2	3	4																		
Color of Wire	G	L	Y	SHIELD																		
Signal Name [Specification]	CAMERA POWER SUPPLY	CAMERA GND	CAMERA IMAGE SIGNAL	SHIELD																		
<table border="1"> <tr><td>Connector No.</td><td>E107</td></tr> <tr><td>Connector Name</td><td>PARKING BRAKE SWITCH</td></tr> <tr><td>Connector Type</td><td>TE01PW</td></tr> </table> 	Connector No.	E107	Connector Name	PARKING BRAKE SWITCH	Connector Type	TE01PW	<table border="1"> <tr><td>Terminal No.</td><td>1</td></tr> <tr><td>Color of Wire</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	1	Color of Wire	O	Signal Name [Specification]										
Connector No.	E107																					
Connector Name	PARKING BRAKE SWITCH																					
Connector Type	TE01PW																					
Terminal No.	1																					
Color of Wire	O																					
Signal Name [Specification]																						
<table border="1"> <tr><td>Connector No.</td><td>E106</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH8BFW-CS16-TM4</td></tr> </table> 	Connector No.	E106	Connector Name	WIRE TO WIRE	Connector Type	TH8BFW-CS16-TM4	<table border="1"> <tr><td>Terminal No.</td><td>59</td><td>84</td><td>83</td></tr> <tr><td>Color of Wire</td><td>O</td><td>G</td><td>Y</td></tr> <tr><td>Signal Name [Specification]</td><td></td><td></td><td></td></tr> </table>	Terminal No.	59	84	83	Color of Wire	O	G	Y	Signal Name [Specification]						
Connector No.	E106																					
Connector Name	WIRE TO WIRE																					
Connector Type	TH8BFW-CS16-TM4																					
Terminal No.	59	84	83																			
Color of Wire	O	G	Y																			
Signal Name [Specification]																						
<table border="1"> <tr><td>Connector No.</td><td>E103</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TK3BFW-NS10</td></tr> </table> 	Connector No.	E103	Connector Name	WIRE TO WIRE	Connector Type	TK3BFW-NS10	<table border="1"> <tr><td>Terminal No.</td><td>25</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	25	Color of Wire	G	Signal Name [Specification]										
Connector No.	E103																					
Connector Name	WIRE TO WIRE																					
Connector Type	TK3BFW-NS10																					
Terminal No.	25																					
Color of Wire	G																					
Signal Name [Specification]																						
<table border="1"> <tr><td>Connector No.</td><td>F101</td></tr> <tr><td>Connector Name</td><td>A/T ASSEMBLY</td></tr> <tr><td>Connector Type</td><td>RK10FG-DGY</td></tr> </table> 	Connector No.	F101	Connector Name	A/T ASSEMBLY	Connector Type	RK10FG-DGY	<table border="1"> <tr><td>Terminal No.</td><td>7</td></tr> <tr><td>Color of Wire</td><td>R</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	7	Color of Wire	R	Signal Name [Specification]										
Connector No.	F101																					
Connector Name	A/T ASSEMBLY																					
Connector Type	RK10FG-DGY																					
Terminal No.	7																					
Color of Wire	R																					
Signal Name [Specification]																						
<table border="1"> <tr><td>Connector No.</td><td>F102</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TK3BFW-NS10</td></tr> </table> 	Connector No.	F102	Connector Name	WIRE TO WIRE	Connector Type	TK3BFW-NS10	<table border="1"> <tr><td>Terminal No.</td><td>31</td></tr> <tr><td>Color of Wire</td><td>R</td></tr> <tr><td>Signal Name [Specification]</td><td></td></tr> </table>	Terminal No.	31	Color of Wire	R	Signal Name [Specification]										
Connector No.	F102																					
Connector Name	WIRE TO WIRE																					
Connector Type	TK3BFW-NS10																					
Terminal No.	31																					
Color of Wire	R																					
Signal Name [Specification]																						
<table border="1"> <tr><td>Connector No.</td><td>F151</td></tr> <tr><td>Connector Name</td><td>TCM (TRANSMISSION CONTROL MODULE)</td></tr> <tr><td>Connector Type</td><td>SP10FBGY</td></tr> </table> 	Connector No.	F151	Connector Name	TCM (TRANSMISSION CONTROL MODULE)	Connector Type	SP10FBGY	<table border="1"> <tr><td>Terminal No.</td><td>7</td></tr> <tr><td>Color of Wire</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td>REV LAMP RLY</td></tr> </table>	Terminal No.	7	Color of Wire	O	Signal Name [Specification]	REV LAMP RLY									
Connector No.	F151																					
Connector Name	TCM (TRANSMISSION CONTROL MODULE)																					
Connector Type	SP10FBGY																					
Terminal No.	7																					
Color of Wire	O																					
Signal Name [Specification]	REV LAMP RLY																					
<table border="1"> <tr><td>Connector No.</td><td>M1</td></tr> <tr><td>Connector Name</td><td>FUSE BLOK (J/B)</td></tr> <tr><td>Connector Type</td><td>NS09FW-M2</td></tr> </table> 	Connector No.	M1	Connector Name	FUSE BLOK (J/B)	Connector Type	NS09FW-M2	<table border="1"> <tr><td>Terminal No.</td><td>2A</td><td>5A</td></tr> <tr><td>Color of Wire</td><td>G</td><td>V</td></tr> <tr><td>Signal Name [Specification]</td><td></td><td></td></tr> </table>	Terminal No.	2A	5A	Color of Wire	G	V	Signal Name [Specification]								
Connector No.	M1																					
Connector Name	FUSE BLOK (J/B)																					
Connector Type	NS09FW-M2																					
Terminal No.	2A	5A																				
Color of Wire	G	V																				
Signal Name [Specification]																						

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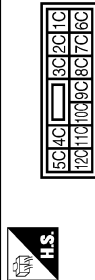
TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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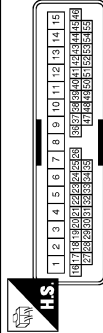
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	HS12PW-CS



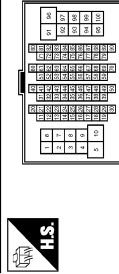
Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



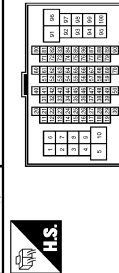
Terminal No.	Color of Wire	Signal Name [Specification]
4	P	-
5	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS18-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
59	V	-
84	G	-
93	Y	-

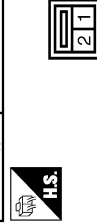
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS18-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	Y	-
33	V	-
41	BR	-
42	R	-
43	W	-
46	L	- [With BOSE audio without NAV]
47	P	- [With BOSE audio without NAV]
48	V	-
57	BR	-
58	Y	-

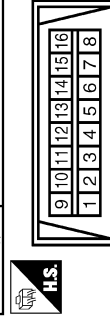
59	SHIELD
60	P
61	L
62	SHIELD
63	R
64	G
65	SHIELD
66	SR
67	V
68	SR
69	SHIELD
70	V
90	O

Connector No.	M13
Connector Name	FRONT SOUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW





Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-



TEL ADAPTER UNIT


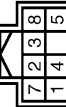
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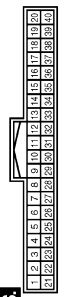
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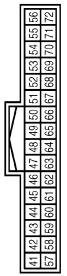
Connector No.	M25	LG	
Connector Name	WIRE TO WIRE	P	
Connector Type	NS16MW-CS		
 			
Terminal No.	Color of Wire	Signal Name [Specification]	
1	L		
2	W		
3	V		
4	LG		
5	Y		
6	G		
7	L		
11	V		
12	SB		
13	Y		
14	Y		



Connector No.	M36	
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)	
Connector Type	TK08FGY-IV	
 		
Terminal No.	Color of Wire	Signal Name [Specification]
24	P	
31	L	
33	B	

Connector No.	M37	
Connector Name	STEERING ANGLE SENSOR	
Connector Type	TH08FW-NH	
 		
Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN

Connector No.	M63	
Connector Name	CENTER SPEAKER	
Connector Type	TK02FBR	
 		
Terminal No.	Color of Wire	Signal Name [Specification]
2	G	

Connector No.	M66	
Connector Name	UNIFIED METER AND A/C AMP.	
Connector Type	TH40FW-NH	
 		
Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Connector No.	M67	
Connector Name	UNIFIED METER AND A/C AMP.	
Connector Type	TH32FW-NH	
 		
Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M69	
Connector Name	BACK-UP LAMP RELAY	
Connector Type	MS02FL-M2	
 		
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	
2	W	
3	LG	
5	O	

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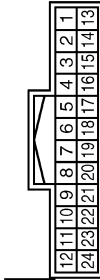
TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M71
Connector Name	DISPLAY UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH



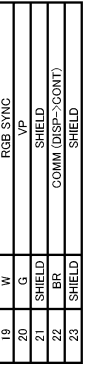
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	INVERTER VCC
3	O	SIGNAL VCC
4	V	COMPOSITE IMAGE GND
5	Y	SHIELD
6	L	RGB (G: GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (YS) SIGNAL
11	Y	COMM (CONT->DISP)
13	BR	INVERTER GND

Connector No.	M82
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	A12FW



Terminal No.	Color of Wire	Signal Name [Specification]
21	W	SATELLITE SOUND SIGNAL LH (-)
22	B	SATELLITE SOUND SIGNAL LH (+)
23	R	SATELLITE SOUND SIGNAL RH (-)
24	G	SATELLITE SOUND SIGNAL RH (+)
25	SHIELD	SHIELD
26	SHIELD	SHIELD
27	SB	MODE CHANGE SIGNAL
28	W	REQUEST (SAT->CONT)
29	B	COMM (SAT->CONT)
30	R	COMM (CONT->SAT)

14	LG	SIGNAL GND
15	SB	COMPOSITE IMAGE SIGNAL
17	G	RGB (R: RED) SIGNAL
18	P	RGB (B: BLUE) SIGNAL
19	W	RGB SYNC
20	G	VP
21	SHIELD	SHIELD
22	BR	COMM (DISP->CONT)
23	SHIELD	SHIELD



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	V	ACC
6	LG	AV COMM (H)
8	V	AV COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL

47	O	SIGNAL VCC
49	Y	SHIELD
50	SHIELD	SHIELD
55	SHIELD	SHIELD
56	Y	COMM (CONT->DISP)
57	G	VP
58	BR	INVERTER GND
59	Y	INVERTER VCC

Connector No.	M81
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
6	P	STRG SW A
7	V	ACC
9	R	ILLUMINATION
15	B	STRG SW GND
16	L	STRG SW B
19	Y	BATTERY
20	B	GND

Connector No.	M84
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
64	SHIELD	SHIELD
65	W	CAMERA IMAGE SIGNAL
66	G	AUX IMAGE SIGNAL
68	W	CONNECTION RECOGNITION
73	SHIELD	SHIELD
74	R	AUX IMAGE GND

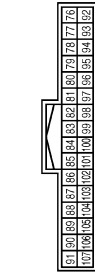
TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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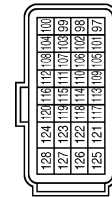
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M85
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH2FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
79	P	TEL VOICE SIGNAL (-)
80	L	TEL VOICE SIGNAL (+)
81	L	SHIELD
82	G	I-Pod SOUND SIGNAL RH (+)
83	B	I-Pod SOUND SIGNAL RH (-)
84	B	SHIELD
85	L	I-Pod SOUND SIGNAL RH (+)
86	L	I-Pod SOUND SIGNAL RH (-)
87	P	CAN-H
88	LG	CAN-L
89	Y	AV COMM (H)
90	L	AV COMM (L)
91	L	AV COMM (H)
92	L	AV COMM (L)
93	L	AV COMM (H)
94	L	AV COMM (L)
95	L	AV COMM (H)
96	L	AV COMM (L)
97	L	AV COMM (H)

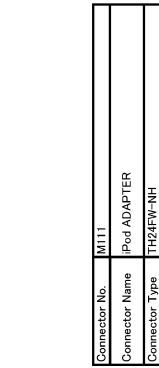
Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-R28-R-LH-Z



Terminal No.	Color of Wire	Signal Name [Specification]
114	L	VEHCAN-LI
113	P	VEHCAN-LI
114	L	VEHCAN-HI

Terminal No.	Color of Wire	Signal Name [Specification]
90	G	AV COMM (H) [With rear view monitor]
91	P	AV COMM (L) [Without rear view monitor]
91	R	AV COMM (L) [With rear view monitor]
95	B	AUX SOUND SIGNAL RH (+)
96	R	AUX SOUND SIGNAL LH (+)
97	W	AUX SOUND SIGNAL GND
98	W	I-Pod SOUND SIGNAL LH (+)
99	R	I-Pod SOUND SIGNAL LH (-)
101	BR	SW GND
103	SB	DISK EJECT SIGNAL
104	G	IGNITION
105	O	REVERSE
106	V	PARKING BRAKE
107	R	VEHICLE SPEED (8-PULSE)

Connector No.	M111
Connector Name	I-Pod ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	G	I-Pod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	I-Pod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	I-Pod SOUND SIGNAL GND
24	B	I-Pod SOUND SIGNAL LH (+)

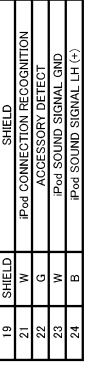
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	I-Pod SOUND SIGNAL LH (+)
2	B	I-Pod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (I-Pod ADAPTER->I-Pod)
10	L	COMM (I-Pod->I-Pod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	R	I-Pod SOUND SIGNAL RH (+)
13	W	I-Pod SOUND SIGNAL LH (-)

Connector No.	M86
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
108	BR	SOUND SIGNAL REAR RH (+)
109	R	SOUND SIGNAL FRONT RH (+)
110	V	AMP_ON SIGNAL
111	SHIELD	SHIELD
112	V	SOUND SIGNAL REAR LH (+)
113	P	SOUND SIGNAL FRONT LH (+)
114	Y	SOUND SIGNAL REAR RH (-)
115	G	SOUND SIGNAL FRONT RH (-)
118	SB	SOUND SIGNAL REAR LH (-)
119	L	SOUND SIGNAL FRONT LH (-)

Connector No.	M112
Connector Name	I-Pod SIDE
Connector Type	IP18FGY



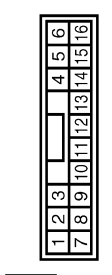
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	I-Pod SOUND SIGNAL LH (+)
2	W	I-Pod SOUND SIGNAL GND
5	L	COMM (I-Pod->I-Pod ADAPTER)
6	P	COMM (I-Pod ADAPTER->I-Pod)
7	R	I-Pod SOUND SIGNAL RH (+)
9	W	I-Pod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MF-NS



Terminal No.	Color of Wire	Signal Name [Specification]
2	B	- [Without NAVI]
3	W	- [Without NAVI]
4	R	- [Without NAVI]

Connector No.	M112
Connector Name	I-Pod SIDE
Connector Type	IP18FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	I-Pod SOUND SIGNAL LH (+)
2	W	I-Pod SOUND SIGNAL GND
5	L	COMM (I-Pod->I-Pod ADAPTER)
6	P	COMM (I-Pod ADAPTER->I-Pod)
7	R	I-Pod SOUND SIGNAL RH (+)
9	W	I-Pod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

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TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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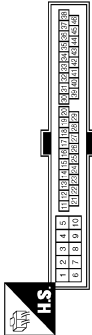
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M114
Connector Name	FRONT SQUAWKER RH
Connector Type	TK02FBR



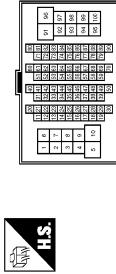
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	— [With BOSE audio]
2	LG	— [With BOSE audio]

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK3BMV-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
31	W	—

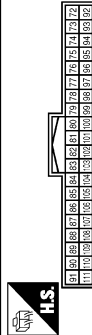
Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH02MW-CS18-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
34	LG	—
35	Y	—
40	Y	—
41	G	—
42	O	—
43	B	—
44	R	—
45	W	—
46	SHIELD	—
47	P	—
48	L	—

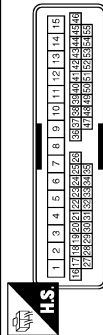
49	SHIELD	—
50	V	—
77	Y	—
78	W	—
79	B	—
83	V	—
84	SHIELD	—
85	R	—
86	SHIELD	—
87	W	—
88	R	—
89	B	—
90	G	—
99	V	— [With BOSE audio]
100	SD	— [With BOSE audio]

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



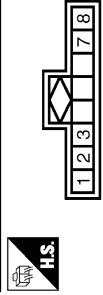
Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	—
8	LG	—

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	—
6	W	—

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	A08FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	AUX SOUND SIGNAL RH (+)
2	W	AUX SOUND SIGNAL GND
3	R	AUX SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

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TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M333
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY



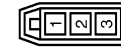
Terminal No.	Color of Wire	Signal Name [Specification]
14	W	-
15	L	-
17	BR	-

Connector No.	M370
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	GT15SH-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
33	-	FM SUB
34	-	AM-FM MAIN
35	-	ANTENNA AMP ON SIGNAL

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



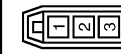
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M386
Connector Name	ANTENNA BASE
Connector Type	GT13SSN-1/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP ON SIGNAL
2	-	AM-FM MAIN

Connector No.	M387
Connector Name	WIRE TO WIRE
Connector Type	1JASO JACK



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

JCNWM0759GI

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TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M388
Connector Name	WIRE TO WIRE
Connector Type	JASO PLUS



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M389
Connector Name	WINDOW ANTENNA (SUB)
Connector Type	PROTIB-A



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-RS8



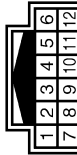
Terminal No.	Color of Wire	Signal Name [Specification]
2	G	- [Without NAV]
3	Y	- [Without NAV]
4	SHIELD	-

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	- [Without NAV]
5	Y	- [Without NAV]

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	-
5	R	-

Connector No.	R17
Connector Name	MICROPHONE
Connector Type	TKG4FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
4	R	MICROPHONE VCC

SYMPTOM DIAGNOSIS

MULTI AV SYSTEM SYMPTOMS

Symptom Table

INFOID:000000003508744

OPERATION

Symptoms	Check items	Possible malfunction location / Action to take
Multifunction switch and preset switch operation does not work.	<ul style="list-style-type: none"> All switches cannot be operated. "MULTI AV" is displayed on system selection screen when the CONSULT-III is started. 	<ul style="list-style-type: none"> Multifunction switch power supply and ground circuit. AV communication circuit between AV control unit and multifunction switch. Perform CONSULT-III self-diagnosis. Refer to AV-201, "CONSULT-III Function (MULTI AV)".
	<ul style="list-style-type: none"> All switches cannot be operated. "MULTI AV" is not displayed on system selection screen when the CONSULT-III is started. 	AV control unit power supply and ground circuit malfunction. Refer to AV-218, "AV CONTROL UNIT : Diagnosis Procedure".
	Only specified switch cannot be operated.	Multifunction switch or preset switch malfunction. Perform multifunction switch and preset switch self-diagnosis function. Refer to AV-219, "MULTIFUNCTION SWITCH : Diagnosis Procedure".

RELATED TO HANDS-FREE PHONE

Basic Inspection

- Check that the cellular phone is corresponding type (Bluetooth® correspond) when the hands-free related malfunction vehicle is in service before performing a diagnosis.
- There is a case that malfunction occurs due to the version change of the phone type, etc. even though it is a corresponding type. Therefore, confirm it by changing the cellular phone to another corresponding type phone, and check that it operates normally. It is necessary to distinguish whether the cause is the vehicle or cellular phone.

Simple check for Bluetooth® communication

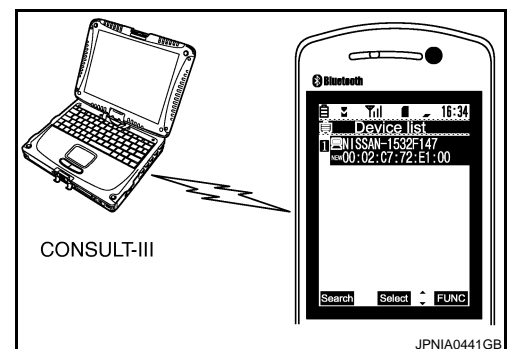
- If cellular phone and AV control unit cannot be connected with Bluetooth® communication, following procedure allows the technician to judge which device has malfunction.

- Turn on a cellular phone, not connecting Bluetooth® communication.
- Start CONSULT-III, then start Windows®.
- Set CONSULT-III near a cellular phone.
- When operated Bluetooth® registration by cellular phone, check if CONSULT-III* would be displayed on the device name. (If other Bluetooth® device is located near cellular phone, a name of the device would be displayed also.)

NOTE:

*:Displayed device name is "NISSAN-*****".

- If no device name is displayed, cellular phone is malfunctioning. Repair the cellular phone first, then perform diagnosis.
- If CONSULT-III is displayed on device name, cellular phone is normal. Perform diagnosis as per the following table.



On board self-diagnosis of hands-free phone system

Always perform the on board self-diagnosis at first after completing the basic inspection when the malfunction is detected on the hands-free phone system. Narrow down possible causes using the Diagnosis Chart if there is no malfunction in the on board self-diagnosis.

Trouble diagnosis chart by symptom

MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITHOUT NAVIGATION]

< SYMPTOM DIAGNOSIS >

Symptoms	Check items	Probable malfunction location
Does not recognize cellular phone connection. (No connection is displayed on the display at the guide.)	Repeat the registration of cellular phone.	TEL adapter unit malfunction. Refer to AV-432, "Exploded View" .
Hands-free phone cannot be established.	Both the reception and the speech cannot be performed.	<ul style="list-style-type: none"> Perform CONSULT-III self-diagnosis. Refer to AV-201, "CONSULT-III Function (MULTI AV)". No malfunction. TEL adapter unit malfunction. Refer to AV-432, "Exploded View". Malfunction is detected. Refer to AV-201, "CONSULT-III Function (MULTI AV)".
The other party's voice cannot be heard by hands-free phone.	The operation of the "☞" switch can be performed.	TEL voice signal circuit malfunction between TEL adapter unit and AV control unit.
	The operation of the "☞" switch cannot be performed.	Control signal circuit. Refer to AV-240, "Diagnosis Procedure" .
Originating sound is not heard by the other party with hands-free phone communication.	Sound operation function is normal.	TEL adapter unit. Refer to AV-432, "Exploded View" .
	Sound operation function does not work.	Microphone signal circuit. Refer to AV-238, "Diagnosis Procedure" .

RELATED TO RGB IMAGE

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take
RGB image is not shown.	There is malfunction in the CONSULT-III self-diagnosis result.	Perform CONSULT-III self-diagnosis. Refer to AV-201, "CONSULT-III Function (MULTI AV)" .
	There is no malfunction in CONSULT-III self-diagnosis results.	<ul style="list-style-type: none"> Display unit power supply and ground circuit. Refer to AV-218, "DISPLAY UNIT : Diagnosis Procedure". Vertical synchronizing (VP) signal circuit. Refer to AV-230, "Diagnosis Procedure".
Color of RGB image is not proper.	Light blue (Cyan) tint.	RGB signal (R: red) circuit. Refer to AV-224, "Diagnosis Procedure" .
	Purple (Magenta) tint.	RGB signal (G: green) circuit. Refer to AV-225, "Diagnosis Procedure" .
	Screen looks yellowish.	RGB signal (B: blue) circuit. Refer to AV-226, "Diagnosis Procedure" .
RGB screen is rolling.	—	RGB synchronizing signal circuit. Refer to AV-227, "Diagnosis Procedure" .
Fuel economy display is malfunctioning.	There is malfunction in the CONSULT-III self-diagnosis result.	Perform CONSULT-III self-diagnosis. Refer to AV-201, "CONSULT-III Function (MULTI AV)" .
	There is no malfunction in CONSULT-III self-diagnosis results.	Ignition signal circuit malfunction. Refer to AV-218, "AV CONTROL UNIT : Diagnosis Procedure" .

RELATED TO AUDIO

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take
The CD cannot be removed.	—	Disk eject signal circuit. Refer to AV-233, "Diagnosis Procedure" .

MULTI AV SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Symptoms	Check items	Possible malfunction location / Action to take
Audio sound is not heard.	No sound from all speakers.	<ul style="list-style-type: none"> BOSE amp. power supply and ground circuit. Refer to AV-220, "BOSE AMP. : Diagnosis Procedure". Amp. ON signal circuit
	Sound is not heard from woofer.	<ul style="list-style-type: none"> Woofer power supply and ground circuit. Sound signal woofer circuit between BOSE amp. and woofer. Woofer ON signal circuit between BOSE amp. and woofer.
	Sound is not heard from center speaker.	Sound signal center speaker circuit.
	Sound is heard only from specific places (RH front, RH rear, LH front and LH rear).	Sound signal circuit of malfunctioning system.
It does not change to "Driver's Audio Stage" mode.	—	Mode change signal circuit. Refer to AV-241, "Diagnosis Procedure" .
Satellite radio is not received.	"ANTENNA" is not displayed even when the channel is turned to 0 in Satellite radio mode.	Perform the following inspection procedure. <ol style="list-style-type: none"> Check satellite radio antenna mounting nut for looseness. NOTE: Tightening torque: 6.5 N·m (0.66 kg·m, 58 in·lb.) Visually check for satellite radio antenna feeder. Replace the satellite radio antenna. Refer to AV-422, "Exploded View". Replace the satellite radio tuner. Refer to AV-421, "Exploded View".
	"ANTENNA" is displayed when the channel is turned to 0 in Satellite radio mode.	Perform the following inspection procedure. <ol style="list-style-type: none"> Check the connection between Satellite radio tuner and antenna feeder. Check the connection between Satellite radio antenna and antenna feeder. Check Antenna feeder for open circuit. Replace the satellite radio antenna. Refer to AV-422, "Exploded View". Replace the satellite radio tuner. Refer to AV-421, "Exploded View".
The sound of Satellite radio is not heard.	Other audio sounds are normal.	Satellite radio sound signal circuit between AV control unit and satellite radio tuner.
It does not change to Satellite radio mode.	There is malfunction in the CONSULT-III self-diagnosis result.	Perform CONSULT-III self-diagnosis. Refer to AV-201, "CONSULT-III Function (MULTI AV)" .
AM/FM radio is not received.	Other audio sounds are normal.	<ul style="list-style-type: none"> Antenna amp. ON signal circuit. Antenna feeder.

RELATED TO iPod®

Trouble diagnosis chart by symptom

Connect another iPod® and check if the symptom is reproduced or not. If the symptom is reproduced, diagnose the vehicle. If no malfunction is detected, replace the iPod harness.

NOTE:

It is unable to check that between iPod® and iPod harness.

Symptoms	Check items	Possible malfunction location / Action to take
The sound of iPod® is not heard.	Other audio sounds are normal.	<ul style="list-style-type: none"> iPod sound signal circuit between AV control unit and iPod adapter. iPod sound signal circuit between iPod® and iPod adapter.
It does not change to iPod mode.	There is malfunction in the CONSULT-III self-diagnosis.	Perform CONSULT-III self-diagnosis. Refer to AV-201, "CONSULT-III Function (MULTI AV)" .
"iPod is not connected" is displayed when it comes to iPod mode.	Connected to iPod®.	iPod connection recognition signal circuit between iPod® and iPod adapter.

MULTI AV SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Symptoms	Check items	Possible malfunction location / Action to take
iPod® cannot charge the battery.	—	iPod battery charge circuit between iPod® and iPod adapter.
The title of music file in the iPod® is not indicated.	—	Communication circuit between iPod® and iPod adapter.
Accessing the iPod® is unavailable from the vehicle.		

RELATED TO STEERING SWITCH

Trouble diagnosis chart by symptom

Symptoms	Probable malfunction location
None of the steering switch operations work.	Steering switch signal GND circuit. Refer to AV-251, "Diagnosis Procedure" .
Only specified switch cannot be operated.	Steering switch.
"SOURCE", "MENU UP", "MENU DOWN", "⏪ ⏩" switches of steering switch are not operated.	Steering switch signal A circuit. Refer to AV-247, "Diagnosis Procedure" .
"VOL UP", "VOL DOWN", "⏮ ⏭" switches of steering switch are not operated.	Steering switch signal B circuit. Refer to AV-249, "Diagnosis Procedure" .

RELATED TO AUX

NOTE:

Check that there is no malfunction of AUX equipment main body before performing a diagnosis.

Trouble diagnosis chart by symptom

Symptoms	Check items	Probable malfunction location
No voice sound is heard when AUX mode is selected.	Voice sound is heard when other modes are selected.	AUX sound signal circuits malfunction between auxiliary input jacks and AV control unit.
Image is not displayed when AUX mode is selected.	—	<ul style="list-style-type: none"> • AUX image signal circuit malfunction between auxiliary input jacks and AV control unit. Refer to AV-231, "Diagnosis Procedure". • Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and display unit. Refer to AV-229, "Diagnosis Procedure". • Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit. Refer to AV-230, "Diagnosis Procedure". • RGB area (YS) signal circuit malfunction between AV control unit and display unit. Refer to AV-228, "Diagnosis Procedure".
	Camera image is normal (with rear view monitor)	AUX image signal circuit malfunction between auxiliary input jacks and AV control unit. Refer to AV-231, "Diagnosis Procedure" .
	Camera image is not displayed. (with rear view monitor)	<ul style="list-style-type: none"> • Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and display unit. Refer to AV-229, "Diagnosis Procedure". • Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit. Refer to AV-230, "Diagnosis Procedure". • RGB area (YS) signal circuit malfunction between AV control unit and display unit. Refer to AV-228, "Diagnosis Procedure".
It does not change from AUX mode to other modes.	—	<ul style="list-style-type: none"> • Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit. Refer to AV-230, "Diagnosis Procedure". • Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and display unit. Refer to AV-229, "Diagnosis Procedure".

RELATED TO REAR VIEW MONITOR

MULTI AV SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Trouble diagnosis chart by symptom

Symptoms	Check items	Probable malfunction location
Camera image is not displayed (displayed in black and nothing can be displayed)	AUX image is not displayed.	<ul style="list-style-type: none"> Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and display unit. Refer to AV-229, "Diagnosis Procedure". Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit. Refer to AV-230, "Diagnosis Procedure".
Camera image is not shown. (Guiding line is displayed.)	—	<ul style="list-style-type: none"> Camera image signal circuit between camera control unit and rear view camera. Rear view camera power supply circuit. Refer to AV-235, "Diagnosis Procedure".
Camera image is not displayed. (Only warning message under area is displayed.)	There is malfunction in the CONSULT-III self-diagnosis result.	Perform detected DTC self-diagnosis. Refer to AV-201, "CONSULT-III Function (MULTI AV)" .
	AUX image is normal.	Camera image signal circuit malfunction between camera control unit and AV control unit. Refer to AV-236, "Diagnosis Procedure" .
	AUX image is not displayed.	RGB area (YS) signal circuit malfunction between AV control unit and display unit. Refer to AV-228, "Diagnosis Procedure" .
	Select "Camera Cont." of "Confirmation/Adjustment" mode, Reverse Sensor is not turned ON at "Connection Confirmation".	Reverse signal circuit (camera control unit).
Camera image is rolling.	AUX image is also rolling.	Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit. Refer to AV-230, "Diagnosis Procedure" .
Camera image does not switch.	Malfunction of self-diagnosis result is indicated.	Camera-connection recognition signal circuit. Refer to AV-201, "CONSULT-III Function (MULTI AV)" .
	Malfunction of self-diagnosis result is not indicated.	Reverse signal circuit (AV control unit).
The predicted course line display is malfunctioning.	—	Sensor signal circuit malfunction. Refer to AV-245, "Diagnosis Procedure" .

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AV

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

NORMAL OPERATING CONDITION

Description

INFOID:000000003508745

Vehicle operation information, refer to 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 system is in the video mode.	Push <DISC> to change the mode.
	The display is turned off.	Push <Day/Night> to turn on the display.
The screen is too dim. The movement is slow.	The temperature in the interior of the vehicle is low.	Wait until the interior of the vehicle has warmed up.
Some pixels in the display are darker or brighter than others.	This condition is an inherent characteristic of liquid crystal displays.	This is not a malfunction.
Some menu items cannot be selected.	Some menu items become unavailable while the vehicle is driven.	Park the vehicle in a safe location, and then operate the multi AV system.

RELATED TO VOICE RECOGNITION

Related to telephone

The system should respond correctly to all voice commands without difficulty. If problems are encountered, try the following solutions.

Where the solutions are listed by number, try each solution in turn, starting with number 1, until the problem is resolved.

Symptom	Solution
System fails to interpret the command correctly.	1. Ensure that the command is valid.
	2. Ensure that the command is spoken after the tone.
	3. Speak clearly without pausing between words and at level appropriate to the ambient noise level in the vehicle.
	4. Ensure that the ambient noise level is not excessive (for example, windows open or defroster on). NOTE: If it is too noisy to use the phone, it is likely that the voice commands will be recognized.
	5. If more than one command was said at a time, try saying the commands separately.
	6. If the system consistently fails to recognize commands, the voice training procedure should be carried out to improve the recognition response for the speaker. See "Speaker adaptation (SA) mode" earlier in this section. Refer to "OWNER'S MANUAL".
The system consistently selects the wrong voicetag	1. Ensure that the phone book entry name requested matches what was originally stored. This can be confirmed by using the "List Names" command.
	2. Replace one of the names being confused with a new name.

RELATED TO AUDIO

- The majority of the audio malfunctions are the result of outside causes (bad CD/cassette, electromagnetic interference, etc.). Check the symptoms below to diagnose the malfunction.
- The vehicle itself can be a source of noise if noise prevention parts or electrical equipment is malfunctioning. Check if noise is caused and/or changed by engine speed, ignition switch turned to each position, and operation of each piece of electrical equipment, and then determine the cause.

NOTE:

- CD-R is not guaranteed to play because they can contain compressed audio (MP3, WMA) or could be incorrectly mastered by the customer on a computer.
- Check if the CDs carry the Compact Disc Logo. If not, the disc is not mastered to the "red book" Compact Disc Standard and may not play.

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Symptom	Cause and Counter measure
Cannot play	Check if the CD was inserted correctly.
	Check if the CD is scratched or dirty.
	Check if there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.
	If there is a temperature increase error, the player will play correctly after it returns to the normal temperature.
	If there is a mixture of music CD files (CD-DA data) and MP3/WMA files on a CD, only the music CD files (CD-DA data) will be played.
	Files with extensions other than ".MP3", ".WMA", ".mp3", or ".wma" cannot be played. In addition, the character codes and number of characters for folder names and file names should be in compliance with the specifications.
	Check if the disc or the file is generated in an irregular format, This may occur depending on the variation or the setting of MP3/WMA writing applications or other text editing applications.
	Check if the finalization process, such as session close and disc close, is done for the disc.
Poor sound quality	Check if the CD is scratched or dirty.
	It takes a relatively long time before the music starts playing.
Music cuts off or skips	The writing software and hardware combination might not match, or the writing speed, writing depth, writing width might not match the specifications. Try using the slowest writing speed.
Skipping with high bit rate files	Skipping may occur with large quantities if data such as for high bit rate data.
Move immediately to the next song when playing	When a non-MP3/WMA file has been given an extension of ".MP3", ".WMA", ".mp3", or ".wma", or when play is prohibited by copyright protection, the player will skip to the next song.
The songs do not play back in the desired order.	The playback order is the order in which the files were written by the software, so the files might not play in the desired order.

Noise resulting from variations in field strength, such as fading noise and multi-path noise, or external noise from trains and other sources, is not a malfunction.

NOTE:

- Fading noise: This noise occurs because of variations in the field strength in a narrow range due to mountains or buildings blocking the signal.
- Multi-path noise: This noise results from a time difference between the broadcast waves directly from the station arriving at the antenna and the waves reflected by mountains or buildings.

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AV

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000003703418

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 AIRBAG" 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 AIRBAG".
- 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.

Precaution for Trouble Diagnosis

INFOID:000000003508747

AV COMMUNICATION SYSTEM

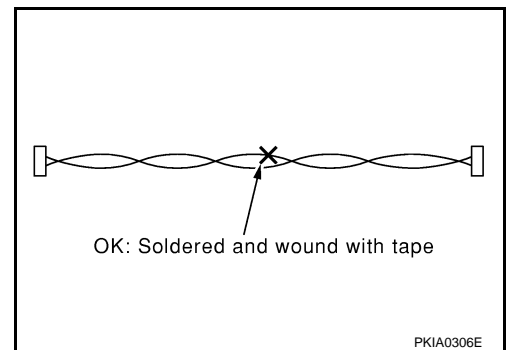
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

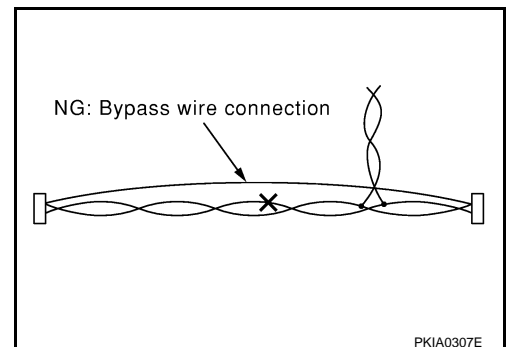
INFOID:000000003508748

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 >

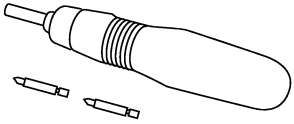
[BOSE AUDIO WITHOUT NAVIGATION]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000003757506

Tool name	Description
<p>Power tool</p>  <p>PBIC0191E</p>	<p>Loosening screws</p>

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AV

ON-VEHICLE REPAIR

AV CONTROL UNIT

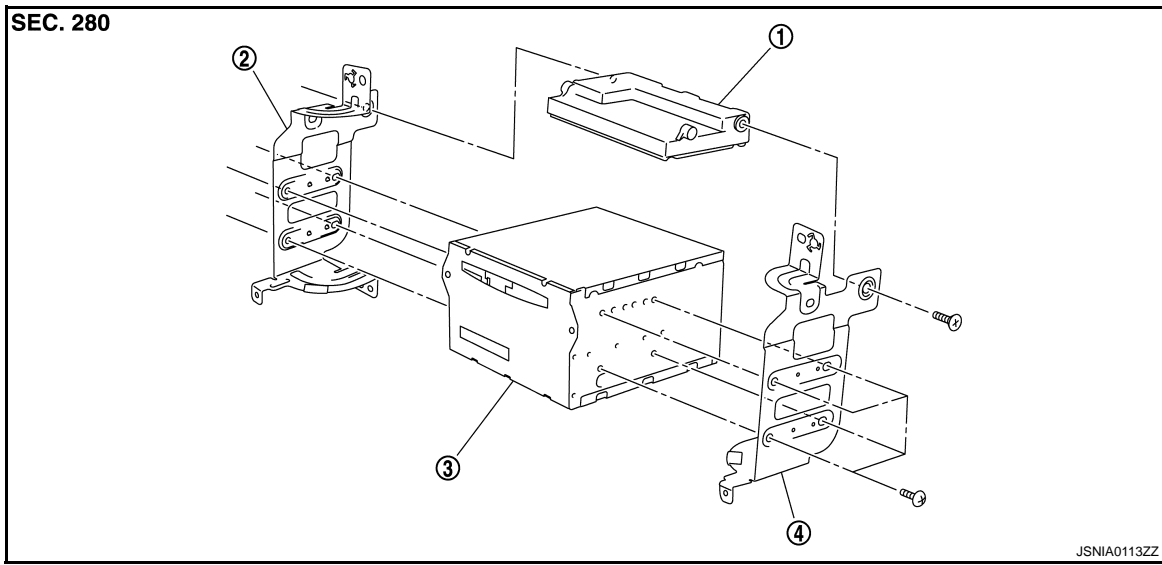
Exploded View

INFOID:000000003573743

REMOVAL

Refer to [IP-11. "Exploded View"](#).

DISASSEMBLY



- | | | |
|-------------------------------|---------------|--------------------|
| 1. Unified meter and A/C amp. | 2. Bracket LH | 3. AV control unit |
| 4. Bracket RH | | |

Removal and Installation

INFOID:000000003573744

REMOVAL

1. Remove display unit.
2. Remove AV control unit with a unified meter and A/C amp. as a single unit from the body.
3. Remove bracket screws, and then remove AV control unit.

INSTALLATION

Installation is the reverse order of removal.

CAUTION:

Since AV control unit connector and unified meter and A/C amp. connector have the same form, be careful not to insert them wrongly.

DISPLAY UNIT

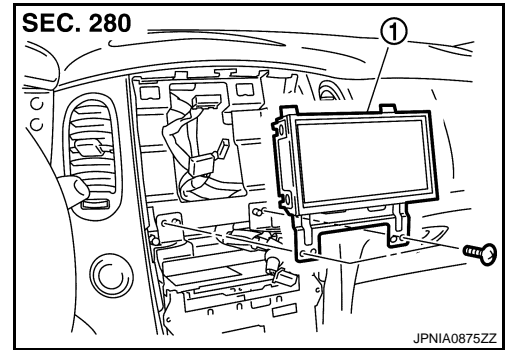
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

DISPLAY UNIT

Exploded View

INFOID:000000003573745



1. Display unit

Removal and Installation

INFOID:000000003573746

REMOVAL

1. Remove cluster lid D. Refer to [IP-11. "Exploded View"](#).
2. Remove display unit mounting screws.
3. Remove display unit.

INSTALLATION

Installation is the reverse order of removal.

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AV

FRONT DOOR SPEAKER

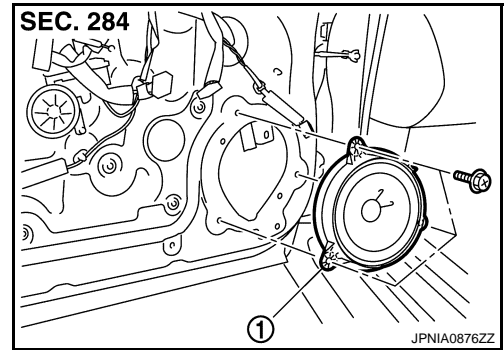
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

FRONT DOOR SPEAKER

Exploded View

INFOID:000000003573747



1. Front door speaker

Removal and Installation

INFOID:000000003573748

REMOVAL

1. Remove front door finisher. Refer to [INT-11, "DRIVER SIDE : Exploded View"](#) (driver side) or [INT-14, "PASSENGER SIDE : Exploded View"](#) (passenger side).
2. Remove front door speaker mounting bolts, disconnect the front door speaker connector.
3. Remove front door speaker.

INSTALLATION

Installation is the reverse order of removal.

REAR DOOR SPEAKER

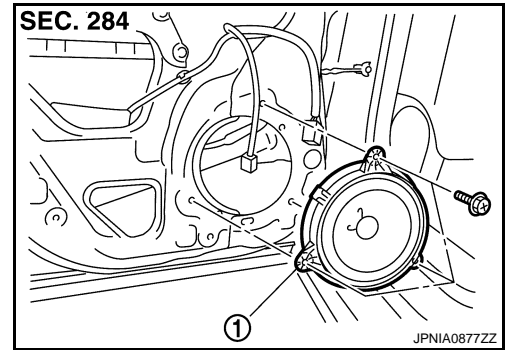
[BOSE AUDIO WITHOUT NAVIGATION]

< ON-VEHICLE REPAIR >

REAR DOOR SPEAKER

Exploded View

INFOID:000000003573749



1. Rear door speaker

Removal and Installation

INFOID:000000003573750

REMOVAL

1. Remove rear door finisher. Refer to [INT-17, "Exploded View"](#).
2. Remove rear door speaker mounting bolts, disconnect the rear door speaker connector.
3. Remove rear door speaker.

INSTALLATION

Installation is the reverse order of removal.

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AV

FRONT SQUAWKER

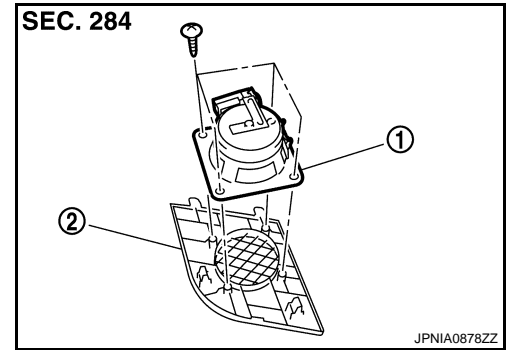
[BOSE AUDIO WITHOUT NAVIGATION]

< ON-VEHICLE REPAIR >

FRONT SQUAWKER

Exploded View

INFOID:000000003573751



1. Front squawker
2. Speaker grille

Removal and Installation

INFOID:000000003573752

REMOVAL

1. Lift up the speaker grille with squawker. Refer to [IP-11, "Exploded View"](#).
2. Disconnect the front squawker connector.
3. Remove front squawker mounting screws.
4. Remove front squawker.

INSTALLATION

Installation is the reverse order of removal.

REAR SQUAWKER

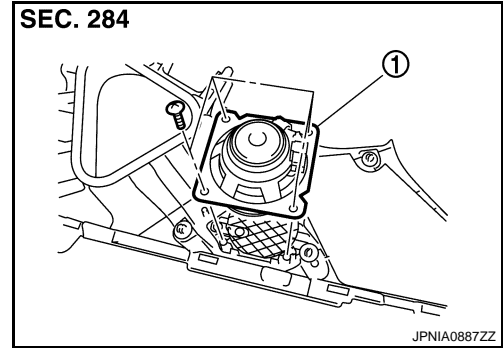
[BOSE AUDIO WITHOUT NAVIGATION]

< ON-VEHICLE REPAIR >

REAR SQUAWKER

Exploded View

INFOID:000000003573753



1. Rear squawker

Removal and Installation

INFOID:000000003573754

REMOVAL

1. Remove luggage side finisher upper. Refer to [INT-34, "Exploded View"](#).
2. Remove rear squawker mounting screws.
3. Remove rear squawker.

INSTALLATION

Installation is the reverse order of removal.

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AV

CENTER SPEAKER

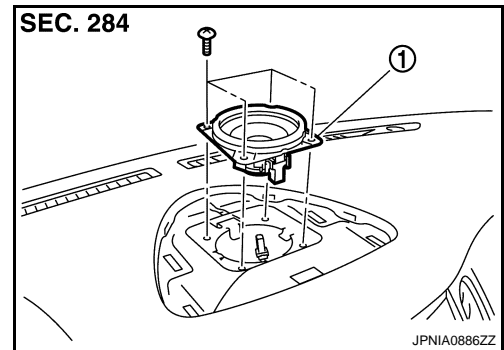
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

CENTER SPEAKER

Exploded View

INFOID:000000003573755



1. Center speaker

Removal and Installation

INFOID:000000003573756

REMOVAL

1. Remove center speaker grille. Refer to [JP-11, "Exploded View"](#).
2. Remove center speaker mounting screws, lift up the center speaker and disconnect center speaker connector.
3. Remove center speaker.

INSTALLATION

Installation is the reverse order of removal.

WOOFER

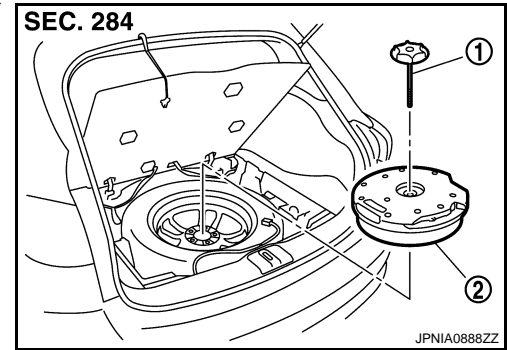
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

WOOFER

Exploded View

INFOID:000000003573757



1. Woofer clamp
2. Woofer

Removal and Installation

INFOID:000000003573758

REMOVAL

1. Remove Luggage finisher center. Refer to [INT-34, "Exploded View"](#).
2. Remove woofer clamp.
3. Remove harness clip and woofer connector.
4. Remove woofer.

INSTALLATION

Installation is the reverse order of removal.

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AV

BOSE AMP.

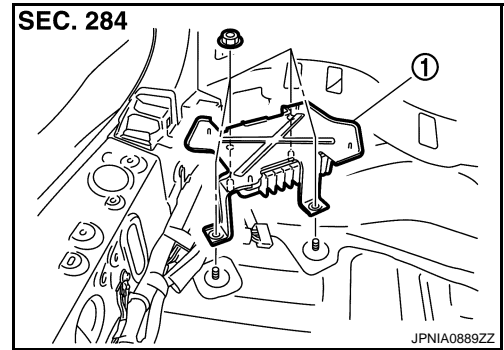
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

BOSE AMP.

Exploded View

INFOID:000000003573759



1. BOSE amp.

Removal and Installation

INFOID:000000003573760

REMOVAL

1. Remove Luggage floor spacer (LH). Refer to [INT-34. "Exploded View"](#).
2. Remove BOSE amp. mounting nuts.
3. Remove BOSE amp..

INSTALLATION

Installation is the reverse order of removal.

SATELLITE RADIO TUNER

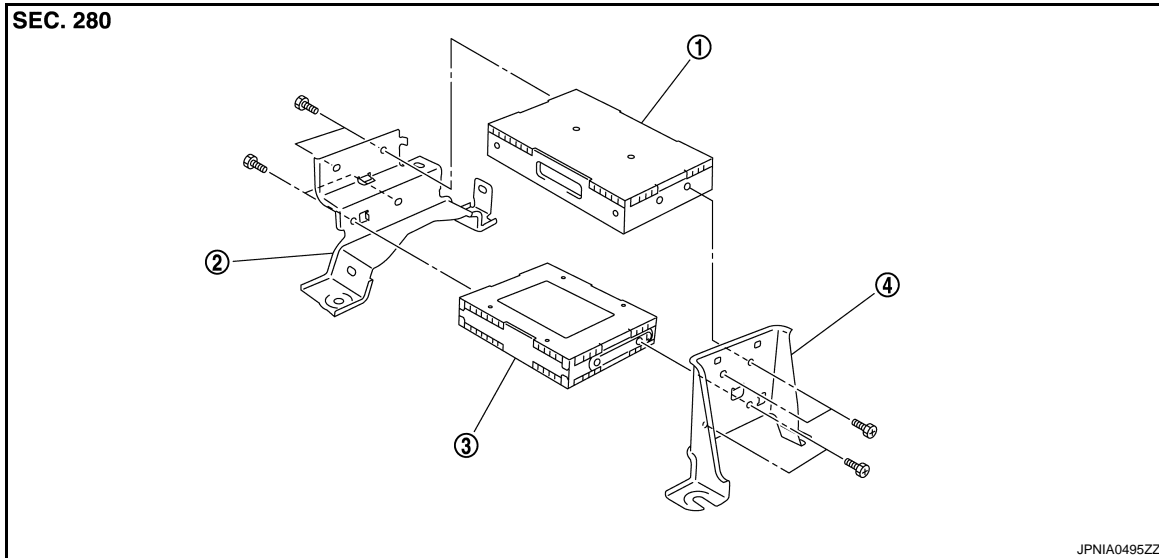
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

SATELLITE RADIO TUNER

Exploded View

INFOID:000000003508772



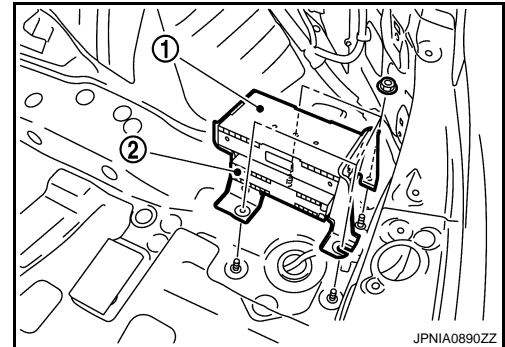
1. TEL adapter unit
2. Bracket (front)
3. Satellite radio tuner
4. Bracket (rear)

Removal and Installation

INFOID:000000003508773

REMOVAL

1. Remove luggage floor spacer (RH). Refer to [INT-34, "Exploded View"](#).
2. Remove nuts, and then remove TEL adapter unit (1) and satellite radio tuner (2).



INSTALLATION

Install in the reverse order of removal.

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ANTENNA BASE

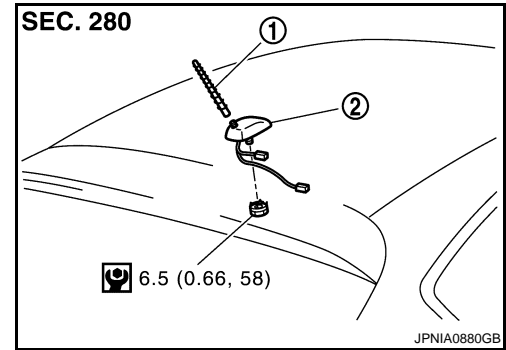
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

ANTENNA BASE

Exploded View

INFOID:000000003508774



1. Antenna rod
2. Antenna base

Refer to [GI-4. "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000003569877

REMOVAL

1. Remove headlining (rear). Keep a service area. Refer to [INT-26. "NORMAL ROOF : Exploded View"](#) (normal roof) or [INT-30. "SUNROOF : Exploded View"](#) (sunroof).
2. Remove antenna base mounting nut.
3. Remove antenna base.

INSTALLATION

Installation is the reverse order of removal.

Antenna base mounting nut : 6.5 N·m (0.66 kg·m, 58 in·lb)

CAUTION:

Be careful about tightening torque. Antenna sensitivity becomes poor, and when it is excessive, roof panel may be deformed, when roof antenna mounting nut tightening torque is loose.

MULTIFUNCTION SWITCH

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

MULTIFUNCTION SWITCH

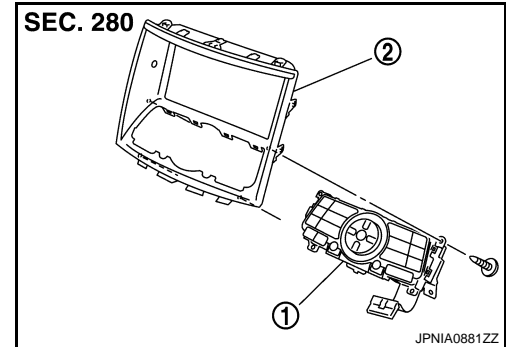
Exploded View

INFOID:000000003573761

REMOVAL

Refer to [IP-11, "Exploded View"](#).

DISASSEMBLY



1. Multifunction switch
2. Cluster lid D

Removal and Installation

INFOID:000000003573762

REMOVAL

1. Remove cluster lid D. Refer to [IP-11, "Exploded View"](#).
2. Remove multifunction switch mounting screws.
3. Remove multifunction switch.

INSTALLATION

Installation is the reverse order of removal.

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AV

PRESET SWITCH

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

PRESET SWITCH

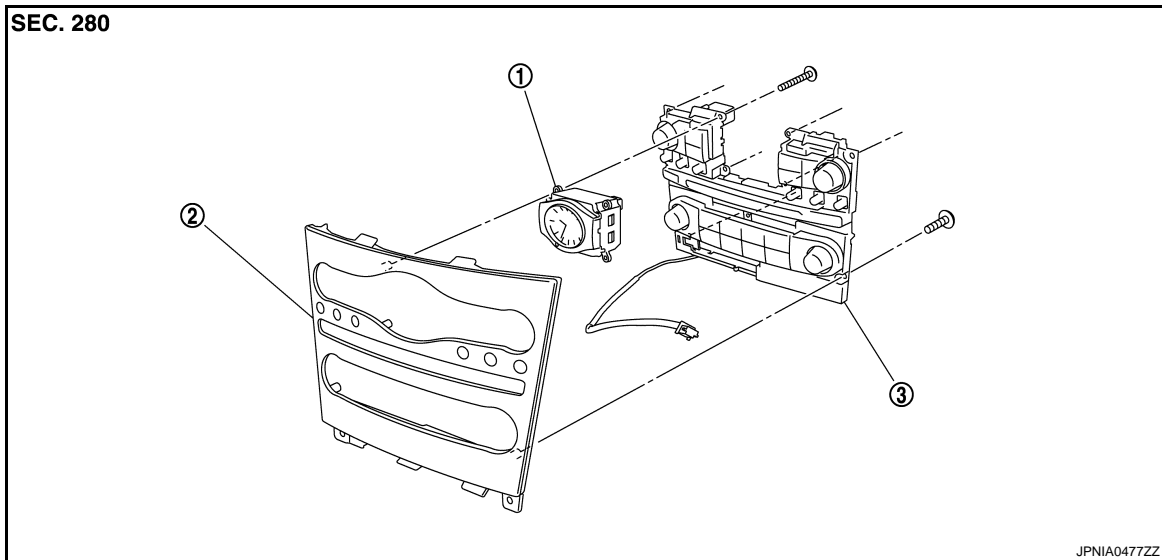
Exploded View

INFOID:000000003573763

REMOVAL

Refer to [IP-11, "Exploded View"](#).

DISASSEMBLY



1. Clock

2. Cluster lid C

3. Preset switch

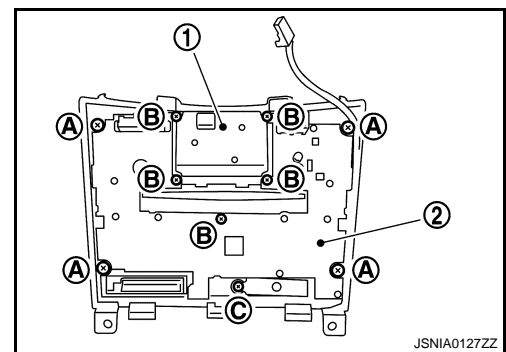
Removal and Installation

INFOID:000000003573764

REMOVAL

1. Remove cluster lid C. Refer to [IP-11, "Exploded View"](#).
2. Remove preset switch mounting screws.
3. Remove preset switch.

1. Clock
2. Preset switch
- A. Screw
- B. Screw
- C. Screw



INSTALLATION

Installation is the reverse order of removal.

NOTE:

When installing preset switch, do not allow the print wire that connects preset switch and multifunction switch to get caught in between AV control unit and preset switch.

IPOD ADAPTER

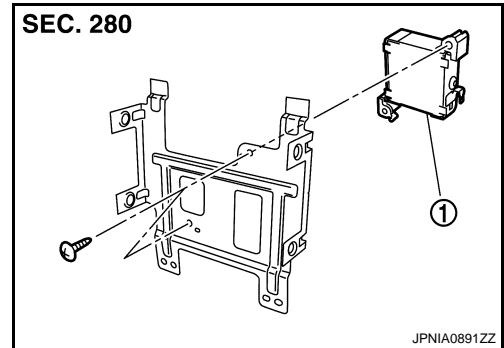
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

IPOD ADAPTER

Exploded View

INFOID:000000003573765



1. iPod adapter

Removal and Installation

INFOID:000000003573766

REMOVAL

1. Remove display unit with bracket. Refer to [IP-11, "Exploded View"](#).
2. Remove display from display bracket.
3. Remove iPod adapter mounting screws.
4. Remove iPod adapter.

INSTALLATION

Install in the reverse order of removal.

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IPOD CONNECTOR

[BOSE AUDIO WITHOUT NAVIGATION]

< ON-VEHICLE REPAIR >

IPOD CONNECTOR

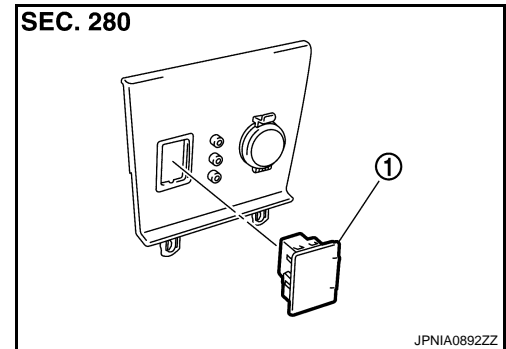
Exploded View

INFOID:000000003573767

REMOVAL

Refer to [IP-22. "Exploded View"](#).

DISASSEMBLY



1. iPod connector

Removal and Installation

INFOID:000000003573768

REMOVAL

1. Remove console finisher. Refer to [IP-22. "Exploded View"](#).
2. Push the pawl from the back of console finisher to remove iPod connector.

INSTALLATION

Install in the reverse order of removal.

AUXILIARY INPUT JACKS

[BOSE AUDIO WITHOUT NAVIGATION]

< ON-VEHICLE REPAIR >

AUXILIARY INPUT JACKS

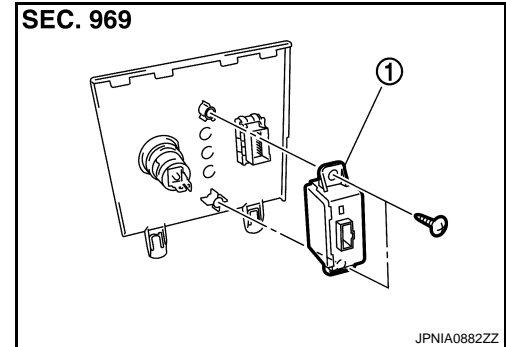
Exploded View

INFOID:000000003573770

REMOVAL

Refer to [IP-22, "Exploded View"](#).

DISASSEMBLY



1. Auxiliary input jacks

Removal and Installation

INFOID:000000003573771

REMOVAL

1. Remove console finisher. Refer to [IP-22, "Exploded View"](#).
2. Remove auxiliary mounting screws.
3. Remove auxiliary input jacks.

INSTALLATION

Installation is the reverse order of removal.

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AV

MICROPHONE

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

MICROPHONE

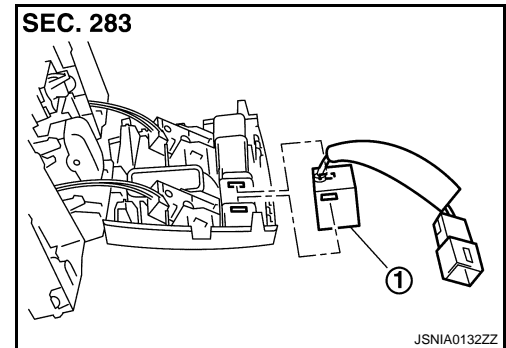
Exploded View

INFOID:000000003573772

REMOVAL

Refer to [INT-26. "NORMAL ROOF : Exploded View"](#) (normal roof) or [INT-30. "SUNROOF : Exploded View"](#) (sunroof).

DISASSEMBLY



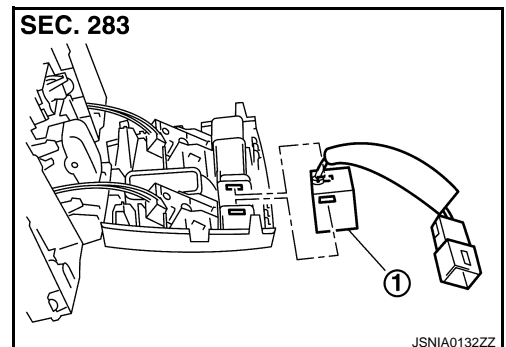
1. Microphone

Removal and Installation

INFOID:000000003573773

REMOVAL

1. Remove map lamp assembly. Refer to [INT-26. "NORMAL ROOF : Exploded View"](#) (normal roof) or [INT-30. "SUNROOF : Exploded View"](#) (sunroof).
2. Remove microphone (1), stretching pawls of map lamp assembly.



INSTALLATION

Installation is the reverse order of removal.

CAMERA CONTROL UNIT

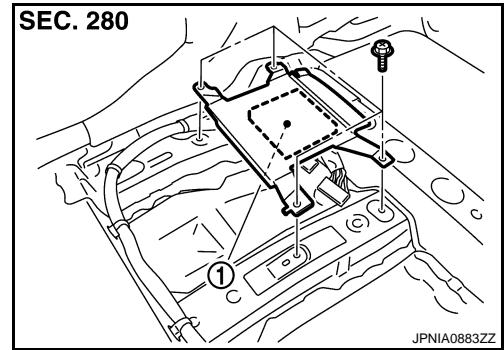
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

CAMERA CONTROL UNIT

Exploded View

INFOID:000000003573774



1. Camera control unit

Removal and Installation

INFOID:000000003573775

REMOVAL

1. Remove front seat (LH side). Refer to [SE-87. "Exploded View"](#).
2. Remove floor carpet. Keep a service area.
3. Remove camera control unit.

INSTALLATION

1. Installation is the reverse order of removal.
2. Perform predicted course line center position adjustment. Refer to [AV-174. "PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement"](#).

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REAR VIEW CAMERA

< ON-VEHICLE REPAIR >

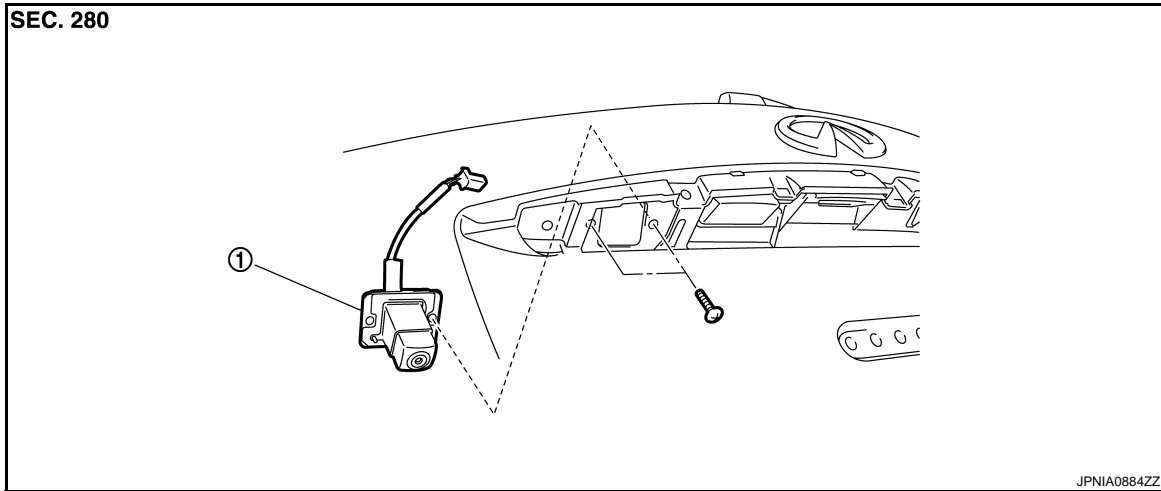
[BOSE AUDIO WITHOUT NAVIGATION]

REAR VIEW CAMERA

Exploded View

INFOID:000000003573777

DISASSEMBLY



1. Rear view camera

Removal and Installation

INFOID:000000003573778

REMOVAL

1. Remove back door finisher inner. Refer to [INT-38, "Exploded View"](#).
2. Remove back door outside finisher upper. Refer to [EXT-48, "Exploded View"](#).
3. Remove back door outside finisher lower. Refer to [EXT-48, "Exploded View"](#).
4. Remove rear view camera mounting screws and rear view camera harness connector.
5. Remove rear view camera.

INSTALLATION

1. Installation is the reverse order of removal.
2. Adjust the guide line position if the guide line position is shifted after installing the rear view camera. Refer to [AV-431, "Adjustment"](#).

REAR VIEW CAMERA

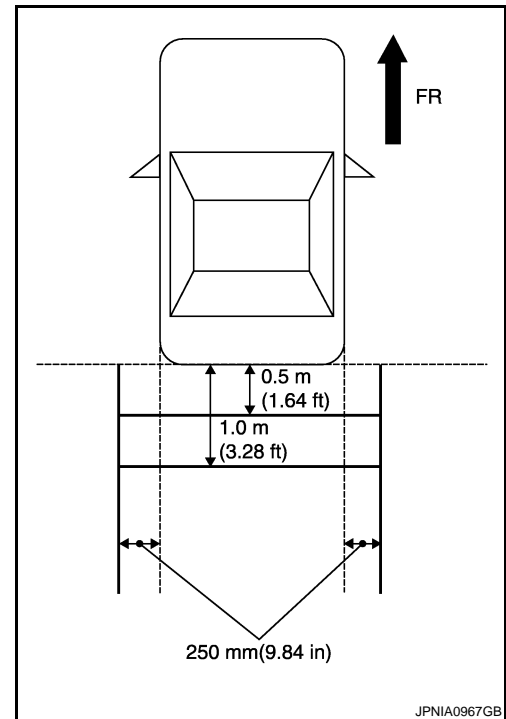
[BOSE AUDIO WITHOUT NAVIGATION]

< ON-VEHICLE REPAIR >

INFOID:000000003579616

Adjustment

1. Draw lines on rearward area of the vehicle passing through the following points: 250 mm (9.84 in) from both sides of the vehicle, and 0.5 m (1.64 ft), 1.0 m (3.28 ft) from the rear end of the bumper.
2. Set into "Adjust offset of rear view camera" mode of Confirmation/Adjustment mode.



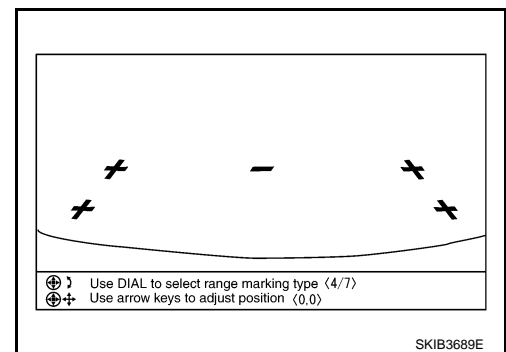
3. Rotate the center dial, and then select the guiding line pattern so that its angle is aligned with the correction line of the rear of the vehicle.

Selected pattern : 7

4. Make fine adjustment to the correction line of the rear of the vehicle with up/down/left/right switches so that its position is aligned with the guiding line. Press ""

Up/Down adjustment range : -20 - 20

Left/Right adjustment range : -20 - 20



CAUTION:

Never operate other function such as pressing BACK while writing index data.

If Confirmation/Adjustment mode does not function in the above procedure, perform one of the following service to adjust the index again.

- Remove battery for five min. Then reconnect battery.
- Remove camera control unit connector for five min. Then reconnect camera control unit connector.

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TEL ADAPTER UNIT

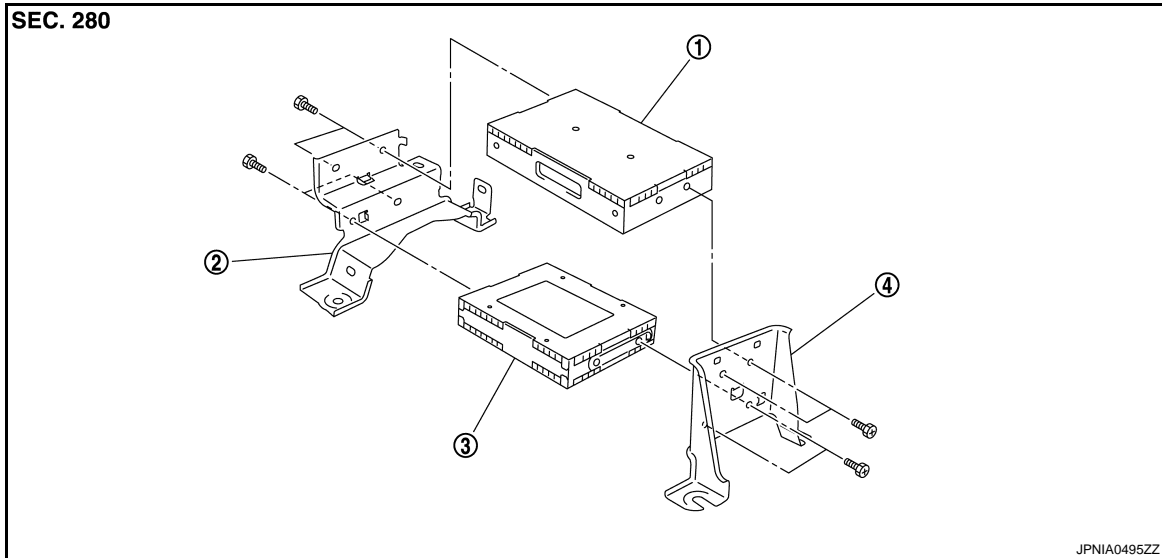
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

TEL ADAPTER UNIT

Exploded View

INFOID:000000003508790



1. TEL adapter unit

2. Bracket (front)

3. Satellite radio tuner

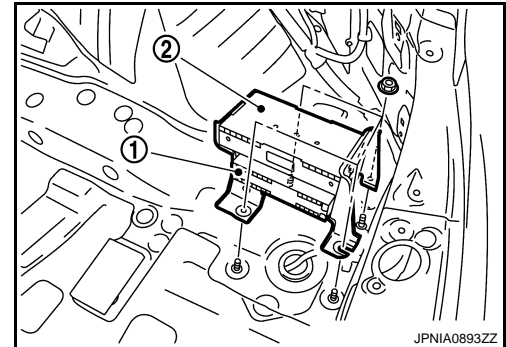
4. Bracket (rear)

Removal and Installation

INFOID:000000003508791

REMOVAL

1. Remove luggage floor spacer (RH). Refer to [INT-34, "Exploded View"](#).
2. Remove nuts, and then remove satellite radio tuner (1) and TEL adapter unit (2).



INSTALLATION

Install in the reverse order of removal.

STEERING ANGLE SENSOR

[BOSE AUDIO WITHOUT NAVIGATION]

< ON-VEHICLE REPAIR >

STEERING ANGLE SENSOR

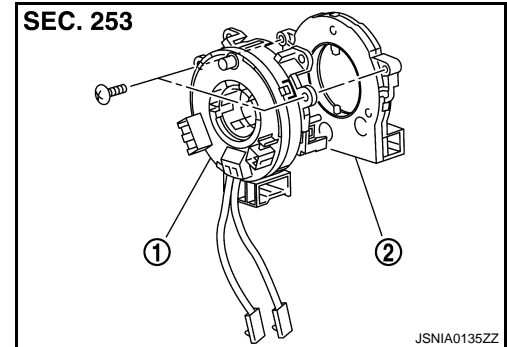
Exploded View

INFOID:000000003573780

REMOVAL

Refer to [SR-6. "Exploded View"](#).

DISASSEMBLY



1. Spiral cable
2. Steering angle sensor

Removal and Installation

INFOID:000000003573781

REMOVAL

1. Remove spiral cable.
2. Remove steering angle sensor mounting screws.
3. Remove steering angle sensor.

INSTALLATION

Installation is the reverse order of removal.

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AV

ANTENNA FEEDER

< ON-VEHICLE REPAIR >

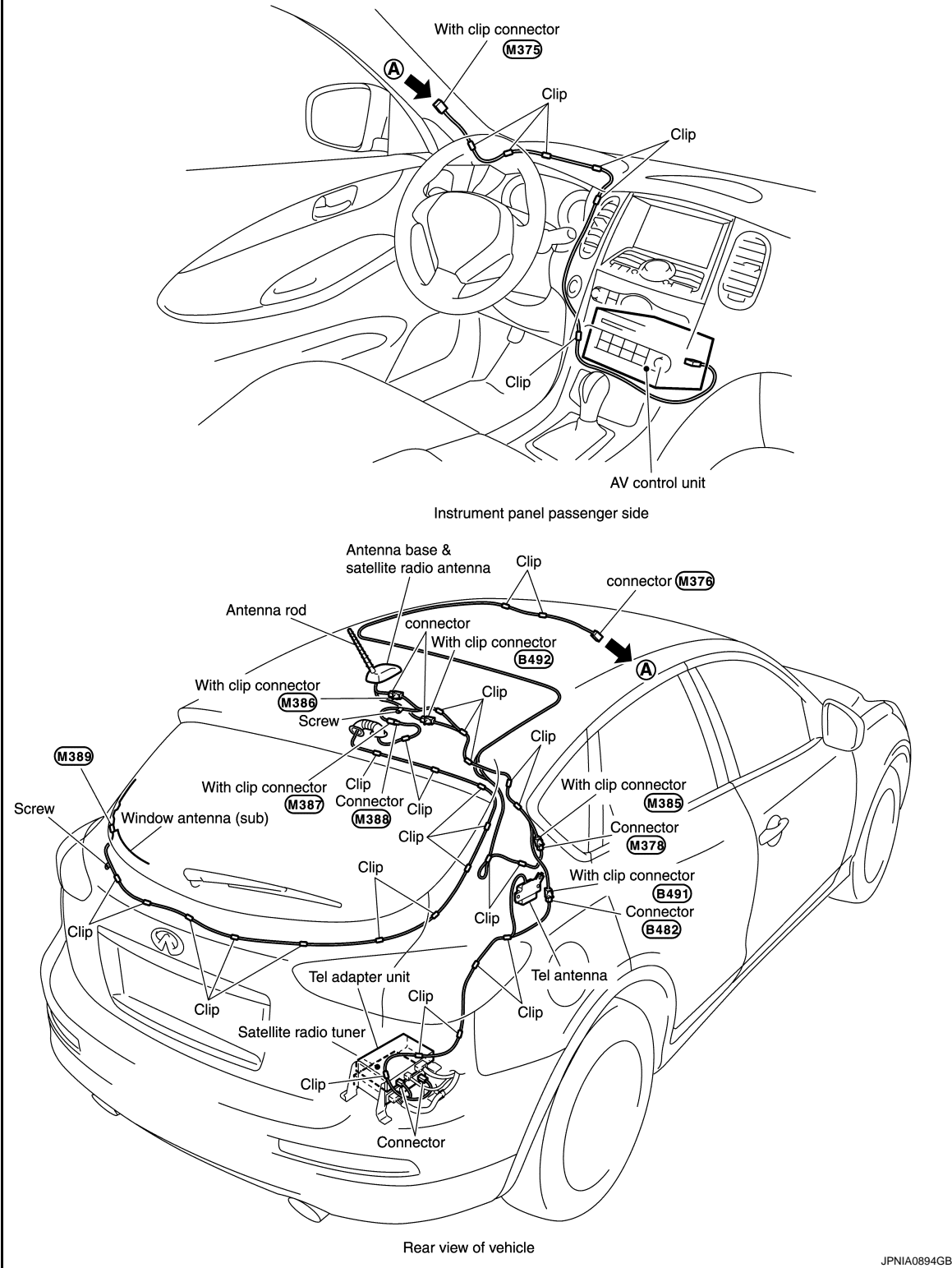
[BOSE AUDIO WITHOUT NAVIGATION]

ANTENNA FEEDER

Harness Layout

INFOID:000000003569878

SEC. 280



JPNIA0894GB

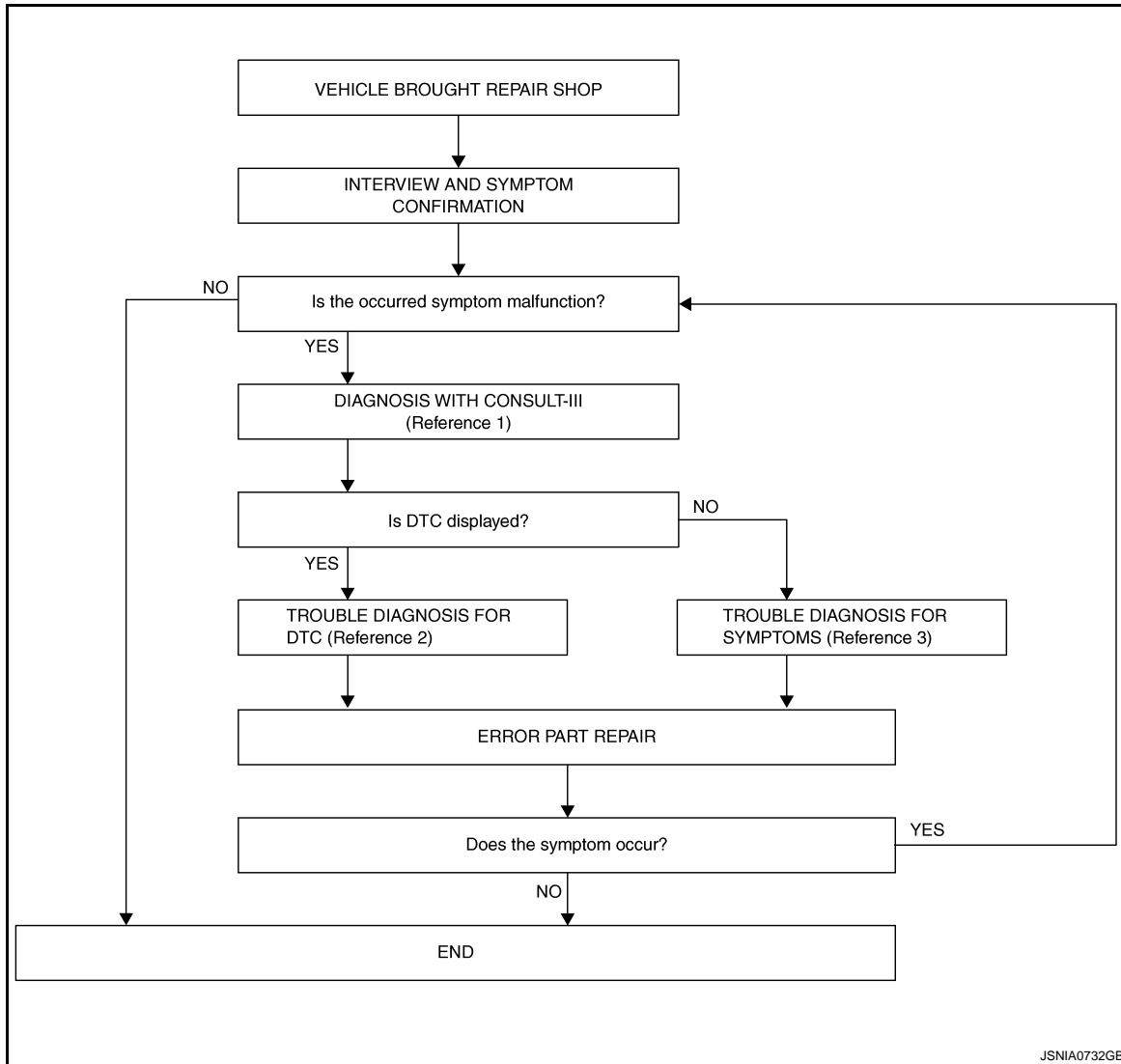
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000003160896

OVERALL SEQUENCE



- Reference 1... Refer to [AV-498. "CONSULT-III Function \(MULTI AV\)".](#)
- Reference 2... Refer to [AV-651. "DTC Index".](#)
- Reference 3... Refer to [AV-889. "Symptom Table".](#)

DETAILED FLOW

1. INTERVIEW AND SYMPTOM CONFIRMATION

Check the malfunction symptoms by performing the following items.

- Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred).
- Check the symptom.

Is the occurred symptom malfunction?

YES >> GO TO 2.

NO >> INSPECTION END

2. DIAGNOSIS WITH CONSULT-III

DIAGNOSIS AND REPAIR WORKFLOW

[BOSE AUDIO WITH NAVIGATION]

< BASIC INSPECTION >

1. Connect CONSULT-III and perform a self-diagnosis for "MULTI AV". Refer to [AV-498. "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-651. "DTC Index".](#)

>> GO TO 5.

4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to [AV-889. "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

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[BOSE AUDIO WITH NAVIGATION]

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:000000003160593

WITH REAR VIEW MONITOR OR AROUND VIEW MONITOR

Always correct the center position of the predicted course line after disconnecting the battery negative terminal.

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:000000003160594

1. CORRECTION OF CENTER POSITION OF PREDICTED COURSE LINE

Refer to the following for details.

>> Refer to [AV-437, "PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement"](#).

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000003160595

When camera control unit or around view monitor control unit is replaced, the center position of predicted course line shall be corrected.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:000000003160596

1. CORRECTION OF CENTER POSITION OF PREDICTED COURSE LINE

Refer to the following for details.

>> Refer to [AV-437, "PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement"](#).

PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT

PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Description

INFOID:000000003160597

Adjust the center position of the predicted course line of the rear view monitor if it is shifted.

PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement

INFOID:000000003160598

1. STEERING OPERATION

Steer the steering wheel to the leftmost and rightmost ends.

>> GO TO 2

2. DRIVING

Drive the vehicle straight ahead 100 m (328.1 ft) or more at a speed of 30 km/h (18.6 MPH) or more.

>> END

CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR)

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[BOSE AUDIO WITH NAVIGATION]

CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description

INFOID:000000003166679

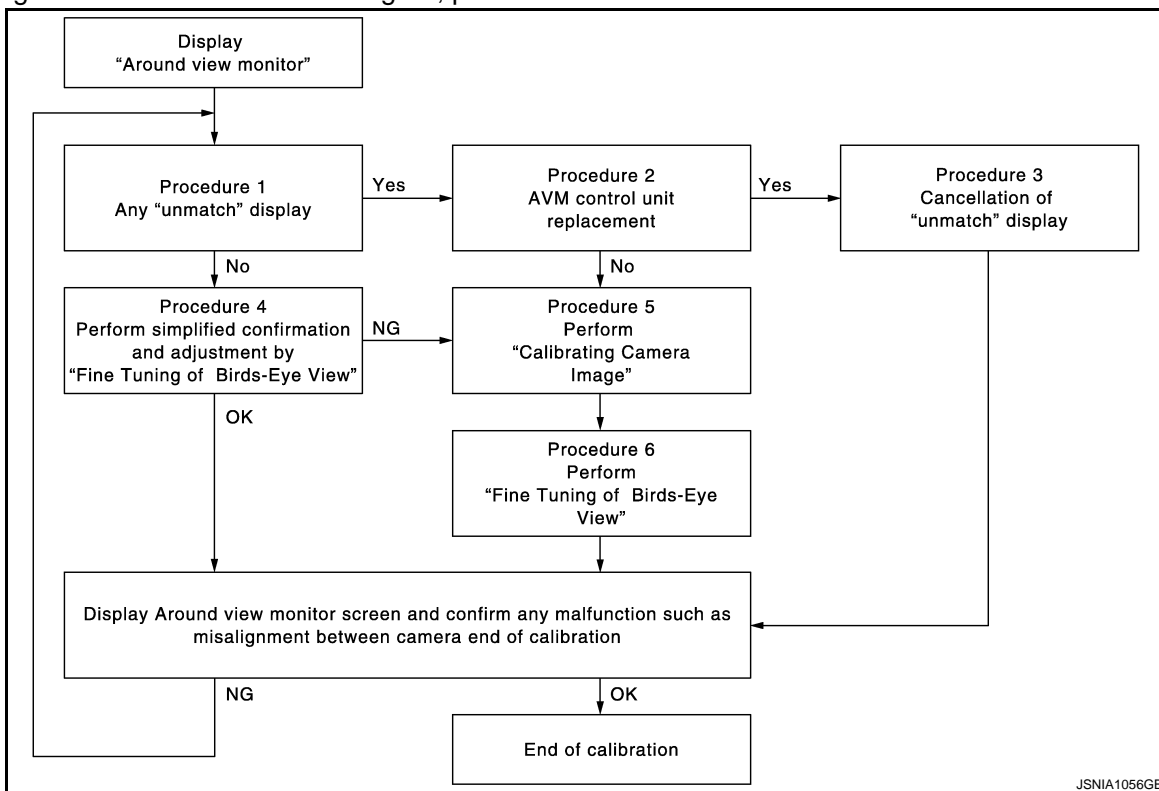
- Perform the calibration and perform the writing to the around view monitor control unit when removing and replacing each camera, removing the camera mounting parts (front grille, door mirror, etc.) and replacing the around view monitor control unit.
- Align the white lines on the road near the vehicle at the boundary of each camera image by this camera calibration. The white lines far from the vehicle may not be aligned at the boundary of each camera image. The farther the line, the greater the difference is.

CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Special Repair Requirement

INFOID:000000003166670

Calibration flowchart

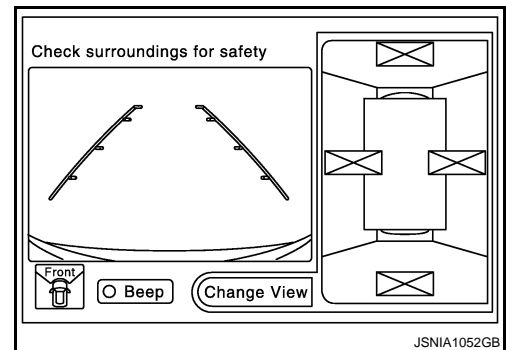
Following the flowchart shown in the figure, perform the calibration.



JSNIA1056GB

NOTE:

In the un-match display, the un-match camera position is indicated as "X" on the birds-eye view.



JSNIA1052GB

Calibration procedure

1. AROUND VIEW MONITOR SCREEN CONFIRMATION

INSPECTION AND ADJUSTMENT

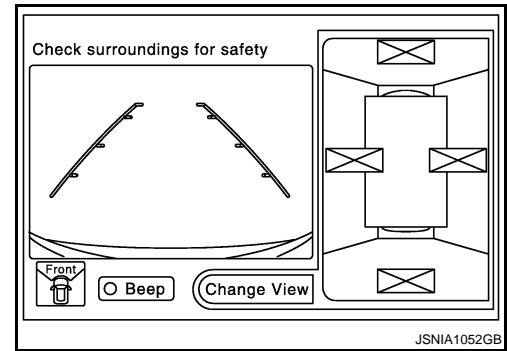
[BOSE AUDIO WITH NAVIGATION]

< BASIC INSPECTION >

Check that there is the un-match display in any camera.

Is the un-match display visible?

- YES >> GO TO 2.
- NO >> GO TO 4.



2. CHECK THAT AROUND VIEW MONITOR CONTROL UNIT IS REPLACED

Check that the around view monitor control unit is replaced.

Is the around view monitor control unit replaced?

- YES >> GO TO 3.
- NO >> GO TO 5.

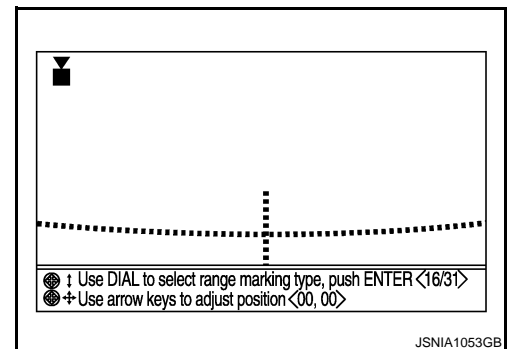
3. RELEASE UN-MATCH DISPLAY (PERFORM ONLY WHEN THE AROUND VIEW MONITOR CONTROL UNIT IS REPLACED)

1. Select "Camera Cont." of Confirmation/ Adjustment mode, and then set to "Calibrating Camera Image" mode.
2. Press the "ENTER" switch of the multifunction switch on each screen of "Rear Camera", "Front Camera", "Dr-Side Camera", "Pass-Side Camera".

CAUTION:

- Do never operate the center dial and up/down/left/right switches. Only press the "ENTER" switch.
- Never perform "Initialize Camera Image Calibration".

3. Display the around view monitor screen, and check that there is no malfunction such as a difference between each camera image.



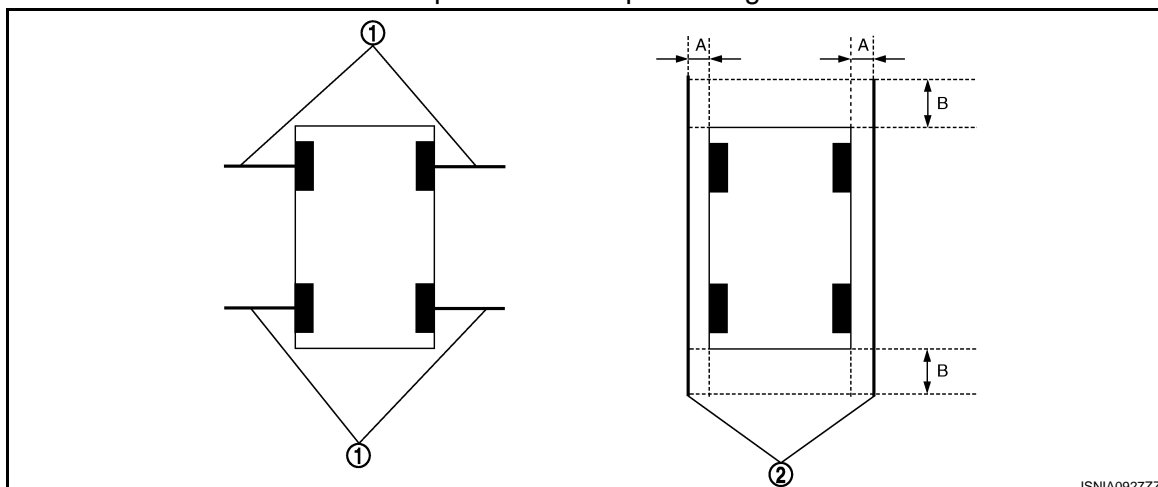
Is there a malfunction?

- YES >> Calibration end
- NO >> GO TO 1.

4. PERFORM SIMPLIFIED CONFIRMATION/ADJUSTMENT BY "FINE TUNING OF BIRDS-EYE VIEW"

1. Put target line 1 on the ground beside each axle using packing tape, etc.
2. Put target lines 2 equal to the vehicle total length + approximately 1.0 m (39.3 in) from the vehicle side (right and left) at approximately 30 cm (11.8 in) away from the vehicle (make the line as parallel with the vehicle as possible)

Preparation of simplified target line



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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

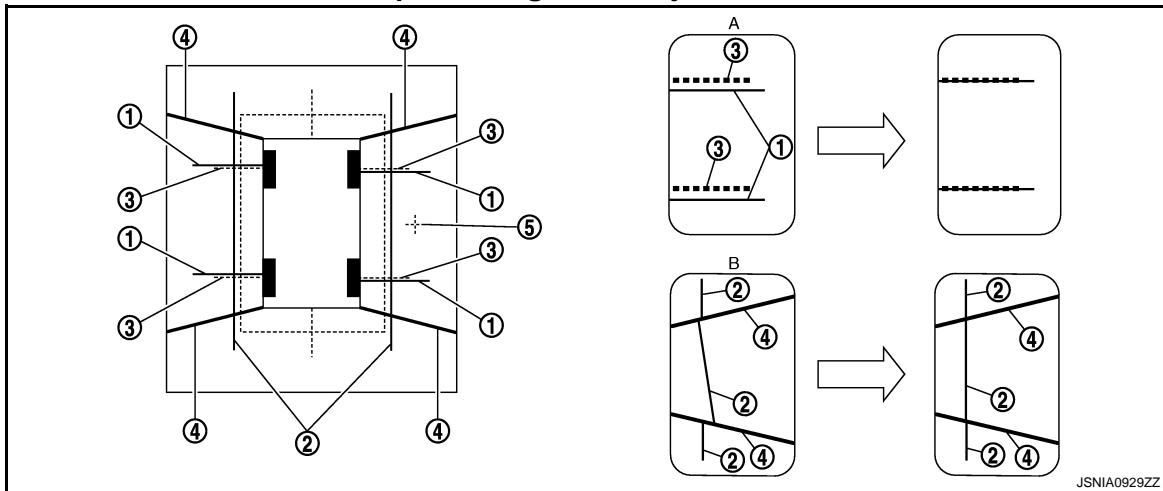
[BOSE AUDIO WITH NAVIGATION]

1. Target lines 1
 - A. Approx. 30 cm (11.8in)
2. Target lines 2
 - B. Approx. 1.0 m (39.3 in)
3. Select "Camera Cont." of Confirmation/ Adjustment mode, and then set to "Fine Tuning of Birds-Eye View-mode."
4. Select left and right cameras by pressing the "CAMERA" switch, and perform the following confirmation.
 - Check that target line 1 is aligned with the marker on the screen. Overlap the line aligned to the marker with the upper/lower switches if necessary.
 - Check if there is a difference between target lines 2 between cameras. Adjust target lines 2 to be straight lines by operating the center dial and left/right switches if necessary.

CAUTION:

- Never adjust the front camera and rear camera. Only adjust the right and left cameras.
- Operate the center dial slowly because the changing of the screen takes approximately 1 second.

Simplified target line adjustment method



1. Target lines 1
 2. Target lines 2
 3. Marker for target line 1
 4. Boundary between cameras
 5. Crosshairs cursor (mark indicated the selected camera)
- A. Adjustment method for target lines 1 (right) B. Adjustment method for target lines 2 (right)

5. Adjust left and right cameras. Check that the difference between target line 1 and the marker on the screen, and between target lines 2 is solved.

NOTE:

- It can be initialized to the NISSAN factory default condition with "Initialize Camera Image Calibration" of "Calibrating Camera Image".
- The adjustment value is cancelled on this mode by performing "Initialize Camera Image Calibration".

Is the difference corrected?

- YES >> Finish the writing to around view monitor control unit by pressing "ENTER" switch.
 NO >> GO TO 5.

5.PERFORM "CALIBRATING CAMERA IMAGE"

Preparation of target line

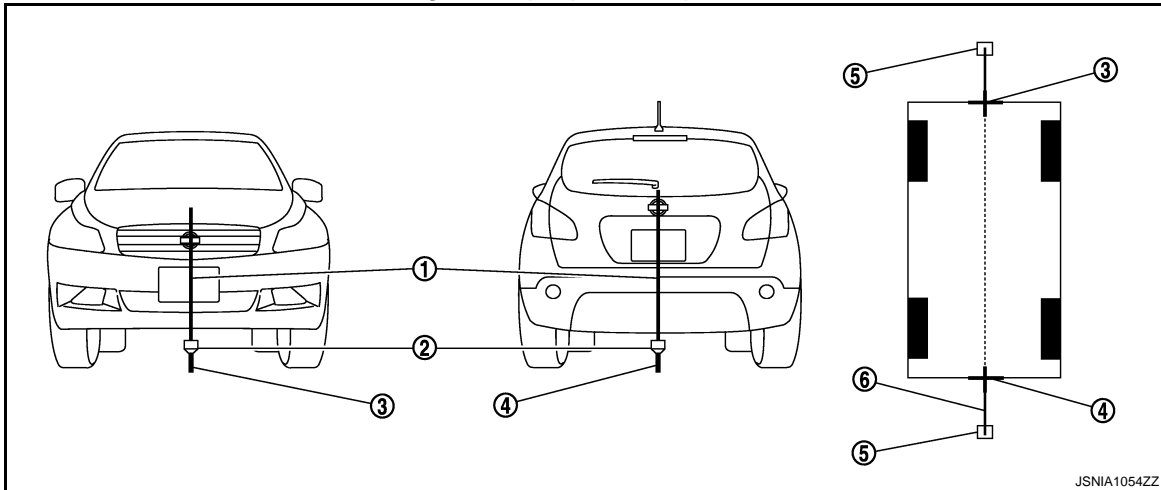
1. Hang a string with a weight as shown in the figure. Put the points FM0, RM0 (mark) on the ground at the center of the vehicle front end and rear end with white packing tape or a pen.
2. Route the vinyl string under the vehicle, and then pull and fix it on the point approximately 1.0 m (39.9 in) to the front and rear of the vehicle through the points FM0 and RM0 using packing tape.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[BOSE AUDIO WITH NAVIGATION]

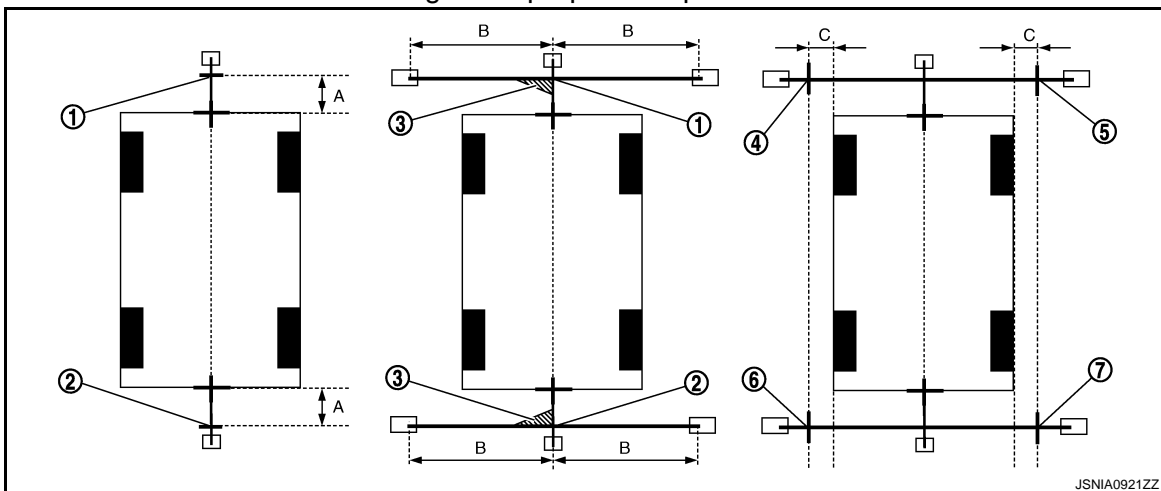
Target line preparation procedure 1



- | | | |
|---------------------|---|---------------------|
| 1. Thread | 2. Weight | 3. Point FM0 (mark) |
| 4. Point RM0 (mark) | 5. Packing tape (to fix the vinyl string) | 6. Vinyl string |

- Put the points FM and RM (mark) 75 cm (29.5 in) from the points FM0 and RM0 individually.
- Route the vinyl string through the points FM and RM using a triangle scale, and then fix it at approximately 1.5 m (59 in) on both sides with packing tape.
- Put the points FL, FR, RL, and RR (mark) to both right and left [vehicle width / 2 + 30 cm (11.8 in)] from the points FM and RM.

Target line preparation procedure 2



- | | | |
|--------------------|--------------------|--------------------|
| 1. Point FM | 2. Point RM | 3. Triangle scale |
| 4. Point FL (mark) | 5. Point FR (mark) | 6. Point RL (mark) |
| 7. Point RR (mark) | | |

- | | | |
|--------------------|--------------------------|--|
| A. 75 cm (29.5 in) | B. Approx. 1.5 m (59 in) | C. 30 cm (11.8 in)
[Vehicle width / 2 + 30 cm (11.8 in)
from the points FM and RM] |
|--------------------|--------------------------|--|

- Draw the lines of the points FL – RL and FR – RR with vinyl string, and fix it with packing tape.
- Put a mark on the center of each axle, draw vertical lines to the lines of the points FL – RL and FR – RR from the marks on the center of the axle using a triangle scale, and then fix the lines using packing tape.

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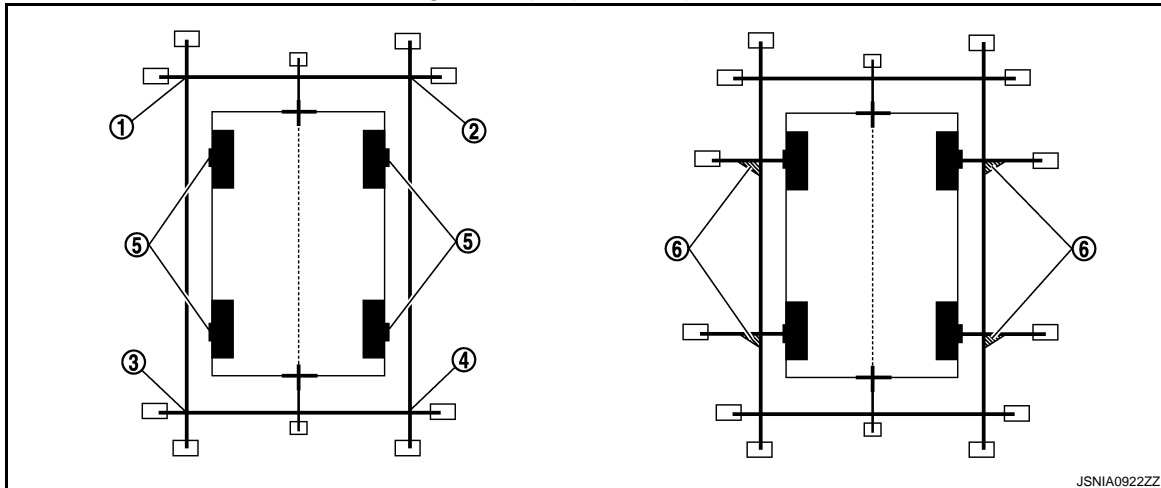
AV

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[BOSE AUDIO WITH NAVIGATION]

Target line preparation procedure 3



- | | | |
|-------------|----------------------------|-------------------|
| 1. Point FL | 2. Point FR | 3. Point RL |
| 4. Point RR | 5. Center position of axle | 6. Triangle scale |

Perform "Calibrating Camera Image"

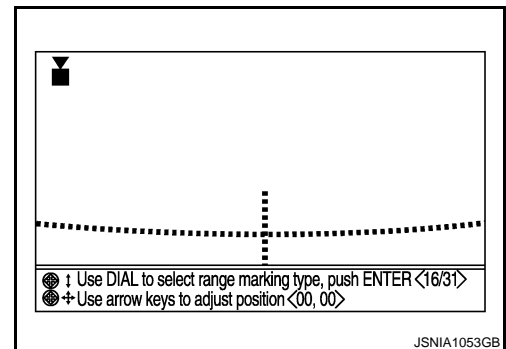
1. Select "Camera Cont." of "Confirmation/ Adjustment" mode, and then set to "Calibrating Camera Image" mode.
2. Overlap the target lines drawn on the ground with the calibration marker on the screen by operating the center dial and upper/lower/left/right switches of multifunction switch on each screen of "Rear Camera", "Pass-Side Camera", "Front Camera", "Dr-Side Camera".

Adjustment range

Rotation direction (Center dial) : 31 patterns (16 on the center)

Upper/lower direction (upper/lower switch) : -99 - 99

Left/right direction (left/right switch) : -99 - 99



3. "Writing..." is displayed by pressing the "ENTER" switch, and then the adjustment result is written to the around view monitor control unit.

CAUTION:

Check that "Writing..." is displayed. Do never perform other operations while "Writing..." is displayed.

>> GO TO 6.

6.PERFORM "FINE TUNING OF BIRDS-EYE VIEW"

This mode is designed to align the boundary between each camera image that could not be aligned in the "Calibrating Camera Image" mode.

1. Select "Camera Cont." of "Confirmation/ Adjustment" mode, and then set to "Fine Tuning of Birds-Eye View" mode.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[BOSE AUDIO WITH NAVIGATION]

2. Operate the center dial and upper/lower/left/right switch to overlap the marker on the screen and the target lines on the ground.
NOTE:
Move the “+”- mark on the camera position to adjustment by pressing the “CAMERA” switch.
3. When the target line is overlapped on the marker, press the “ENTER” switch to write the adjustment result to the around view monitor control unit.

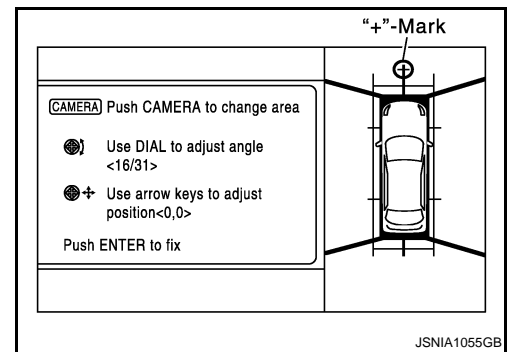
CAUTION:

Check that “Writing...” is displayed. Do never perform other operations while “Writing...” is displayed.

NOTE:

- It can be initialized to the NISSAN factory default condition with “Initialize Camera Image Calibration” of “Calibrating Camera Image”.
- The adjustment value is cancelled on this mode by performing “Initialize Camera Image Calibration”.

>> Calibration end



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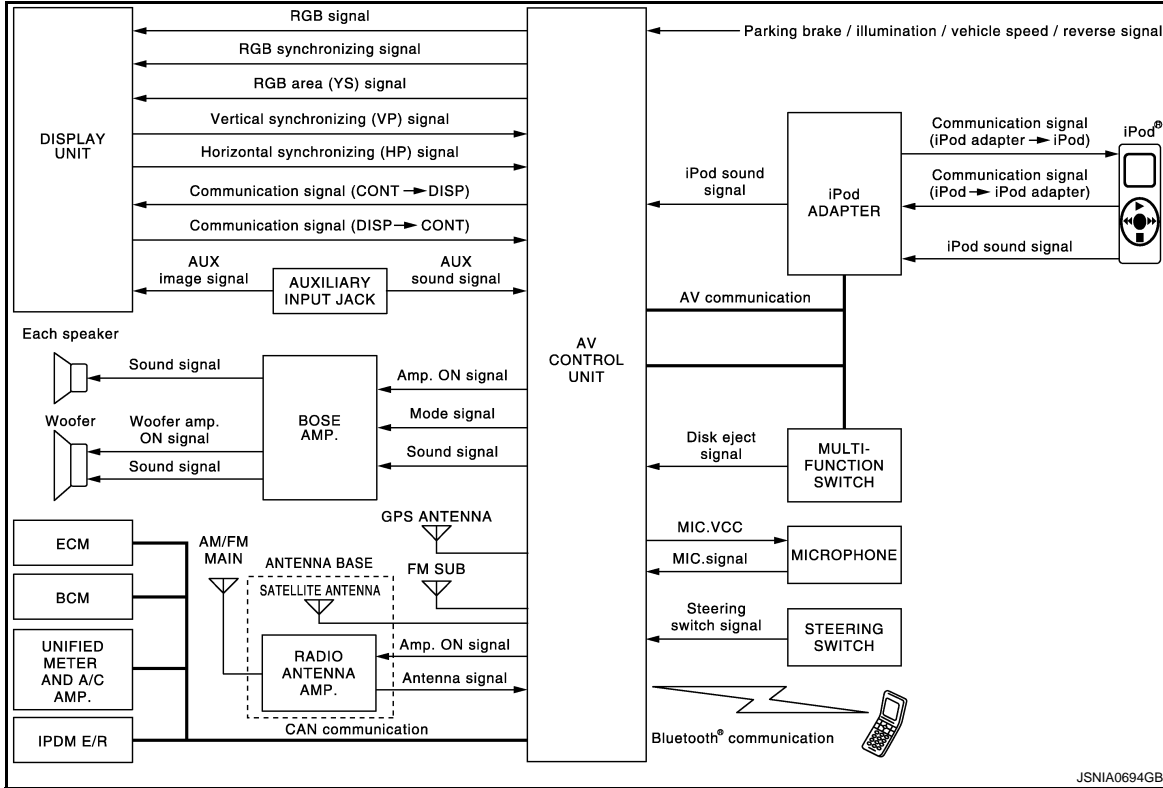
FUNCTION DIAGNOSIS

MULTI AV SYSTEM

System Diagram

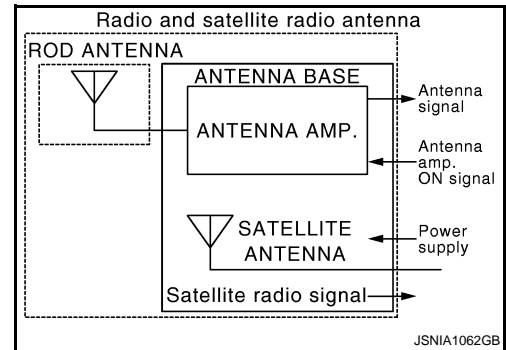
INFOID:000000003160599

WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR



NOTE:

- The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.
- A radio antenna base integrated with radio antenna and satellite radio antenna is adopted.

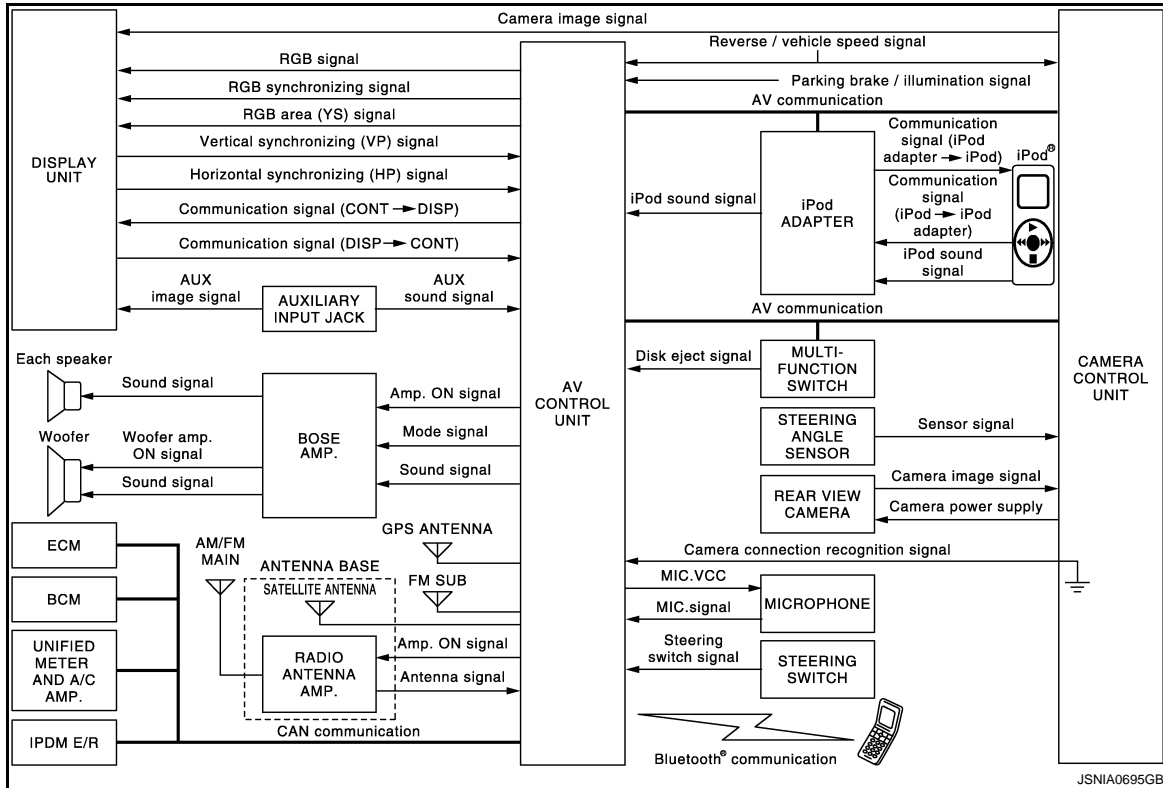


MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

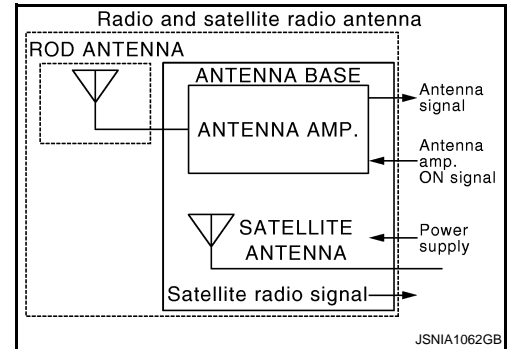
[BOSE AUDIO WITH NAVIGATION]

WITH REAR VIEW MONITOR



NOTE:

- The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.
- A radio antenna base integrated with radio antenna and satellite radio antenna is adopted.



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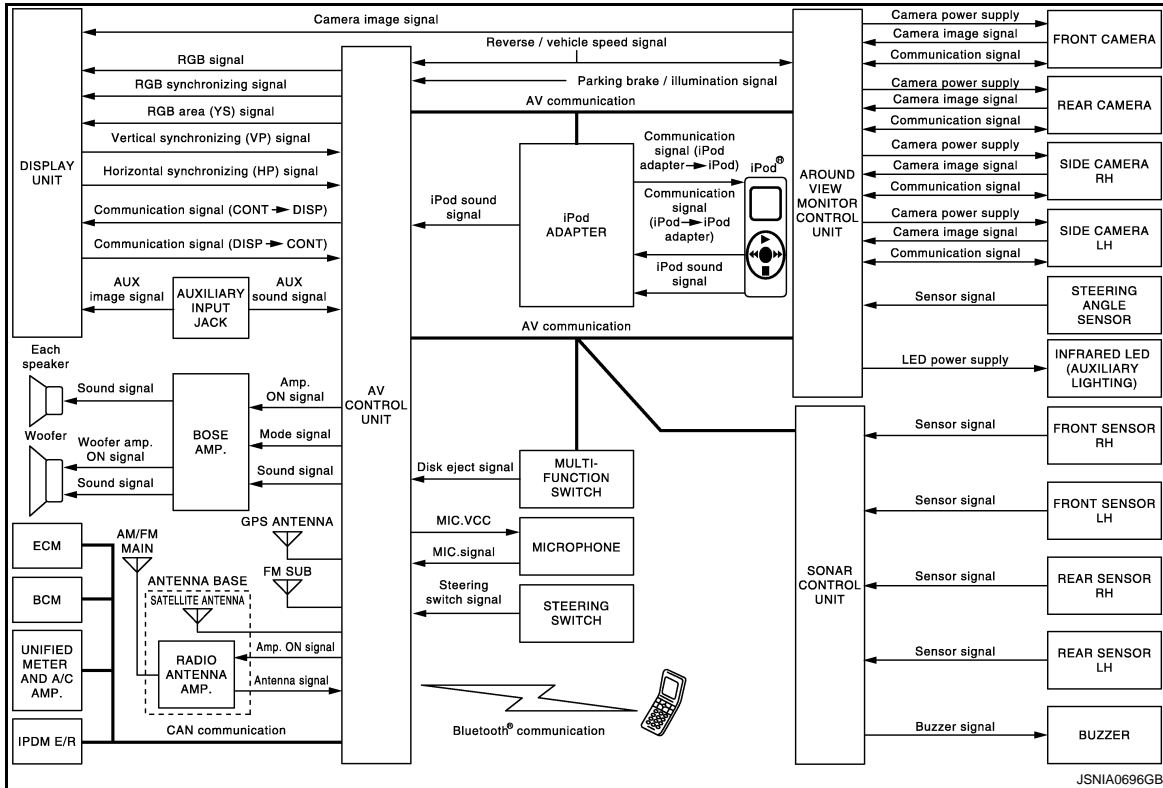
AV

MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

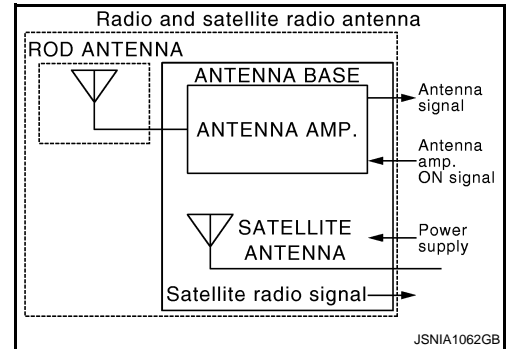
[BOSE AUDIO WITH NAVIGATION]

WITH AROUND VIEW MONITOR



NOTE:

- The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.
- A radio antenna base integrated with radio antenna and satellite radio antenna is adopted.



System Description

INFOID:0000000003515918

Multi AV system means that the following systems are integrated.

System name	System explanation
NAVIGATION SYSTEM	AV-458. "System Description"
AUDIO SYSTEM	AV-453. "System Description"
REAR VIEW MONITOR SYSTEM	AV-463. "System Description"
VEHICLE INFORMATION SYSTEM	<ul style="list-style-type: none"> • 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, unified meter and A/C amp. • AV control unit is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.
HANDS-FREE PHONE SYSTEM	Refer to the following "HANDS-FREE PHONE SYSTEM".
AUXILIARY INPUT SYSTEM	Refer to the following "AUXILIARY INPUT SYSTEM".

MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

System name	System explanation
VOICE RECOGNITION SYSTEM	Refer to the following "VOICE RECOGNITION SYSTEM".
TOUCH PANEL SYSTEM	Refer to the following "TOUCH PANEL SYSTEM".

- AV control unit function by transmitting/receiving data one by one with each unit (slave unit) that configures them completely as a master unit by connecting between units that configure MULTI AV system with two AV communication lines (H, L).
- Around view monitor control unit transmits/receives the data signal with sonar control unit and controls sonar control unit. Around view monitor control unit transmits the information received from sonar control unit to AV control unit. (With around view monitor)
- 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 signals from ECM, unified meter and A/C amp. It computes and displays fuel economy information value with the obtained information. The transmitting/receiving of data signal is performed by BCM. In addition, it transmits the required signal of vehicle setting and receives the response signal.
- AV control unit is connected with display and serial communication, and it transmits the required signal of display and display control and receives the response signal from display. Also, it is connected with satellite radio by serial communication, and it transmits the operating signal and receives the display signal.

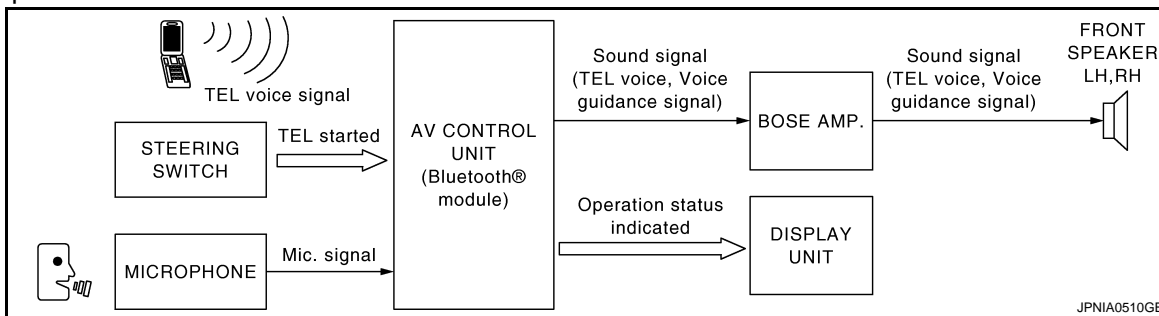
NOTE:

AV control unit can perform CONSULT-III self-operating function and on board self-diagnosis.

- CONSULT-III self diagnosis: Refer to [AV-498, "CONSULT-III Function \(MULTI AV\)"](#).
- On board self diagnosis: Refer to [AV-482, "Diagnosis Description"](#).

HANDS-FREE PHONE SYSTEM

- Hands-free communication can be operated by connecting using Bluetooth® with cellular phone.
- Operation is performed by steering switch, and operating condition is indicated on display.
- Guide sound that is heard during operation is input from AV control unit to BOSE amp. and is output from door speakers.



When a call is originated

Spoken voice sound output from the microphone (Mic. Signal) is input into AV control unit. AV control unit outputs to cellular phone with Bluetooth communication as a TEL voice signal. Voice sound is then heard by the other party.

When receiving a call

Voice sound is input to one's own cellular phone from the other party. TEL voice signal is output to door speakers, and the signal is input to BOSE amp. via AV control unit by establishing Bluetooth communication from cellular phone.

AUXILIARY INPUT SYSTEM

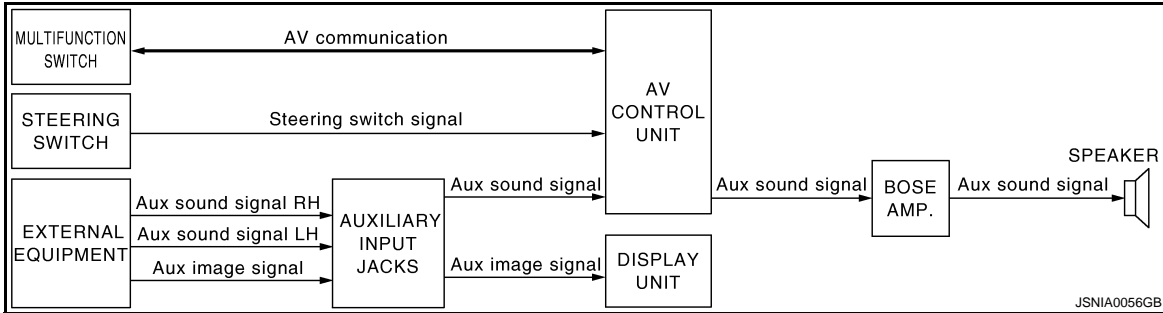
- Image and sound can be output from an external device by connecting a device with auxiliary input jacks.

MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

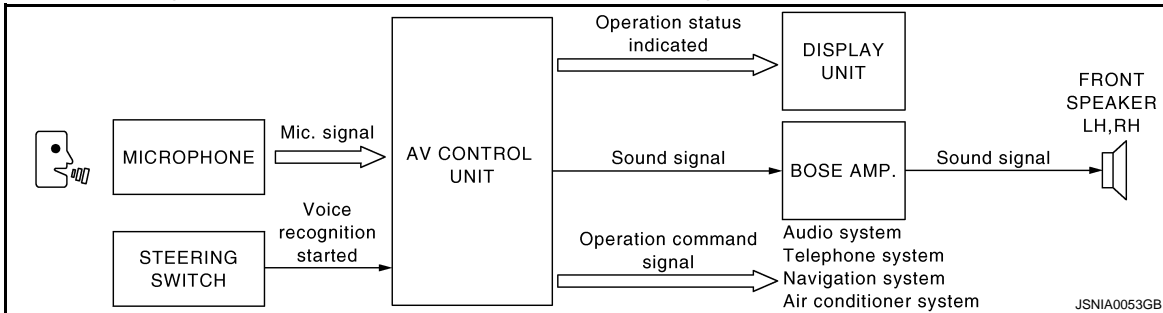
[BOSE AUDIO WITH NAVIGATION]

- Operation can be performed with multifunction switch and steering switch. Multifunction switch transmits operation signal to AV control unit by AV communication.



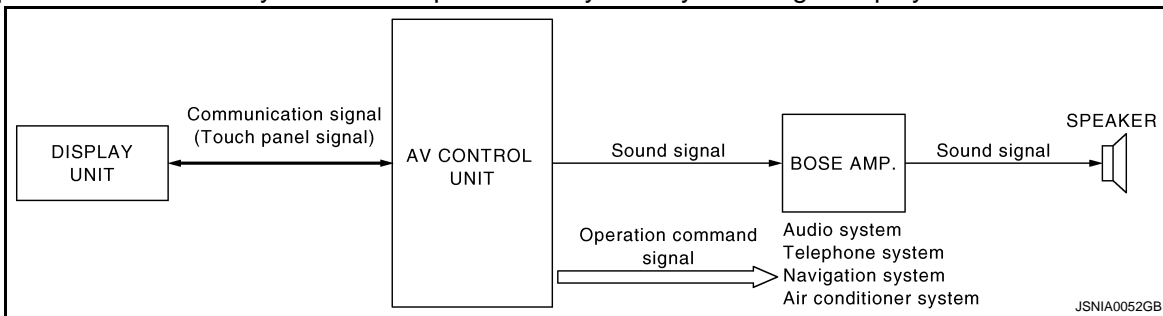
VOICE RECOGNITION SYSTEM

- Each operation of multi AV system can be performed by inputting sound to microphone.
- Start of sound recognition system can be performed by steering switch.



TOUCH PANEL SYSTEM

Each operation of multi AV system can be performed by directly touching a display.



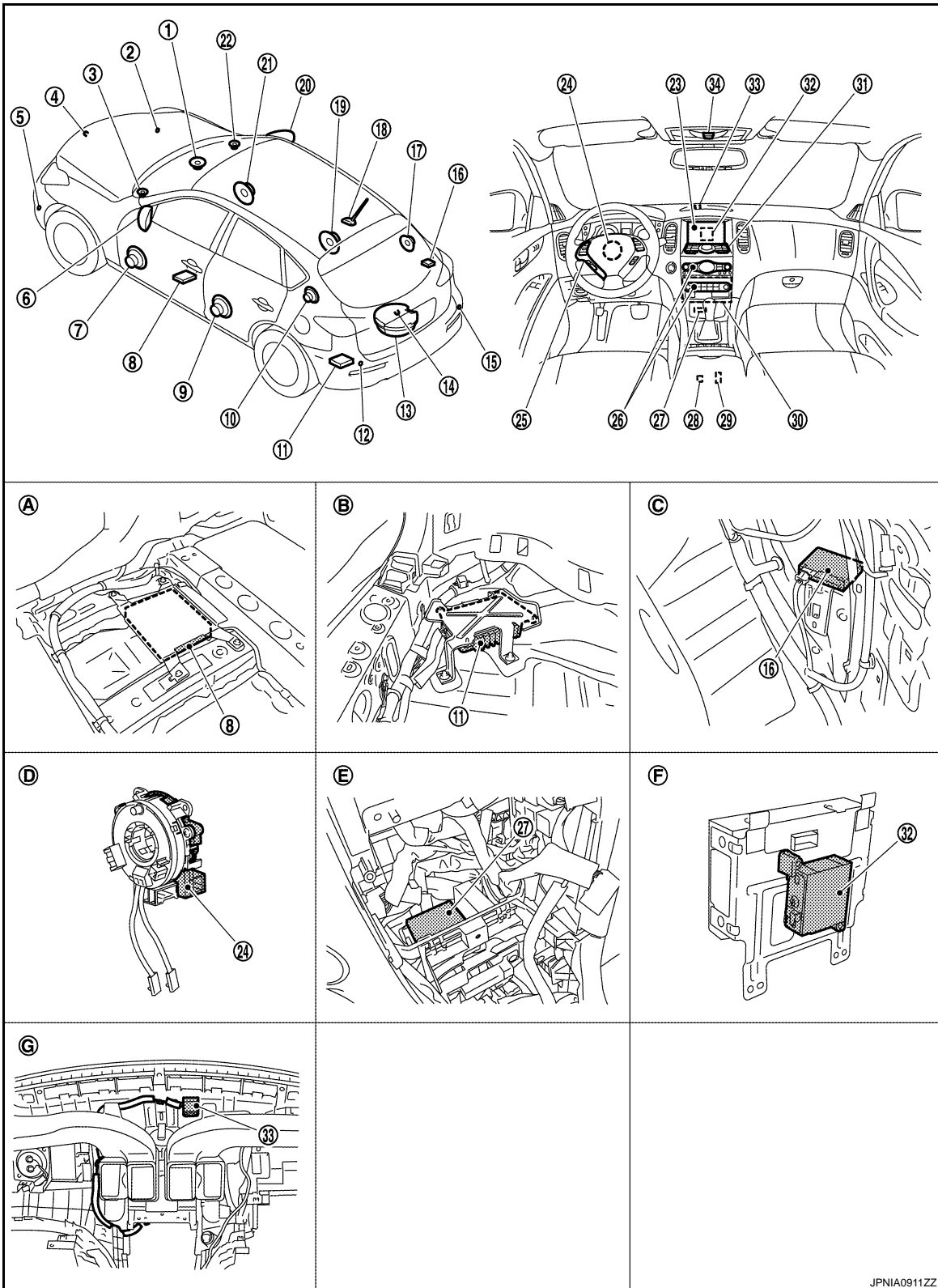
MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Component Parts Location

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| 1. Center speaker | 2. Corner sensor front RH | 3. Front squawker LH |
| 4. Front camera | 5. Corner sensor front LH | 6. Side camera LH |

MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

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| 7. Front door speaker LH | 8. • Around view monitor control unit (with around view monitor)
• Camera control unit (with rear view monitor) | 9. Rear door speaker LH |
| 10. Rear squawker LH | 11. BOSE amp. | 12. Corner sensor rear LH |
| 13. Woofer | 14. • Rear camera (with around view monitor)
• Rear view camera (with rear view monitor) | 15. Corner sensor rear RH |
| 16. Buzzer | 17. Rear squawker RH | 18. Antenna base (antenna amp and satellite antenna) |
| 19. Rear door speaker RH | 20. Side camera RH | 21. Front door speaker RH |
| 22. Front squawker RH | 23. Display unit | 24. Steering angle sensor |
| 25. Steering switch | 26. Preset switch | 27. Sonar control unit (with around view monitor) |
| 28. iPod connector | 29. Auxiliary input jacks | 30. AV control unit |
| 31. Multifunction switch | 32. iPod adapter | 33. GPS antenna |
| 34. Microphone | | |
| A. Under front seat (LH side) | B. Luggage floor (LH side) | C. Luggage side RH |
| D. Spiral cable part | E. Cluster lid C removed condition | F. Rear view of the display unit |
| G. Instrument panel rear side | | |

Component Description

INFOID:000000003515919

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> Integrates hard disk drive (HDD) allowing map data and music data to be stored. It is the master unit of the MULTI AV system, and is connected to each control unit by communication. It operates each system according to communication signals from AV control unit. AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions. It is connected to ECM, unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function. It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function. It inputs the illumination signals that are required for the display dimming control. It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake). Update of map data is performed with the CONSULT-III and the applicable cable. AV control unit recognizes the presence of camera system with camera connection recognition signal.
DISPLAY UNIT	<ul style="list-style-type: none"> Display image is controlled by the serial communication from AV control unit. RGB image signal is input from AV control unit (RGB, RGB area and RGB synchronizing). Auxiliary image signal is input from the auxiliary input jack. Camera image signal is input from camera control unit. Synchronize signal (HP, VP) is output to AV control unit. Touch panel function can be operated for each system by touching a display directly.
BOSE AMP.	<ul style="list-style-type: none"> Inputs power (amp. ON) and sound signal from AV control unit, and outputs sound signal to woofer and each speaker. Input "Driver's Audio Stage" mode change signal from AV control unit. Woofer amp. ON signal is transmitted to woofer.
FRONT DOOR SPEAKER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs sound (mid and low range).
REAR DOOR SPEAKER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs sound (mid and low range).

MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Part name	Description	
FRONT SQUAWKER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs sound (high and mid range). 	A
REAR SQUAWKER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs sound (high and mid range). 	B
CENTER SPEAKER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs sound (high and mid range). 	C
WOOFER	<ul style="list-style-type: none"> Inputs power (amp. ON) and sound signal from BOSE amp. Outputs low-frequency sound. 	
MULTIFUNCTION SWITCH	<ul style="list-style-type: none"> Operation panel is equipped with the centralized switch where audio, auxiliary input and navigation operations are integrated. Connected with preset switch via cable, and operation signal is transmitted to AV control unit via AV communication. 	D
PRESET SWITCH	<ul style="list-style-type: none"> Operation panel is equipped with the centralized switch where audio and air conditioner operations are integrated. Connected with multifunction switch via cable, and operation signal is transmitted to AV control unit via AV communication. The disk ejection operating signal is performed by hardware. 	E
CAMERA CONTROL UNIT	<ul style="list-style-type: none"> Camera image signal is input from rear view camera. Camera image signal output to display unit. Power (camera ON signal) is transmitted to rear view camera. Superimposes the guiding line, predicted course line and sonar indicator to camera image that outputs to display unit. Input the sensor signal from the steering angle sensor, and then control the predicted course line. Camera control unit is connected via AV communication. 	F
REAR VIEW CAMERA	<ul style="list-style-type: none"> The image from rear camera is transmitted to camera control unit. It receives power (camera ON signal) from camera control unit and operates. 	G
AROUND VIEW MONITOR CONTROL UNIT	<ul style="list-style-type: none"> It supplies power to front camera, rear camera, and side camera. And then it superimposes the images from each camera and outputs them to display unit. Superimpose the guiding line, predicted course line and sonar indicator to the camera image that outputs to display unit. It performs the reception/transmission of communication signal with each camera. Inputs the sensor signal from steering angle sensor, and then controls the predicted course line. It transmits the sonar operation signal from sonar control unit and receives the sonar information from sonar control unit via AV communication. It transmits the information received/transmitted with sonar control unit via AV communication to AV control unit. 	H
FRONT CAMERA	<ul style="list-style-type: none"> It inputs the power supply from around view monitor control unit and outputs the image of the vehicle front to around view monitor control unit. It performs the reception/transmission of the communication signal with around view monitor control unit. 	I
REAR CAMERA	<ul style="list-style-type: none"> It inputs the power supply from around view monitor control unit and outputs the image of the vehicle rear to around view monitor control unit. It performs the reception/transmission of the communication signal with around view monitor control unit. 	J
SIDE CAMERA LH	<ul style="list-style-type: none"> It inputs the power supply from around view monitor control unit and outputs the image of the vehicle LH to around view monitor control unit. It performs the reception/transmission of the communication signal with around view monitor control unit. 	K
SIDE CAMERA RH	<ul style="list-style-type: none"> It inputs the power supply from around view monitor control unit and outputs the image of the vehicle RH to around view monitor control unit. It performs the reception/transmission of the communication signal with around view monitor control unit. 	L
INFRARED LED (AUXILIARY LIGHTING)	<ul style="list-style-type: none"> It illuminates around the front RH wheel by the power supply from around view monitor control unit to improve nighttime visibility of Front-Side view. The infrared LED is an invisible light ray. 	M

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MULTI AV SYSTEM

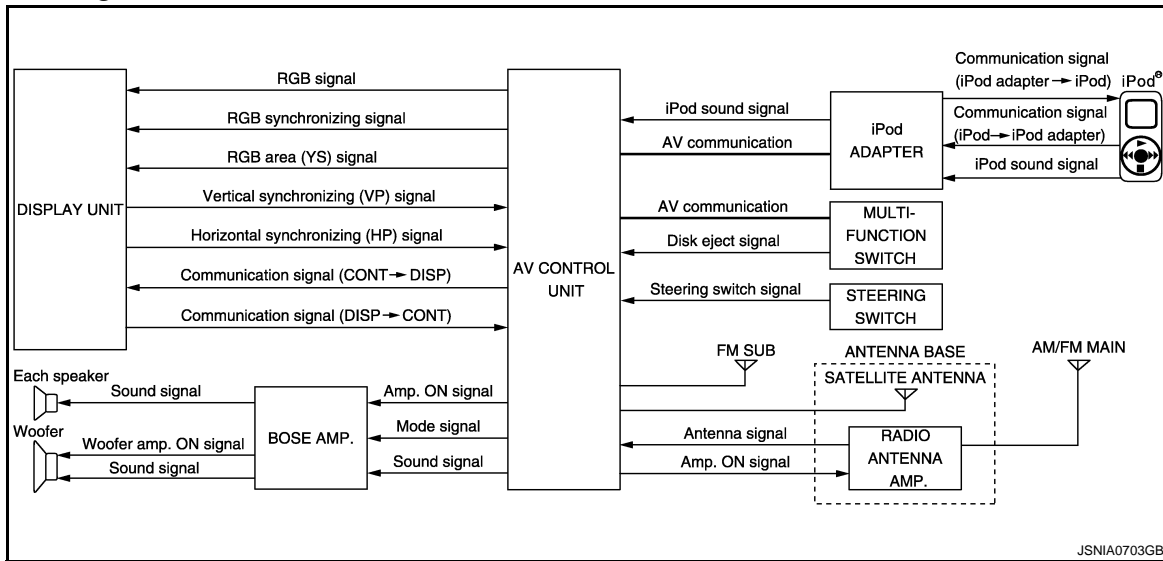
< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Part name	Description
STEERING SWITCH	<ul style="list-style-type: none"> Operations for audio, hands-free phone, audio response and navigation, etc. are possible. Steering switch signal (operation signal) is output to AV control unit.
STEERING ANGLE SENSOR	Steering signal necessary for predicted course line control is transmitted to camera control unit or around view monitor control unit.
MICROPHONE	<ul style="list-style-type: none"> Used for hands-free phone operation and voice recognition. Mic signal is transmitted to AV control unit. Power (Mic VCC) is supplied from AV control unit.
AUXILIARY INPUT JACKS	Image signal of auxiliary input is output to display, and sound signal is output to AV control unit.
GPS ANTENNA	GPS signal is received and transmitted to AV control unit.
ANTENNA BASE	<p>A radio antenna base integrated with radio antenna amp. and satellite radio antenna is adopted.</p> <p>ANTENNA AMP.</p> <ul style="list-style-type: none"> Radio signal received by rod antenna is amplified and transmitted to AV control unit. Power (antenna amp. ON signal) is supplied from AV control unit. <p>SATELLITE RADIO ANTENNA</p> <ul style="list-style-type: none"> Receives satellite radio waves and outputs it to satellite radio tuner.
iPod ADAPTER	<ul style="list-style-type: none"> Inputs iPod sound signal from iPod[®], and outputs iPod sound signal to AV control unit. Receiving/transmitting of iPod[®] operation signals are performed as follows: <ul style="list-style-type: none"> - between AV control unit and iPod adapter: AV communication. - between iPod[®] and iPod adapter: serial communication.
SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)	<ul style="list-style-type: none"> It is connected with around view monitor control unit via AV communication and receives the sonar operation signal from around view monitor control unit. It transmits the sonar detection status to around view monitor control unit via AV communication. It judges the warning level according to the signal from corner sensor and outputs the buzzer drive signal. Trouble diagnosis is supported with CONSULT-III (K-LINE).
CORNER SENSOR	The obstacle distance is detected. The signal is transmitted to sonar control unit.
BUZZER	The warning buzzer outputs with the signal from sonar control unit.

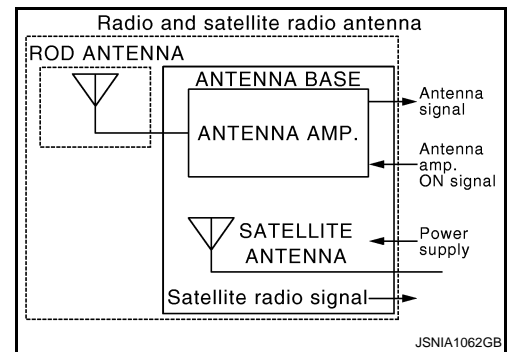
AUDIO SYSTEM

System Diagram



NOTE:

A radio antenna base integrated with radio antenna and satellite radio antenna is adopted.



System Description

The audio system is equipped with the following functions. Each function is operated by multifunction switch, preset switch, touch panel, steering switch or audio recognition. Operation status of AUDIO is indicated at display.

Function
AM/FM radio
Satellite radio
CD
Music Box (Hard Disk Drive)
CF (Compact Flash)
iPod connection
Driver's Audio Stage

FUNCTION DESCRIPTION

Operating signal

Audio system operation can be performed with multifunction switch, preset switch, steering switch, touch panel function or voice recognition function.

- Operating signal is transmitted to AV control unit with AV communication when it is operated by multifunction switch or preset switch. The disk ejection operating signal is performed by hardware.
- Operating signal is transmitted to AV control unit with steering switch signal when it is operated by steering switch.

AUDIO SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

- Refer to [AV-446. "System Description"](#) for explanation of voice recognition function and touch panel function.

Screen display

- The display is switched by communication signal between display and AV control unit.
- The image signal that displays operating status is performed by the RGB signal, RGB area signal and RGB image synchronizing signal.

AM/FM Radio Mode

- AM/FM radio tuner is built into AV control unit.
- Audio signal is received by rod antenna, next it is amplified by antenna amp., and finally it is input into AV control unit. The FM sub antenna is installed on the back door window glass and AV control unit receives audio signal.
- Audio signal is input to BOSE amp. and BOSE amp. outputs to woofer and each speakers for AV control unit.

Satellite Radio Mode

- Satellite radio tuner is built into AV control unit.
- Audio signal (satellite radio) is received by satellite antenna, and it is input to AV control unit. AV control unit outputs audio signal to BOSE amp. The signal is also outputted from BOSE amp. to both woofer and each speaker.

CD Mode

- CD function is built into AV control unit.
- AV control unit outputs audio signals to BOSE amp. and BOSE amp. outputs to woofer and each speaker when CD is inserted to AV control unit.

Music Box Mode

- Music CD data is stored on HDD that is built into AV control unit, and it can be played.
- AV control unit outputs music (audio signal) that is stored on HDD to BOSE amp., and BOSE amp. outputs to woofer and each speaker.

CF Mode

- AV control unit has built in CF replay function.
- Music (audio signal) that is stored in CF outputs to BOSE amp. and BOSE amp. outputs to woofer and each speaker when CF is inserted into AV control unit.

iPod Connection

- Connect iPod® and iPod adapter with wire harness and iPod adapter inputs iPod sound signal from iPod®. When iPod mode is selected, iPod adapter outputs iPod sound signal to AV control unit. AV control unit outputs sound signal to BOSE amp., and BOSE amp. output sound signal to woofer and each speaker.
- Receiving/transmitting of iPod® operation signals are performed as follows:
 - between AV control unit and iPod adapter: AV communication.
 - between iPod® and iPod adapter: serial communication.
- The iPod® connection status can be recognized whether iPod adapter receives iPod connection recognition signal.
- The iPod adapter can charge iPod®.

Driver's Audio Stage Mode

- Driver's Audio Stage controls the speaker's output characteristics by BOSE amp. so that the driver seat is the center of sound.
- ON/OFF signals of Driver's Audio Stage are transmitted from AV control unit to BOSE amp. using Mode signal.

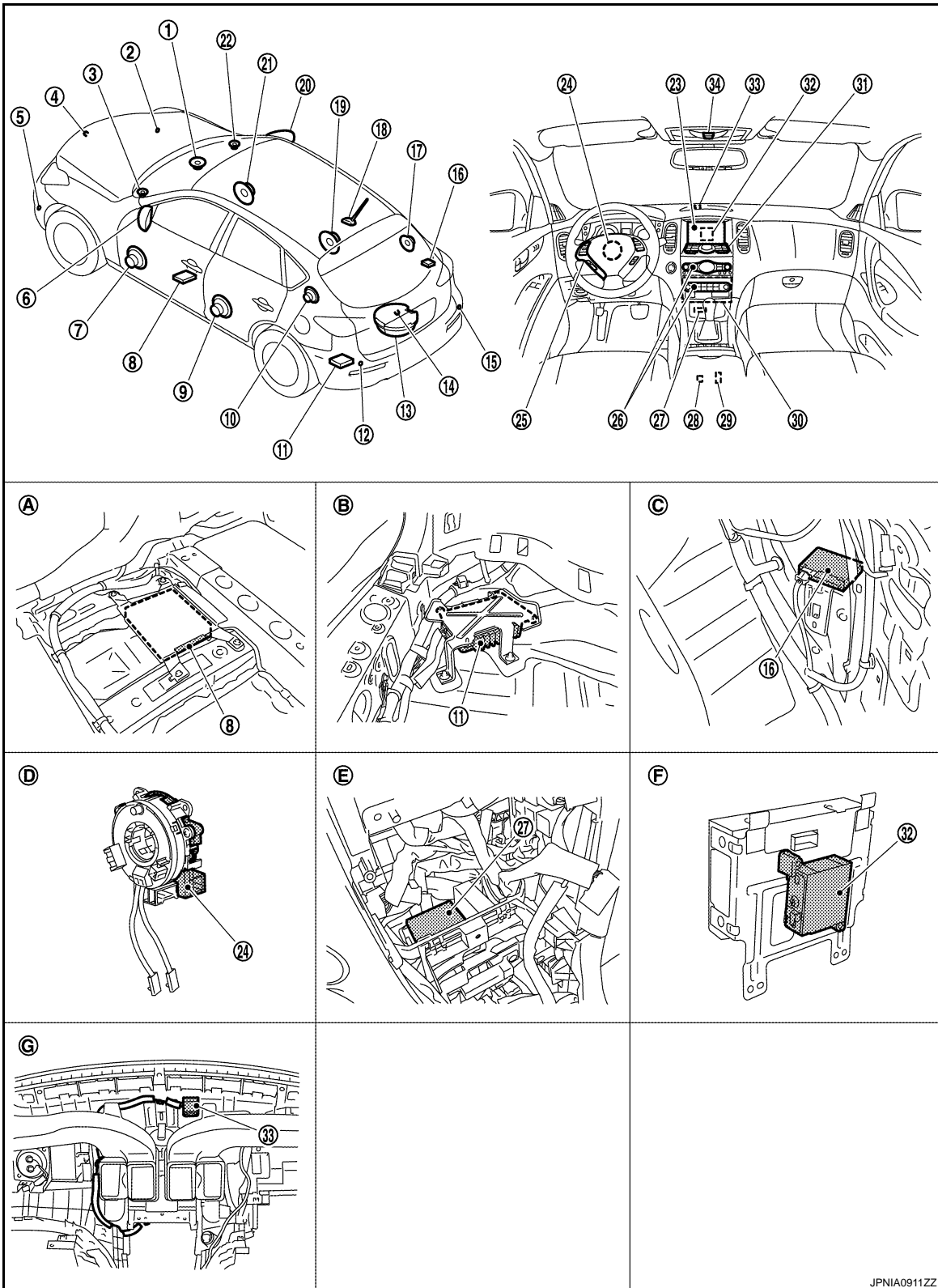
AUDIO SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Component Parts Location

INFOID:000000003579816



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|-------------------|---------------------------|----------------------|
| 1. Center speaker | 2. Corner sensor front RH | 3. Front squawker LH |
| 4. Front camera | 5. Corner sensor front LH | 6. Side camera LH |

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AV

AUDIO SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

- | | | |
|---|---|---|
| <p>7. Front door speaker LH</p> <p>10. Rear squawker LH</p> <p>13. Woofer</p> <p>16. Buzzer</p> <p>19. Rear door speaker RH</p> <p>22. Front squawker RH</p> <p>25. Steering switch</p> <p>28. iPod connector</p> <p>31. Multifunction switch</p> <p>34. Microphone</p> <p>A. Under front seat (LH side)</p> <p>D. Spiral cable part</p> <p>G. Instrument panel rear side</p> | <p>8. • Around view monitor control unit (with around view monitor)</p> <p>• Camera control unit (with rear view monitor)</p> <p>11. BOSE amp.</p> <p>14. • Rear camera (with around view monitor)</p> <p>• Rear view camera (with rear view monitor)</p> <p>17. Rear squawker RH</p> <p>20. Side camera RH</p> <p>23. Display unit</p> <p>26. Preset switch</p> <p>29. Auxiliary input jacks</p> <p>32. iPod adapter</p> <p>B. Luggage floor (LH side)</p> <p>E. Cluster lid C removed condition</p> | <p>9. Rear door speaker LH</p> <p>12. Corner sensor rear LH</p> <p>15. Corner sensor rear RH</p> <p>18. Antenna base (antenna amp and satellite antenna)</p> <p>21. Front door speaker RH</p> <p>24. Steering angle sensor</p> <p>27. Sonar control unit (with around view monitor)</p> <p>30. AV control unit</p> <p>33. GPS antenna</p> <p>C. Luggage side RH</p> <p>F. Rear view of the display unit</p> |
|---|---|---|

Component Description

INFOID:000000003515970

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> • Receiving function of AM/FM/satellite radio, replaying function of CD, replaying/saving functions of music box (HDD), replaying function of CF and voice recognition function are integrated. • Audio signal is output to BOSE amp. from each function.
DISPLAY UNIT	<ul style="list-style-type: none"> • Display image is controlled by the serial communication from AV control unit. • RGB image signal (audio operation condition) is input from AV control unit. • Touch panel function can be operated for each system by touching the display directly.
BOSE AMP.	<ul style="list-style-type: none"> • Inputs power (amp. ON) and sound signal from AV control unit, and outputs sound signal to woofer and each speaker. • Input "Driver's Audio Stage" mode change signal from AV control unit. • Woofer amp. ON signal is transmitted to woofer.
FRONT DOOR SPEAKER	<ul style="list-style-type: none"> • Outputs sound signal from BOSE amp. • Outputs sound (mid and low range).
REAR DOOR SPEAKER	<ul style="list-style-type: none"> • Outputs sound signal from BOSE amp. • Outputs sound (mid and low range).
FRONT SQUAWKER	<ul style="list-style-type: none"> • Outputs sound signal from BOSE amp. • Outputs sound (high and mid range).
REAR SQUAWKER	<ul style="list-style-type: none"> • Outputs sound signal from BOSE amp. • Outputs sound (high and mid range).
CENTER SPEAKER	<ul style="list-style-type: none"> • Outputs sound signal from BOSE amp. • Outputs sound (high and mid range).
WOOFER	<ul style="list-style-type: none"> • Inputs power (amp. ON) and sound signals from BOSE amp. • Outputs low-frequency sound.
MULTIFUNCTION SWITCH	<ul style="list-style-type: none"> • Each audio operation can be operated. • Connected with preset switch via cable, and operation signal is transmitted to AV control unit via AV communication.
PRESET SWITCH	<ul style="list-style-type: none"> • Each audio operation can be operated. • Connected with multifunction switch via cable, and operation signal is transmitted to AV control unit via AV communication. • The disk ejection operating signal is performed by hardwire.

AUDIO SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

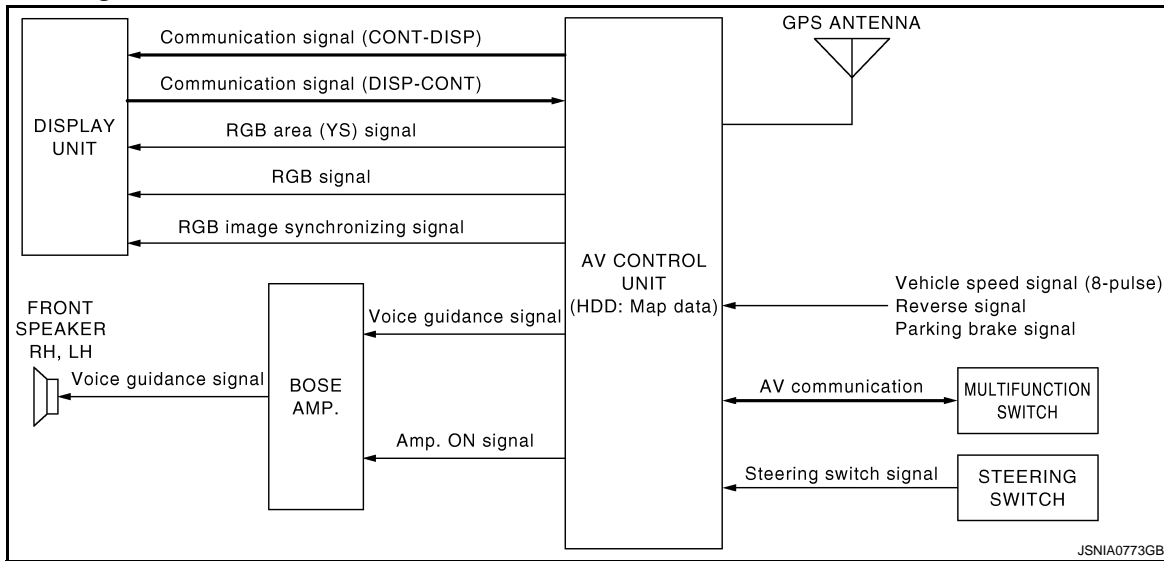
Part name	Description
STEERING SWITCH	<ul style="list-style-type: none">• Each audio operation can be operated.• Steering switch signal (operation signal) is output to AV control unit.
MICROPHONE	<ul style="list-style-type: none">• It is used for voice activated operation• Pronounced voice is converted to voice signal and transmitted to AV control unit.
ANTENNA AMP.	<ul style="list-style-type: none">• Radio signal received by rod antenna is amplified and transmitted to AV control unit.• Power (antenna amp ON. signal) is supplied from AV control unit.
SATELLITE RADIO ANTENNA	Audio signal (satellite radio) is received and output to AV control unit.
iPod ADAPTER	<ul style="list-style-type: none">• Inputs iPod sound signal from iPod®, and outputs iPod sound signal to AV control unit.• Receiving/transmitting of iPod® operation signals are performed as follows:<ul style="list-style-type: none">- between AV control unit and iPod adapter: AV communication.- between iPod® and iPod adapter: serial communication.

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AV

NAVIGATION SYSTEM

System Diagram



System Description

INFOID:000000003515971

DESCRIPTION

- AV control unit controls navigation function while GPS tuner has built-in map data, GYRO (angle speed sensor), on the HDD (Hard Disk Drive).
- AV control unit inputs operation signals with communication signals, through display (touch panel), multifunction switch and steering switch.
- Guide sound is output to front speaker through BOSE amp. from AV control unit when operating navigation system.
- The vehicle position is calculated through the GYRO (angle speed sensor), vehicle sensor, signal from GPS satellite and map data stored on HDD (Hard Disk Drive), and transmits the map image signal (RGB image, RGB area, RGB image synchronizing) to display.

POSITION DETECTION PRINCIPLE

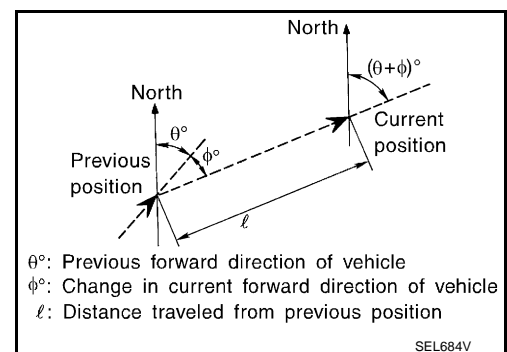
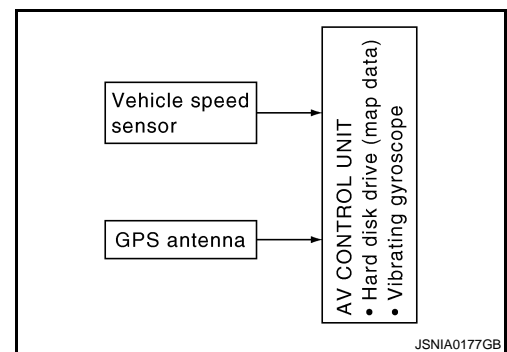
The navigation system periodically calculates the current vehicle position according to the following three types of signals.

- Travel distance of the vehicle as determined by the vehicle speed sensor
- Vehicle turning angle determined by the gyroscope (angular speed sensor)
- The travel direction of the vehicle determined by the GPS antenna (GPS information)

The current position of the vehicle is then identified by comparing the calculated vehicle position with map data, which is stored in the HDD (Hard Disk Drive) (map-matching), and indicated on the screen with the current location mark. More accurate data is used by comparing position detection results from GPS to 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) detect a change in travel direction. Both have advantages and disadvantages as per the following descriptions.

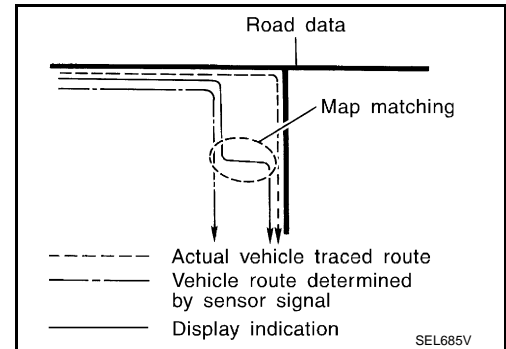


Type	Advantage	Disadvantage
Gyroscope (angular velocity sensor)	The turning angle is precisely detected.	Errors are accumulated when driving a long distance without stopping.
GPS antenna (GPS information)	The travel direction (North/South/East/West) is detected.	The travel direction is not precisely detected when driving slowly.

Input signals are prioritized in each situation. However, this order of priority may change in accordance with more detailed travel conditions so that the travel direction is detected more accurately.

MAP-MATCHING

Map-matching repositions the vehicle on the road map when a new location is judged to be more accurate. This is done by comparing the current vehicle position (calculated by the normal position detection method) from the map data stored in the HDD (Hard Disk Drive).

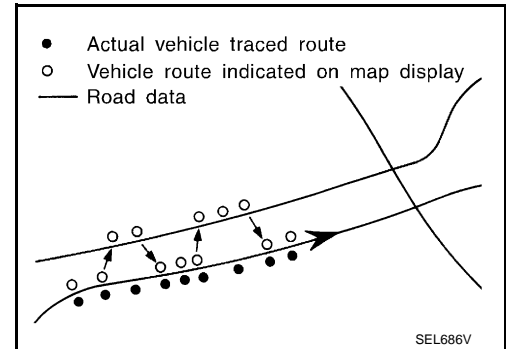


There is a possibility that the vehicle position may not be corrected in the following case, or when vehicle is driven over a certain distance or time in which GPS information is hard to receive. Manually correct the current location mark on the screen.

- In map-matching, several alternative routes are prepared and prioritized in addition to the road detected as currently being driven 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.

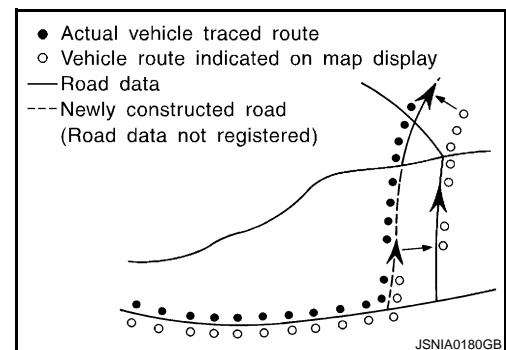
If two roads are running parallel, they are of the same priority. Therefore, the current location mark may appear on either of them alternately, depending on steering wheel movement and road configuration, etc.



- Map-matching does not function correctly when road that the vehicle is driving on new, etc, or not recorded in the map data. Also, map-matching does not function correctly when road patterns stored in the map data and the actual road pattern are different due to repair, etc.

Therefore, the map-matching function judges an other road as currently being driven on road if the road is not on the map, and displays the current location mark on it. Later, the current location mark may be repositioned if the correct road is detected.

- Effective range for comparing the vehicle position and travel direction calculated by the distance and direction with the road data is limited. Therefore, correction by map-matching is not possible when there is an excessive gap between current vehicle position and the position on the map.



GPS (GLOBAL POSITIONING SYSTEM)

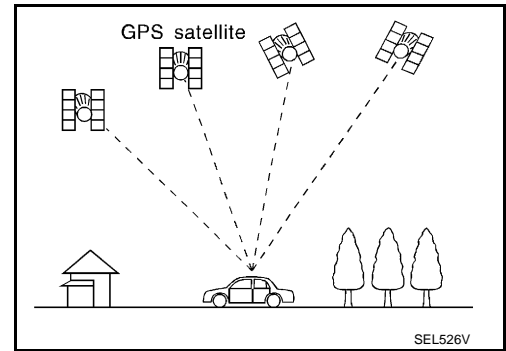
NAVIGATION SYSTEM

< FUNCTION DIAGNOSIS >

[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 (13,048 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 the vehicle is stopped.



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 (32.8 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.

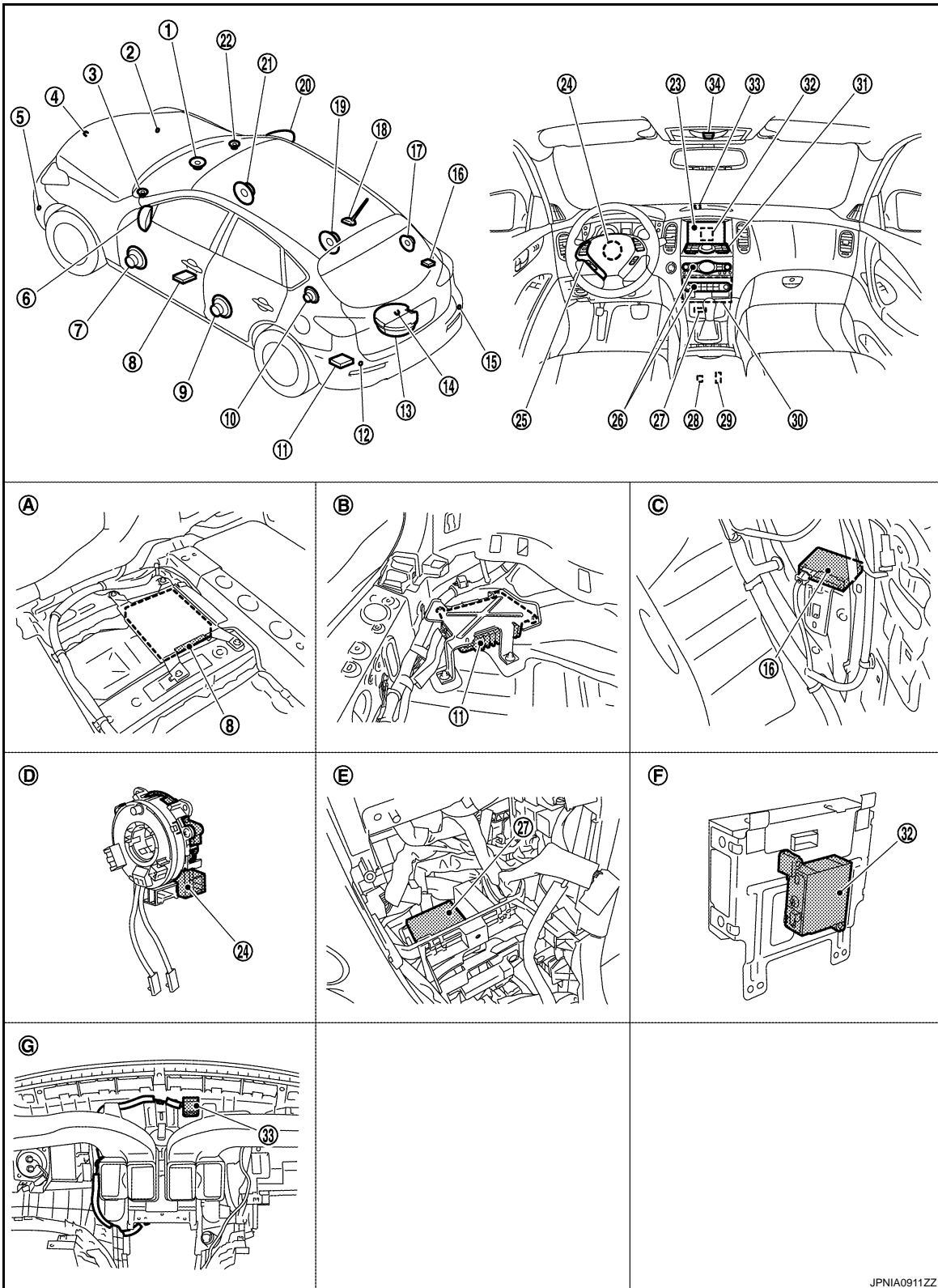
NAVIGATION SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Component Parts Location

INFOID:000000003579817



- 1. Center speaker
- 4. Front camera

- 2. Corner sensor front RH
- 5. Corner sensor front LH

- 3. Front squawker LH
- 6. Side camera LH

AV

NAVIGATION SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

- | | | |
|-------------------------------|--|--|
| 7. Front door speaker LH | 8. • Around view monitor control unit (with around view monitor)
• Camera control unit (with rear view monitor) | 9. Rear door speaker LH |
| 10. Rear squawker LH | 11. BOSE amp. | 12. Corner sensor rear LH |
| 13. Woofer | 14. • Rear camera (with around view monitor)
• Rear view camera (with rear view monitor) | 15. Corner sensor rear RH |
| 16. Buzzer | 17. Rear squawker RH | 18. Antenna base (antenna amp and satellite antenna) |
| 19. Rear door speaker RH | 20. Side camera RH | 21. Front door speaker RH |
| 22. Front squawker RH | 23. Display unit | 24. Steering angle sensor |
| 25. Steering switch | 26. Preset switch | 27. Sonar control unit (with around view monitor) |
| 28. iPod connector | 29. Auxiliary input jacks | 30. AV control unit |
| 31. Multifunction switch | 32. iPod adapter | 33. GPS antenna |
| 34. Microphone | | |
| A. Under front seat (LH side) | B. Luggage floor (LH side) | C. Luggage side RH |
| D. Spiral cable part | E. Cluster lid C removed condition | F. Rear view of the display unit |
| G. Instrument panel rear side | | |

Component Description

INFOID:000000003515972

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> It is the master unit that controls each operation of the Navigation system. The HDD (Hard Disk Drive) is built in, and the map data is stored in HDD. The RGB signal (map information) is output to display. The voice guidance signal is output to BOSE amp.
DISPLAY UNIT	<ul style="list-style-type: none"> Map image signal is input from AV control unit, and it is indicated on display. Each operation of navigation can be performed by the touch panel function.
BOSE AMP.	Voice guidance signal is input from AV control unit, and it is output to front LH/RH speakers.
FRONT DOOR SPEAKER	Voice guidance signal from BOSE amp. is output.
FRONT SQUAWKER	
MULTIFUNCTION SWITCH	<ul style="list-style-type: none"> Each operation of navigation can be performed. Connected with preset switch via cables and operation signal is transmitted to AV control unit via AV communication.
STEERING SWITCH	<ul style="list-style-type: none"> Each operation of navigation, etc. can be performed. Switch operating signal is output to AV control unit.
GPS ANTENNA	GPS signal is received and is output to AV control unit.

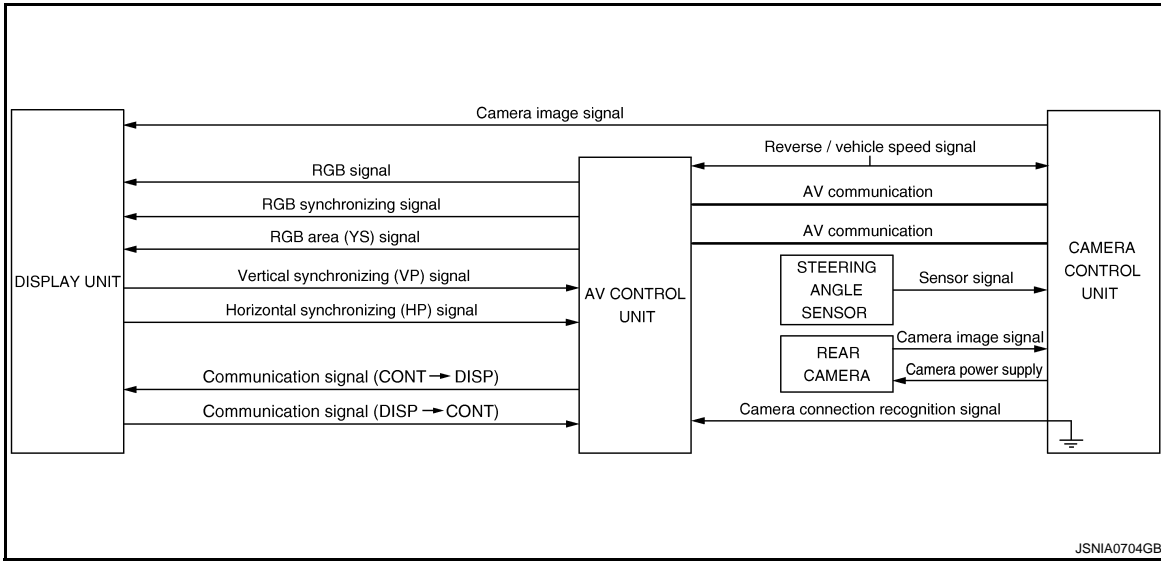
REAR VIEW MONITOR SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

REAR VIEW MONITOR SYSTEM

System Diagram



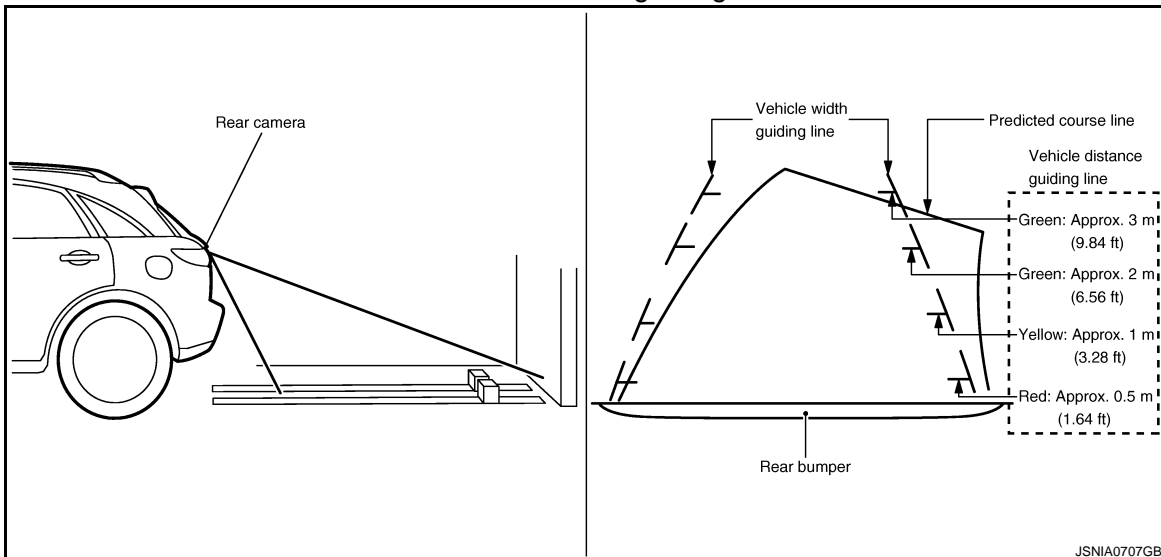
System Description

INFOID:000000003515973

CAMERA IMAGE OPERATION PRINCIPLE

- Power is supplied to rear view camera from camera control unit and the rear view camera outputs the camera image to the camera control unit when selector lever is set to reverse position and the reverse signal on camera control unit is input.
- Camera control unit superimposes the guiding line and predicted course line to the image from rear view camera and outputs to display unit. In this case, the reverse signal is also input to AV control unit. Therefore, AV control unit recognizes the selector lever as in the reverse position. And then AV control unit switches the image displayed by the communication signal between AV control unit and display unit with the camera image.
- Camera control unit controls the direction and distance of the predicted course line according to the sensor signal from steering angle sensor.
- AV control unit determines whether rear view camera is equipped or not, based on the presence of camera connection recognition signal. It switches to rear view monitor image at the time of reverse signal input when it is equipped.
- Warning message under the rear view monitor display is described by AV control unit.

Rear view monitor guiding line



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REAR VIEW MONITOR SYSTEM

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[BOSE AUDIO WITH NAVIGATION]

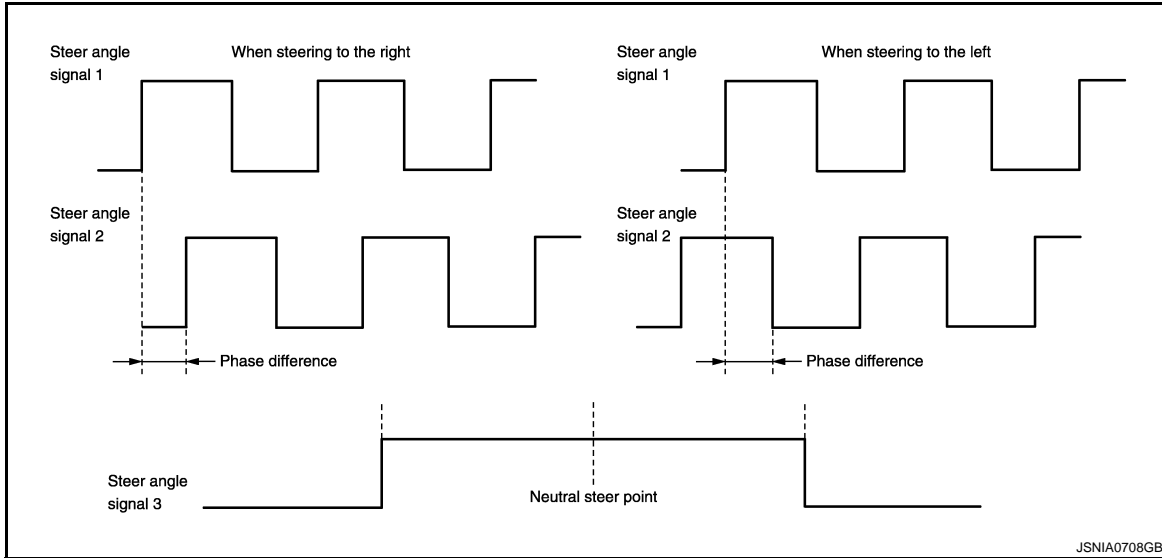
PREDICTED COURSE LINE OPERATION PRINCIPLE

Detection of steering rotation direction

Camera control unit detects the rotation direction of steering according to the phase difference of two pairs of pulse signals (sensor signal 1 and sensor signal 2) input from steering angle sensor.

Detection of steering neutral position

The sensor signal 3 input from steering angle sensor is generated at 1 pulse per 1 steering wheel rotation. Camera control unit detects the steering neutral position from this pulse.



Correction of steering neutral position

Camera control unit corrects the steering neutral position during driving according to the vehicle speed signal and steering angle sensor signal.

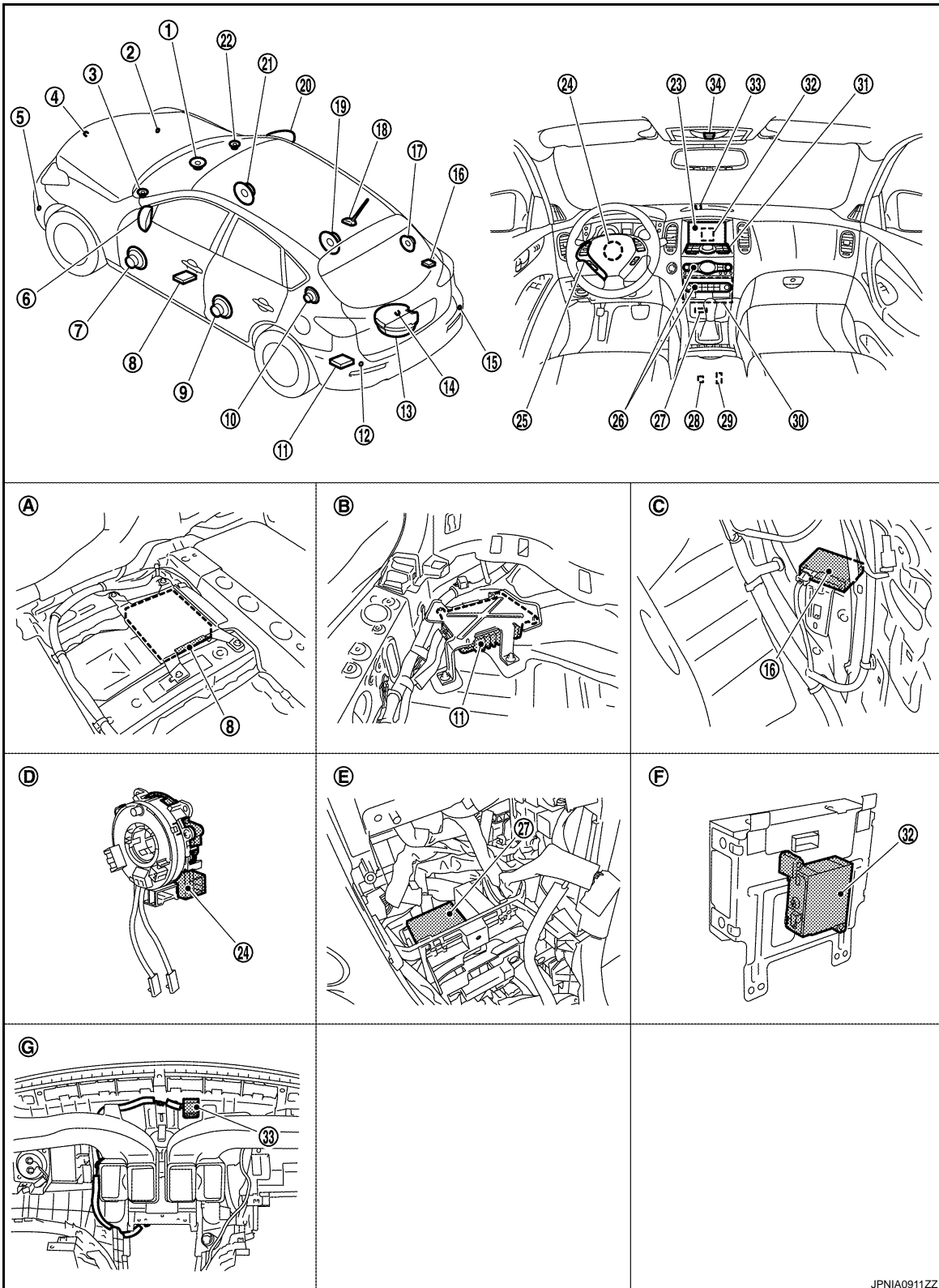
REAR VIEW MONITOR SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Component Parts Location

INFOID:000000003579818



- 1. Center speaker
- 4. Front camera

- 2. Corner sensor front RH
- 5. Corner sensor front LH

- 3. Front squawker LH
- 6. Side camera LH

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REAR VIEW MONITOR SYSTEM

[BOSE AUDIO WITH NAVIGATION]

< FUNCTION DIAGNOSIS >

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| 7. Front door speaker LH | 8. • Around view monitor control unit (with around view monitor)
• Camera control unit (with rear view monitor) | 9. Rear door speaker LH |
| 10. Rear squawker LH | 11. BOSE amp. | 12. Corner sensor rear LH |
| 13. Woofer | 14. • Rear camera (with around view monitor)
• Rear view camera (with rear view monitor) | 15. Corner sensor rear RH |
| 16. Buzzer | 17. Rear squawker RH | 18. Antenna base (antenna amp and satellite antenna) |
| 19. Rear door speaker RH | 20. Side camera RH | 21. Front door speaker RH |
| 22. Front squawker RH | 23. Display unit | 24. Steering angle sensor |
| 25. Steering switch | 26. Preset switch | 27. Sonar control unit (with around view monitor) |
| 28. iPod connector | 29. Auxiliary input jacks | 30. AV control unit |
| 31. Multifunction switch | 32. iPod adapter | 33. GPS antenna |
| 34. Microphone | | |
| A. Under front seat (LH side) | B. Luggage floor (LH side) | C. Luggage side RH |
| D. Spiral cable part | E. Cluster lid C removed condition | F. Rear view of the display unit |
| G. Instrument panel rear side | | |

Component Description

INFOID:000000003515974

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> Image on display is transmitted to rear view monitor image with serial communication between AV control unit and display unit. Warning displayed on the rear view monitor image is illustrated. AV control unit recognizes the presence of camera system with camera connection recognition signal.
DISPLAY UNIT	<ul style="list-style-type: none"> Camera image signal is transmitted from camera control unit, and RGB signal for warning display is transmitted from AV control unit. Rear view monitor image is changed by communication from AV control unit.
CAMERA CONTROL UNIT	<ul style="list-style-type: none"> Camera image signal is input from rear view camera. Camera image signal is output to display. Power (camera ON signal) is transmitted to rear view camera. Superimpose the guiding line and predicted course line to the camera image that outputs to display unit. Input the sensor signal from steering angle sensor, and then control the predicted course line. Camera control unit is connected via AV communication.
REAR VIEW CAMERA	<ul style="list-style-type: none"> The image of vehicle rear view is transmitted to camera control unit. It receives power (camera ON signal) from camera control unit and operates.
STEERING ANGLE SENSOR	Steering signal necessary for predicted course line control is transmitted to camera control unit.

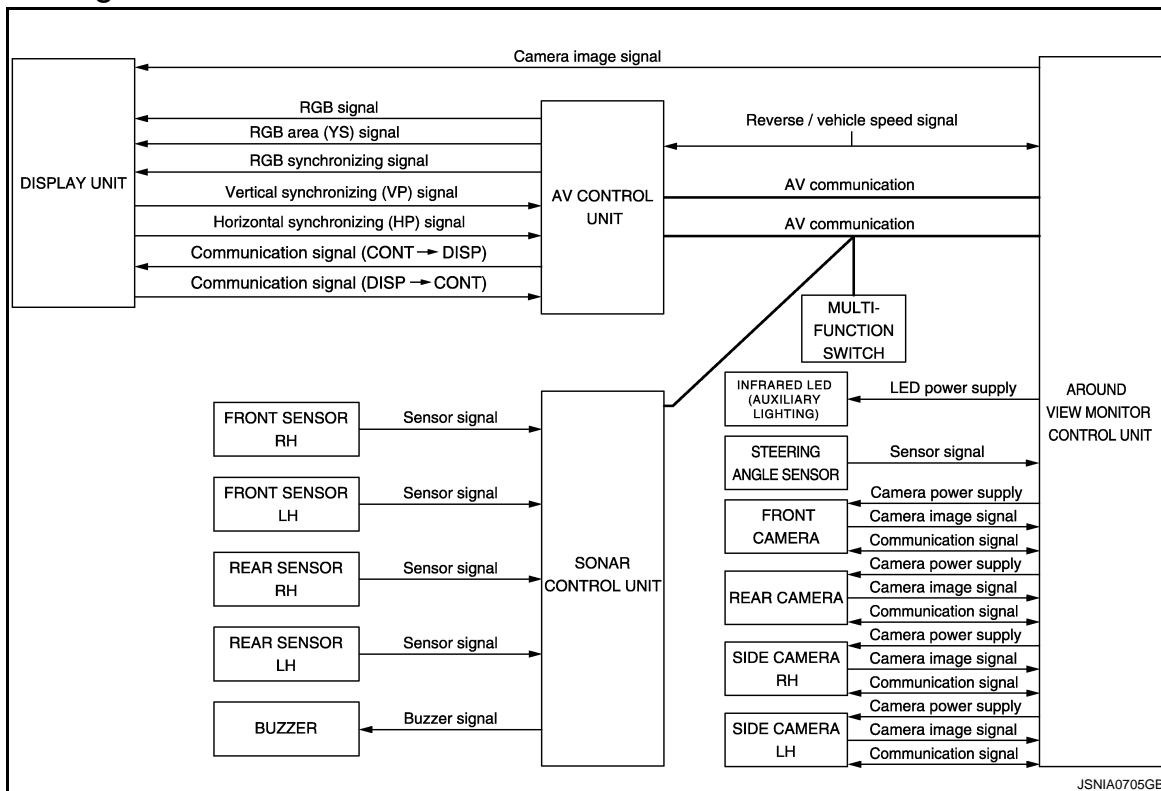
AROUND VIEW MONITOR SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

AROUND VIEW MONITOR SYSTEM

System Diagram



System Description

INFOID:000000003160620

- This system is equipped with wide-angle high-resolution cameras on the front and rear of the vehicle and on both right and left door mirrors. The images from front view, rear view, front-side view (RH side), and birds-eye view that shows the view from the top of the vehicle are displayed to monitor the vehicle surroundings.
- Around view monitor control unit cuts out and expands the image received from each camera to create each view.
- The sonar indicator is displayed on display (superimposed on the camera image) in combination with the camera assistance sonar system to warn of the approach of an obstacle.
- In front view and rear view, the vehicle width, distance lines and predicted course lines are superimposed and displayed. In front-side view, the vehicle distance guiding line and vehicle width guiding line are displayed.
- The Birds-Eye view converts the images from 4 cameras into the overhead view and displays the status of the vehicle on display. The vehicle icon and sonar indicator that are displayed on the Birds-Eye view display are rendered by around view monitor control unit.

AROUND VIEW MONITOR SCREEN

- Around view monitor combines and displays the travel direction view and "Birds-Eye view", "Front-Side view", and then it displays the sonar indicator on the "Birds-Eye view", "Front-Side view".
- AV control unit renders the "Change View", "BEEP" switch, view icon, warning message on display.

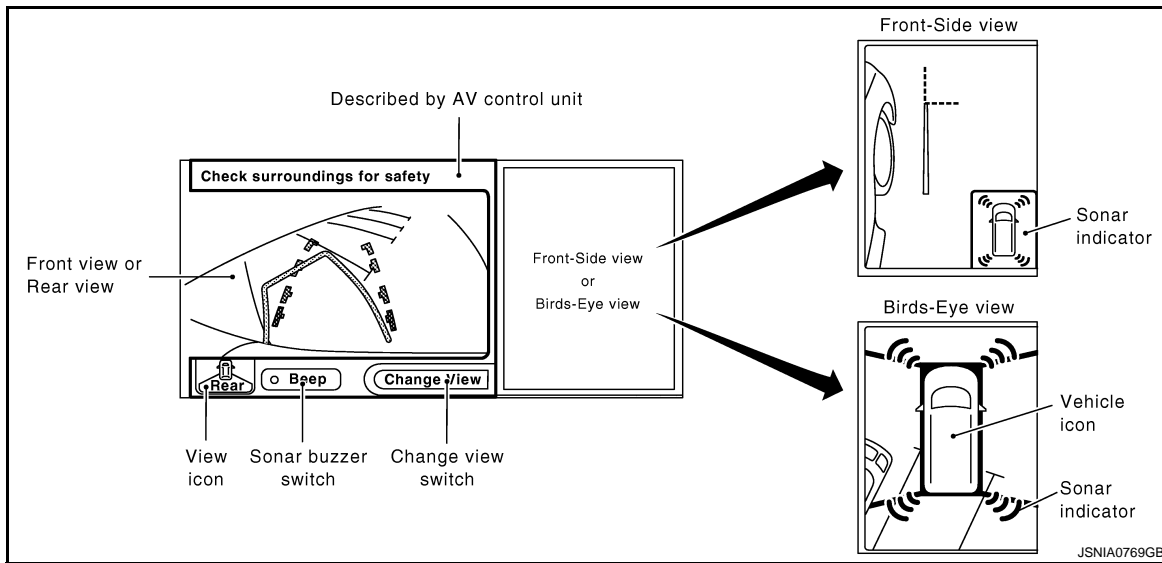
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AROUND VIEW MONITOR SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Screen constitution



OPERATION DESCRIPTION

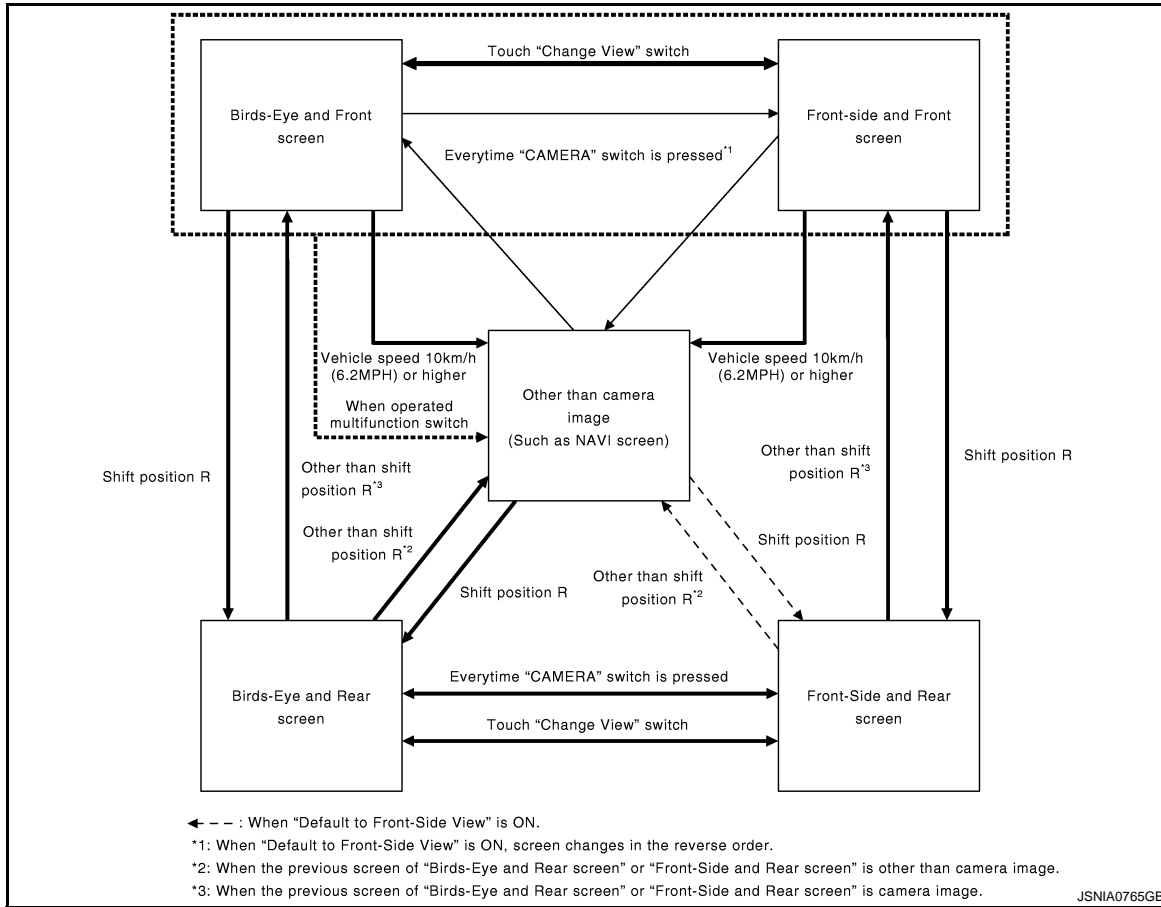
- Around view monitor operates by pressing the “CAMERA” switch of multifunction switch and shifting the selector switch to the reverse position.
- When the selector lever is in any position other than the reverse position, the screen is switched to the around view monitor by pressing the “CAMERA” switch.
- The screen is switched to the around view monitor by shifting the selector lever to the reverse position.
- In the around view monitor, Birds-Eye view and Front-side view can be switched by pressing the “CAMERA” switch or the touch switch of display.
- The “Front-Side and Front screen” are displayed as a priority when turning “Default to Front-Side View” ON.
- The around view monitor is cancelled 3 minutes after pressing the “CAMERA” switch, and then the screen returns to the screen before displaying the around view monitor when selector lever is in a position other than the “R” position.
- ON/OFF setting of sonar indicator display on the Front-Side view screen can be performed.
- In the Birds-Eye view, the invisible area is displayed on the image to specify the boundary of the 4 cameras. The invisible area is displayed in yellow in the Birds-Eye view after turning the ignition switch ON.
- The sonar (both of buzzer and sound) operates only when the camera screen is displayed.

AROUND VIEW MONITOR SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Around view monitor screen transition



FRONT VIEW

- The front view image is from the front camera.
- When the selector lever is in any position other than the reverse position, the front view is displayed by pressing the "CAMERA" switch. It improves the visibility of obstacles in front of the vehicle and helps driving by the images displayed from Birds-Eye view and Front-Side view.
- Display the vehicle width guiding line and vehicle distance guiding line in front view and display the predicted course line according to the steering angle.
- If the steering angle is within approximately 90 degrees, the predicted course lines on the left/right side are displayed. If the steering angle is exceeding approximately 90 degrees, only the predicted course line on the outside (in the opposite side of steering direction) is displayed.
- Around view monitor control unit controls the direction and distance of the predicted course line according to the sensor signal from steering angle sensor.

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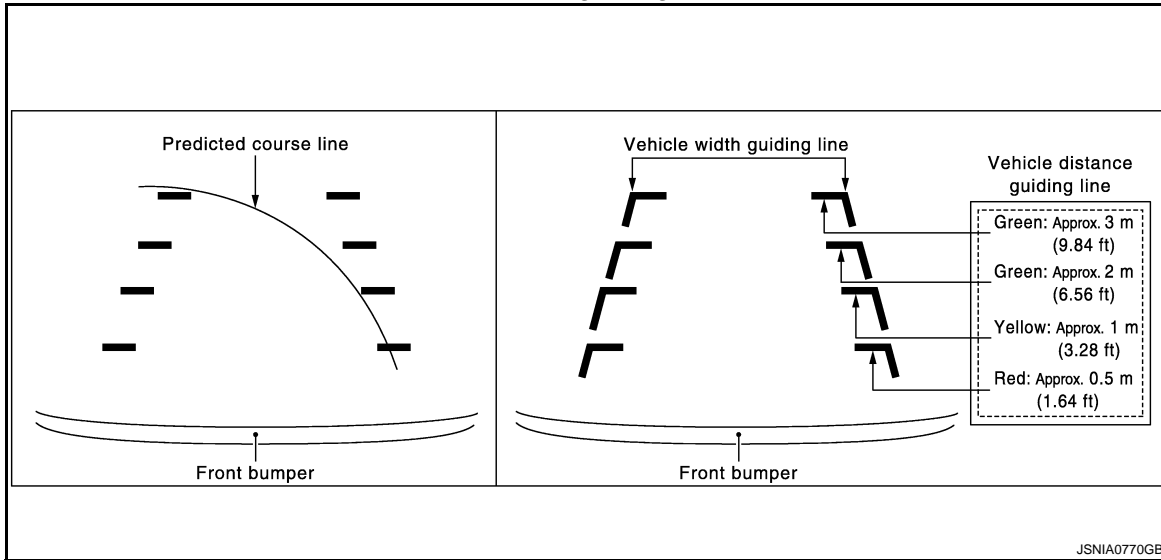
AV

AROUND VIEW MONITOR SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

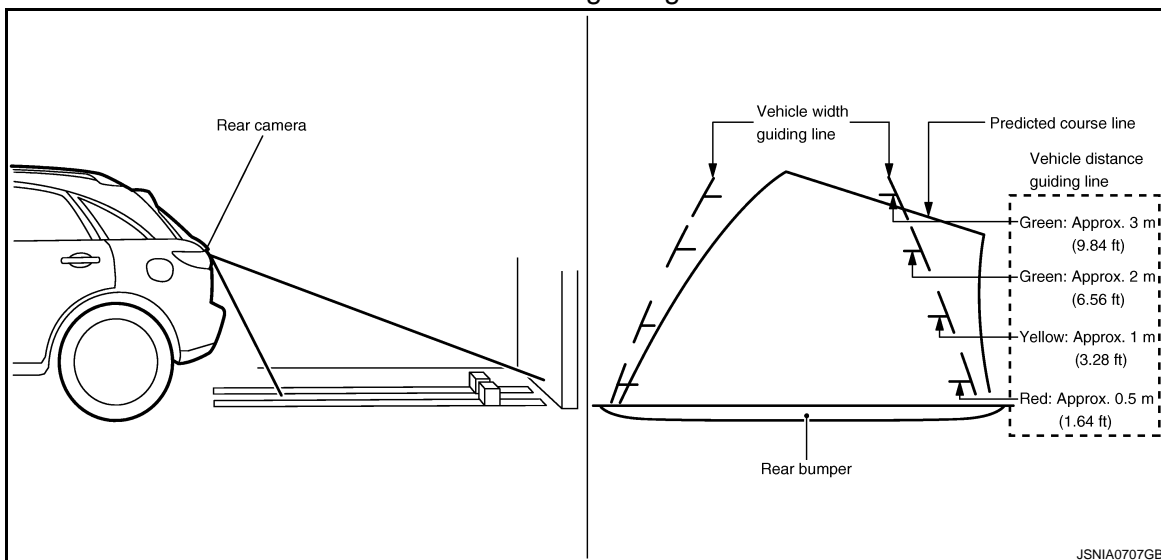
Front view guiding lines



REAR VIEW

- The rear view image is from the rear camera.
- When the selector lever is in the reverse position, the rear view is displayed. Backing and parking are improved by the images from Birds-Eye view and Front-Side view.
- Display the vehicle width guiding line and vehicle distance guiding line in Rear view and display the predicted course line according to the steering angle.
- The predicted course line is not displayed at the steering neutral position. The predicted course line is displayed and the vehicle width guiding line is not displayed by turning the steering wheel.
- Around view monitor control unit controls the direction and distance of predicted course line according to the sensor signal from steering angle sensor.

Rear view guiding lines



FRONT-SIDE VIEW

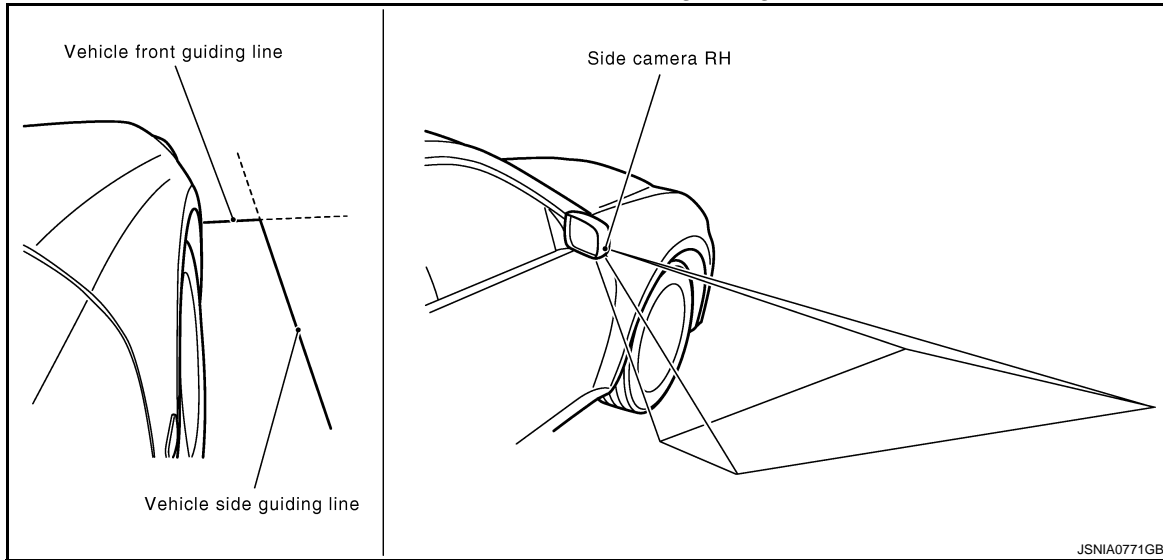
- The front-side view image is from the side camera RH.
- In Front-Side view, display the vehicle distance guiding line and vehicle width guiding line.
- The infrared LED illumination is installed on the door mirror RH to illuminate around the front wheels.

AROUND VIEW MONITOR SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

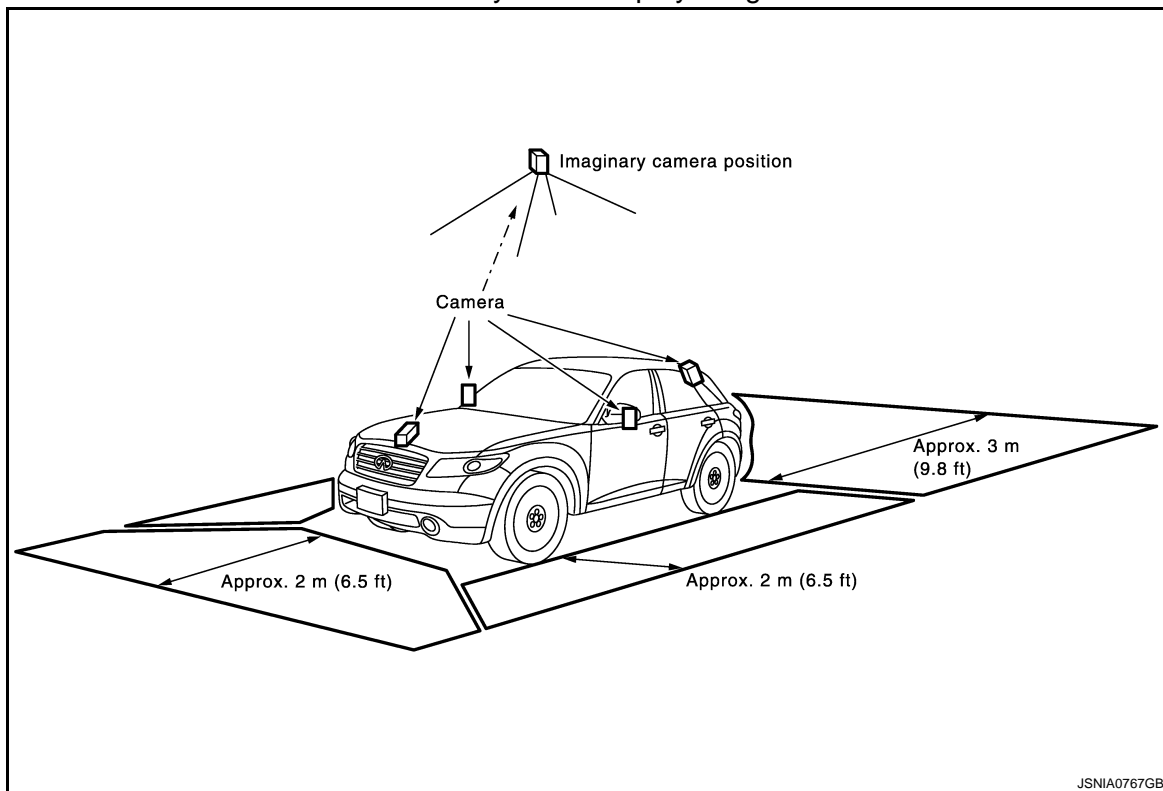
Front-side view area and guiding line



BIRDS-EYE VIEW

- The image from the 4 cameras is cut out and converted into the overhead view, and the surroundings of the vehicle is displayed in birds-eye view.
- In Birds-Eye view, the invisible area is displayed on the image to specify the boundary of the 4 cameras.
- The invisible area is displayed in yellow in the Birds-Eye view after turning the ignition switch ON as an information for the user. (OFF setting can be performed)

Birds-Eye view display image

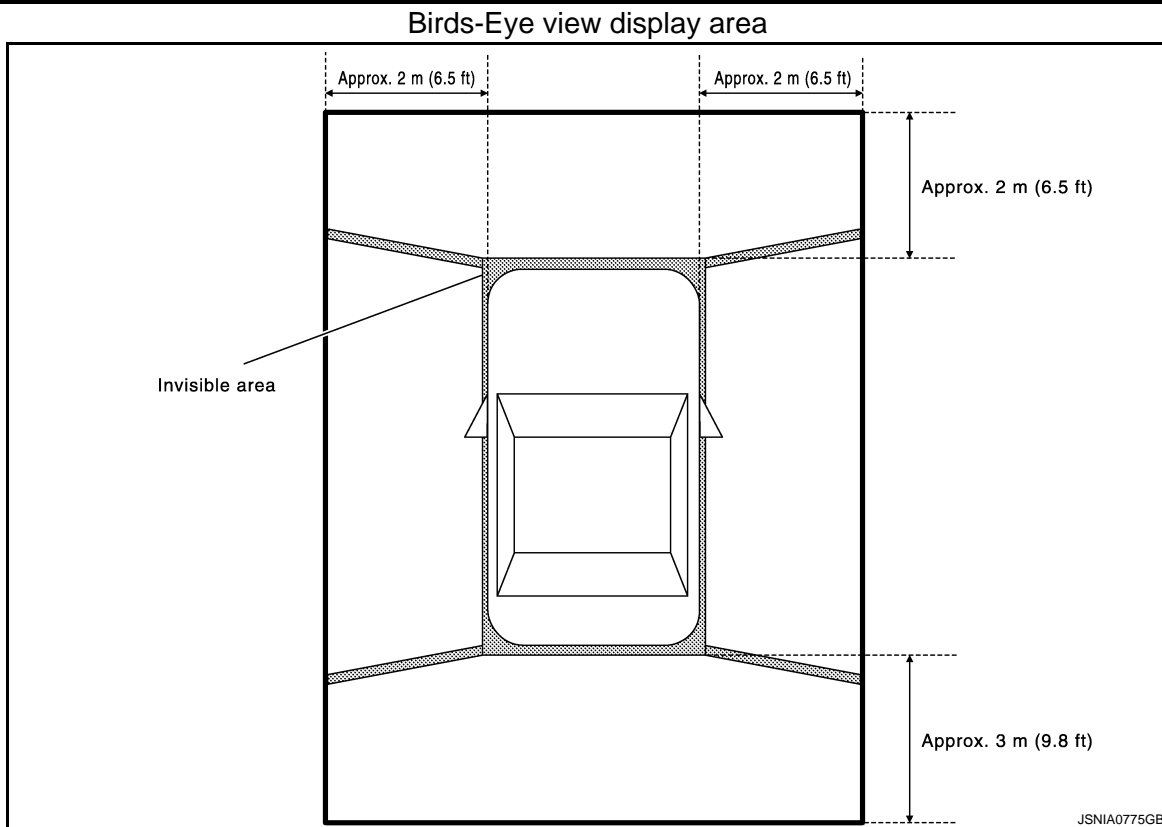


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AROUND VIEW MONITOR SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]



CAMERA IMAGE OPERATION PRINCIPLE

- If the information writing to around view monitor control unit and the information from the camera are not matched, the applicable camera position is indicated as an error on the Birds-Eye view display. (Calibration operation is necessary when replacing each camera or when replacing around view monitor control unit.)
- Around view monitor control unit receives the camera switch signal from AV control unit via AV communication by pressing the “CAMERA” switch of multifunction switch.
- Around view monitor control unit that receives the camera switch signal supplies the power to each camera and inputs the camera image from each camera.
- When the selector lever is in the reverse position, around view monitor control unit receives the reverse signal from AV control unit via AV communication, supplies the power to each camera, and inputs the camera image from each camera.
- Around view monitor control unit that receives the camera image signal from each camera cuts out the required screen for each view, superimposes the camera image, vehicle icon, guiding lines, sonar indicator, and outputs them to the display unit.

PREDICTED COURSE LINE OPERATION PRINCIPLE

Detection of steering rotation direction

Around view monitor control unit detects the rotation direction of steering according to the phase difference of two pairs of pulse signals (sensor signal 1 and sensor signal 2) input from steering angle sensor.

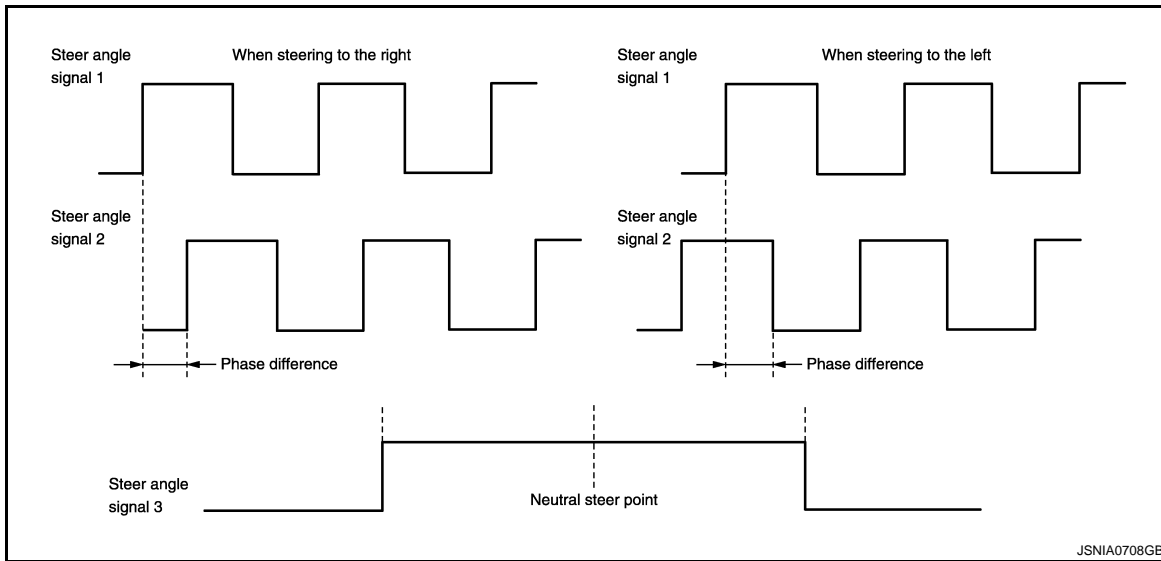
Detection of steering neutral position

The sensor signal 3 input from the steering angle sensor is generated at 1 pulse per 1 rotation of the steering wheel. Around view monitor control unit detects the steering neutral position from this pulse.

AROUND VIEW MONITOR SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]



Correction of steering neutral position

Around view monitor control unit corrects the steering neutral position during driving according to the vehicle speed signal and steering angle sensor signal.

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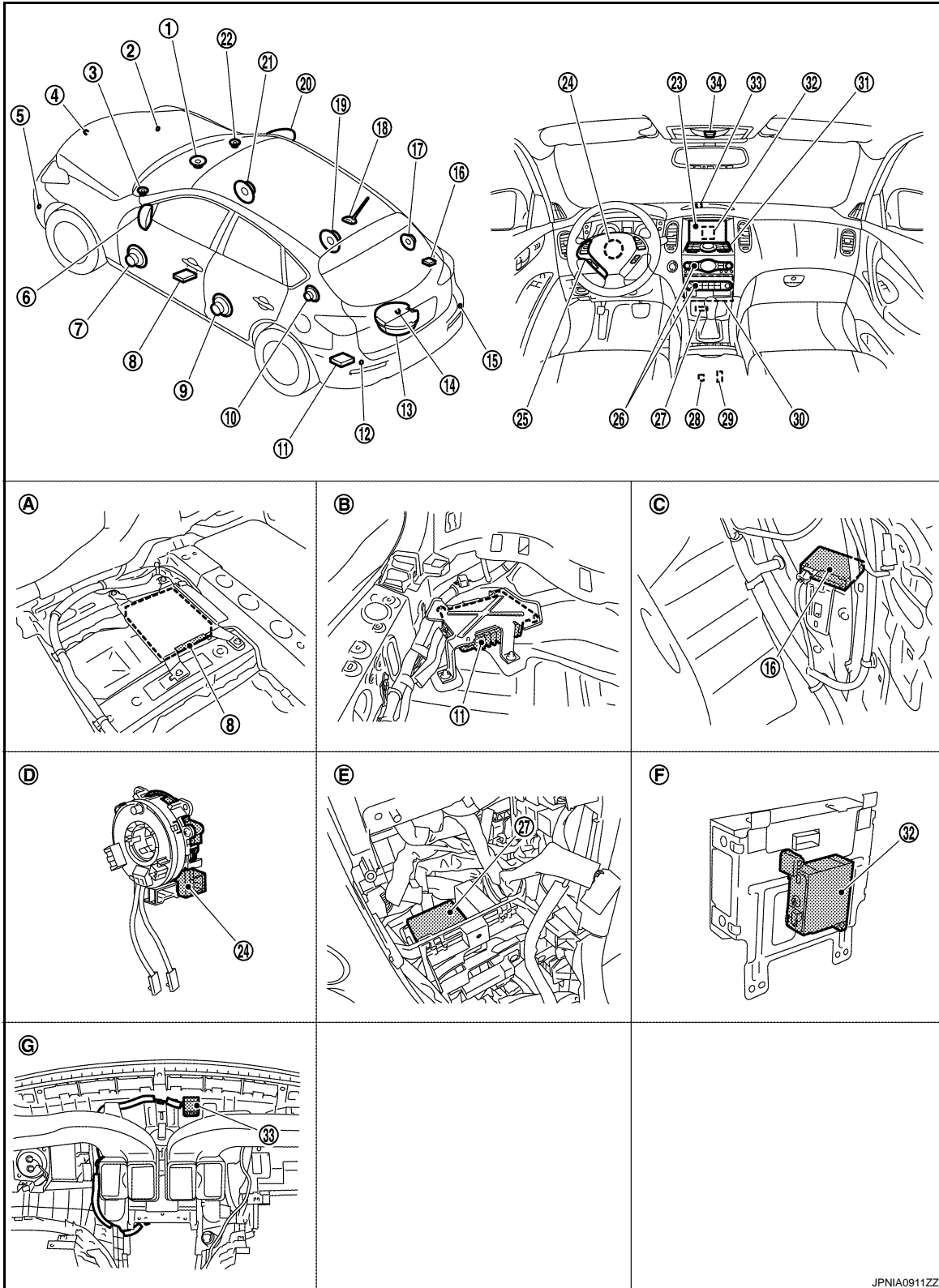
AROUND VIEW MONITOR SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Component Parts Location

INFOID:00000003579819



- 1. Center speaker
- 4. Front camera

- 2. Corner sensor front RH
- 5. Corner sensor front LH

- 3. Front squawker LH
- 6. Side camera LH

AROUND VIEW MONITOR SYSTEM

[BOSE AUDIO WITH NAVIGATION]

< FUNCTION DIAGNOSIS >

- | | | |
|-------------------------------|--|--|
| 7. Front door speaker LH | 8. • Around view monitor control unit (with around view monitor)
• Camera control unit (with rear view monitor) | 9. Rear door speaker LH |
| 10. Rear squawker LH | 11. BOSE amp. | 12. Corner sensor rear LH |
| 13. Woofer | 14. • Rear camera (with around view monitor)
• Rear view camera (with rear view monitor) | 15. Corner sensor rear RH |
| 16. Buzzer | 17. Rear squawker RH | 18. Antenna base (antenna amp and satellite antenna) |
| 19. Rear door speaker RH | 20. Side camera RH | 21. Front door speaker RH |
| 22. Front squawker RH | 23. Display unit | 24. Steering angle sensor |
| 25. Steering switch | 26. Preset switch | 27. Sonar control unit (with around view monitor) |
| 28. iPod connector | 29. Auxiliary input jacks | 30. AV control unit |
| 31. Multifunction switch | 32. iPod adapter | 33. GPS antenna |
| 34. Microphone | | |
| A. Under front seat (LH side) | B. Luggage floor (LH side) | C. Luggage side RH |
| D. Spiral cable part | E. Cluster lid C removed condition | F. Rear view of the display unit |
| G. Instrument panel rear side | | |

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Component Description

INFOID:000000003160622

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> Image on display is switched to around view monitor by serial communication between AV control unit and display unit. Warning displayed in around view monitor image is illustrated.
DISPLAY UNIT	<ul style="list-style-type: none"> Camera image signal is transmitted from around view monitor control unit, and RGB signal for warning display is transmitted from AV control unit. Around view monitor image is switched by serial communication between AV control unit and display unit.
MULTIFUNCTION SWITCH	It transmits the CAMERA switch signal via AV communication to AV control unit.
AROUND VIEW MONITOR CONTROL UNIT	<ul style="list-style-type: none"> It supplies power to front camera, rear camera, and side camera, superimposes the images from each camera, and then outputs them to display unit. It receives the CAMERA switch signal and reverse signal from AV control unit via AV communication. Superimpose the guiding line, predicted course line and sonar indicator to the camera image that outputs to display unit. It performs the reception/transmission of communication signal with each camera. Input the sensor signal from steering angle sensor, and then control the predicted course line. It transmits the information received/transmitted with sonar control unit via AV communication to AV control unit.
FRONT CAMERA	<ul style="list-style-type: none"> It inputs the power supply from around view monitor control unit and outputs the image of the vehicle front to around view monitor control unit. It performs the reception/transmission of the communication signal with around view monitor control unit.
REAR CAMERA	<ul style="list-style-type: none"> It inputs the power supply from around view monitor control unit and outputs the image of the vehicle rear to around view monitor control unit. It performs the reception/transmission of the communication signal with around view monitor control unit.
SIDE CAMERA LH	<ul style="list-style-type: none"> It inputs the power supply from around view monitor control unit and outputs the image of the vehicle LH to around view monitor control unit. It performs the reception/transmission of the communication signal with around view monitor control unit.

AROUND VIEW MONITOR SYSTEM

< FUNCTION DIAGNOSIS >

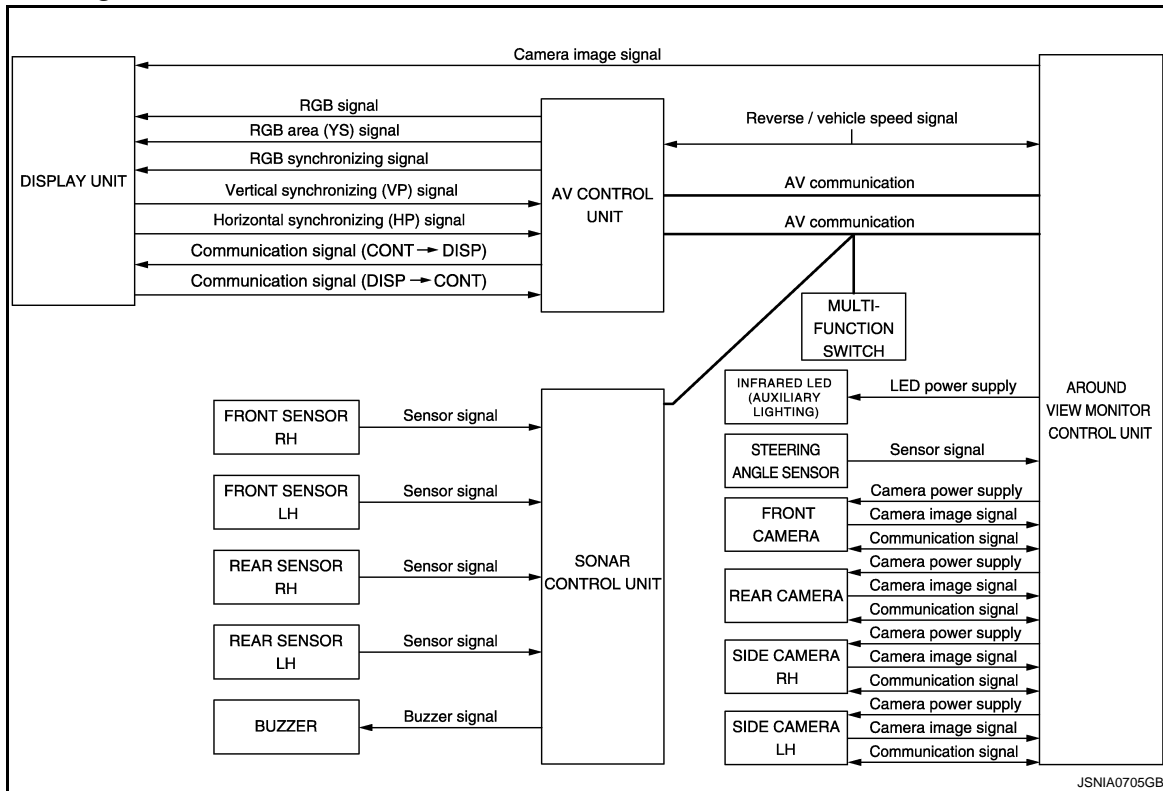
[BOSE AUDIO WITH NAVIGATION]

Part name	Description
SIDE CAMERA RH	<ul style="list-style-type: none">• It inputs the power supply from around view monitor control unit and outputs the image of the vehicle RH to around view monitor control unit.• It performs the reception/transmission of the communication signal with around view monitor control unit.
INFRARED LED (AUXILIARY LIGHTING)	It illuminates around the front RH wheel by the power supply from around view monitor control unit to improve nighttime visibility of Front-Side view.
SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)	<ul style="list-style-type: none">• It is connected with around view monitor control unit via AV communication and receives the sonar operation signal from around view monitor control unit.• It transmits the sonar detection status to around view monitor control unit via AV communication.
STEERING ANGLE SENSOR	Steering signal necessary for predicted course line control is transmitted to around view monitor control unit.

CAMERA ASSISTANCE SONAR SYSTEM

System Diagram

INFOID:000000003160623



JSNIA0705GB

System Description

INFOID:000000003464881

Description

- Install the corner sensor on the front bumper and rear bumper. It detects the obstacles around the vehicle when the around view monitor is displayed. It warns of the approach to the obstacles with the buzzer and indicator in the display linked with the around view monitor system.
- It displays the distance between the bumper and obstacle with the color of sonar indicator in the display and the blinking cycle of indicator in 3 stages.
- The buzzer warns of the distance to the obstacles with the cycle in 3 stages.

System operation description

- Around view monitor control unit transmits the sonar operation signal via AV communication to sonar control unit to control the operation of sonar indicator and sonar buzzer.
- Sonar control unit that receives the sonar operation signal from around view monitor control unit transmits the detection signal and detection distance signal according to the signal from corner sensor via AV communication to around view monitor control unit. around view monitor control unit operates the applicable sonar indicator.
- Sonar control unit that receives the sonar operation signal from around view monitor control unit outputs the buzzer signal to other buzzers based on the detection distance signal from corner sensor to operate the buzzer.
- Sonar control unit has the diagnosis function. It can detect the corner sensor malfunction or sensor harness open circuit. It transmits the diagnosis results to around view monitor control unit and always displays the sonar indicator in red to inform the user.

Obstacle detection distance

- Sonar control unit changes the outputs of the sonar indicator and warning buzzer in 3 stages according to the obstacle detection distance from the corner sensor.
- The sonar control unit can change the setting of obstacle detection distance in 4 stages.

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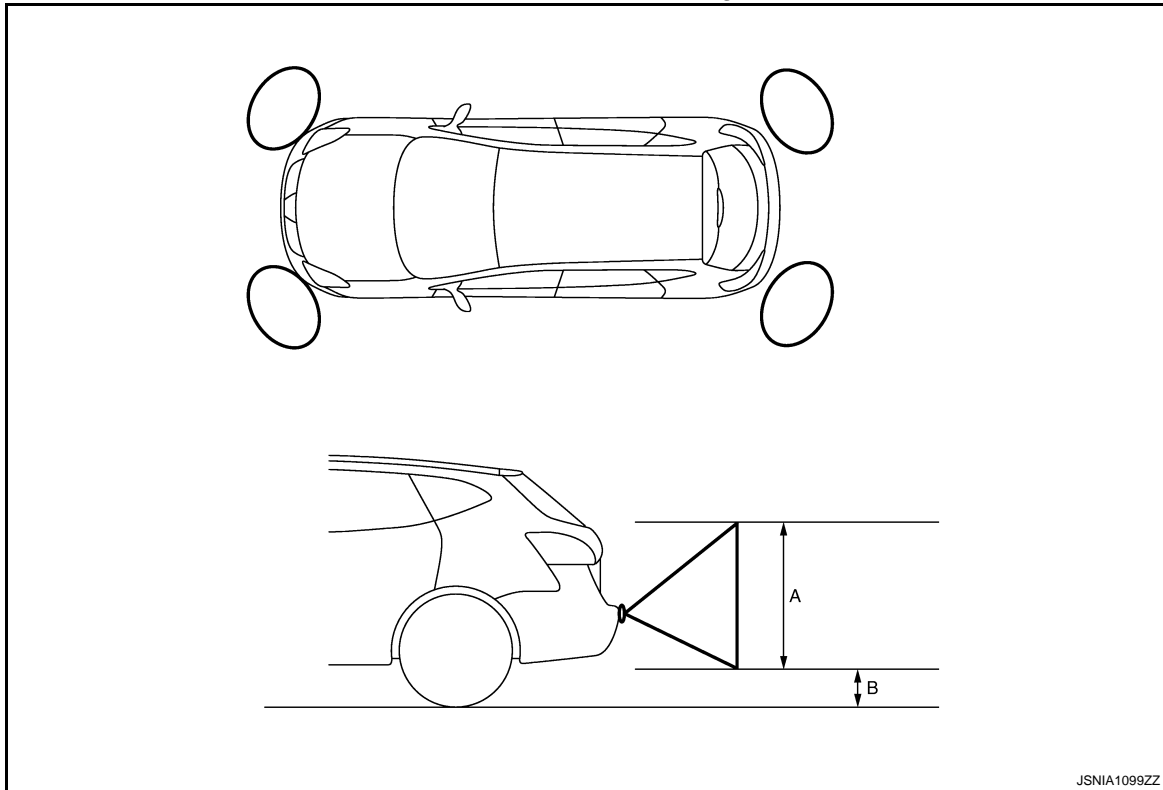
AV

CAMERA ASSISTANCE SONAR SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Obstacle detection image



A. Approx. 50 cm (19.6 in)

B. Approx. 15 cm (5.9 in)

Detection distance

Warning item	Sensitivity level 1 (Faster warning)	Sensitivity level 2 (Default value)	Sensitivity level 3 (Slower warning)	Sensitivity level 4 (Slowest warning)
First stage warning	70 – 80 cm (27.5 – 31.4 in)	60 – 70 cm (23.6 – 27.5 in)	50 – 60 cm (29.6 – 23.6 in)	40 – 50 cm (15.7 – 19.6 in)
Second stage warning	50 – 70 cm (19.6 – 27.5 in)	40 – 60 cm (15.7 – 23.6 in)	30 – 50 cm (11.8 – 19.6 in)	30 – 40 cm (11.8 – 15.7 in)
Third stage warning	Less than 50 cm (19.6 in)	Less than 40 cm (15.7 in)	Less than 30 cm (11.8 in)	Less than 30 cm (11.8 in)

SONAR INDICATOR DISPLAY

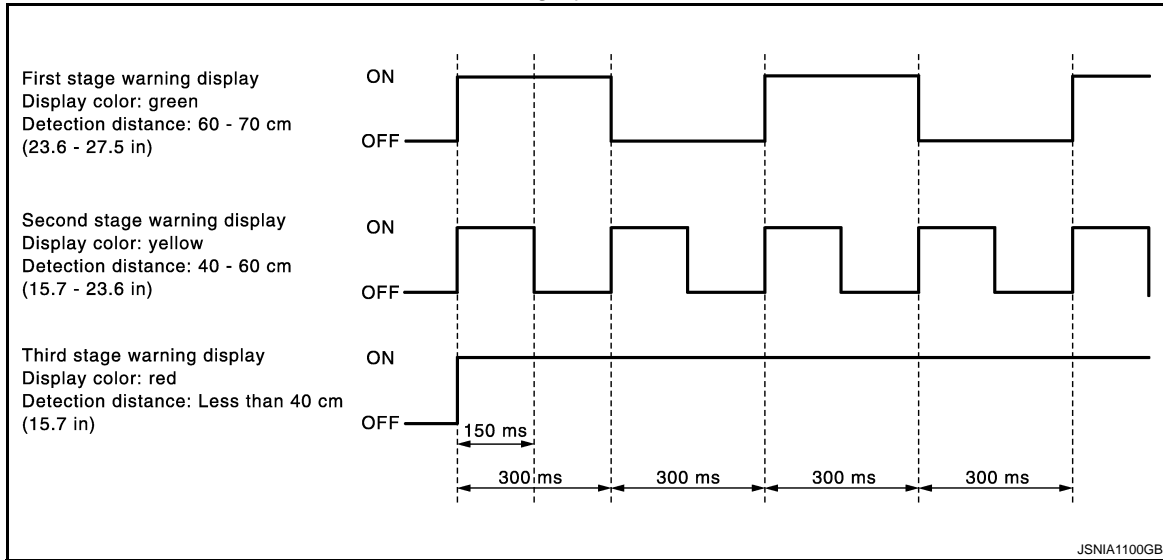
- Around view monitor control unit that receives the detection signal and detection distance signal from sonar control unit displays the sonar indicator on display.
- Around view monitor control unit changes the color or blinking cycle of the indicator according to the detection distance.

CAMERA ASSISTANCE SONAR SYSTEM

[BOSE AUDIO WITH NAVIGATION]

< FUNCTION DIAGNOSIS >

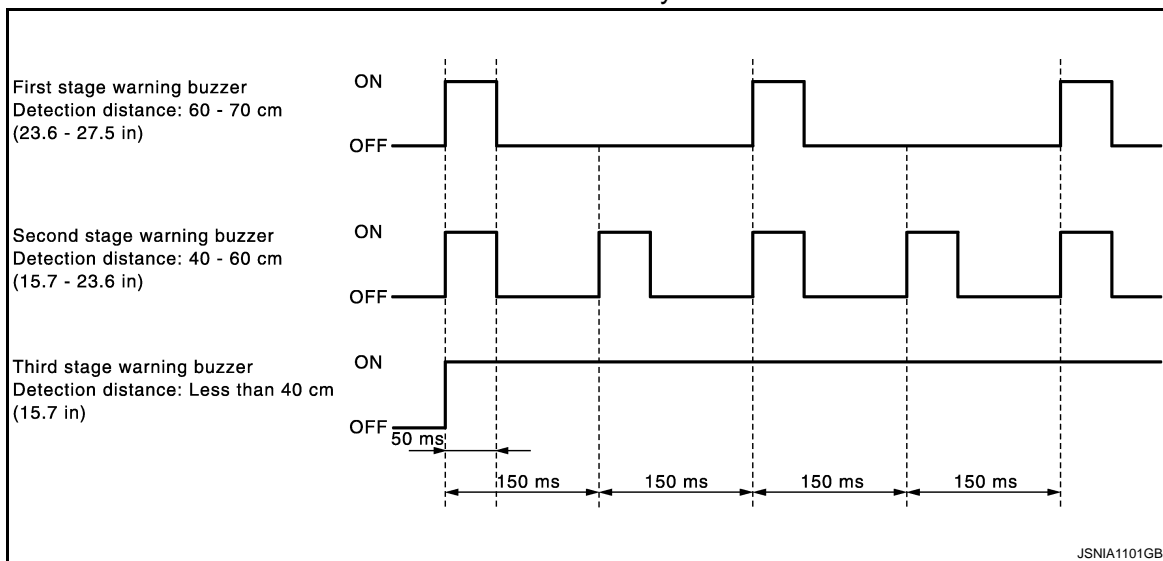
Color and blinking cycle of sonar indicator



SONAR BUZZER OPERATION

- Sonar control unit outputs the buzzer signal to other buzzers and operates the buzzer when the detection signal is input from the corner sensor.
- It changes the buzzer cycle in 3 stages according to the detection distance.

Sonar buzzer cycle



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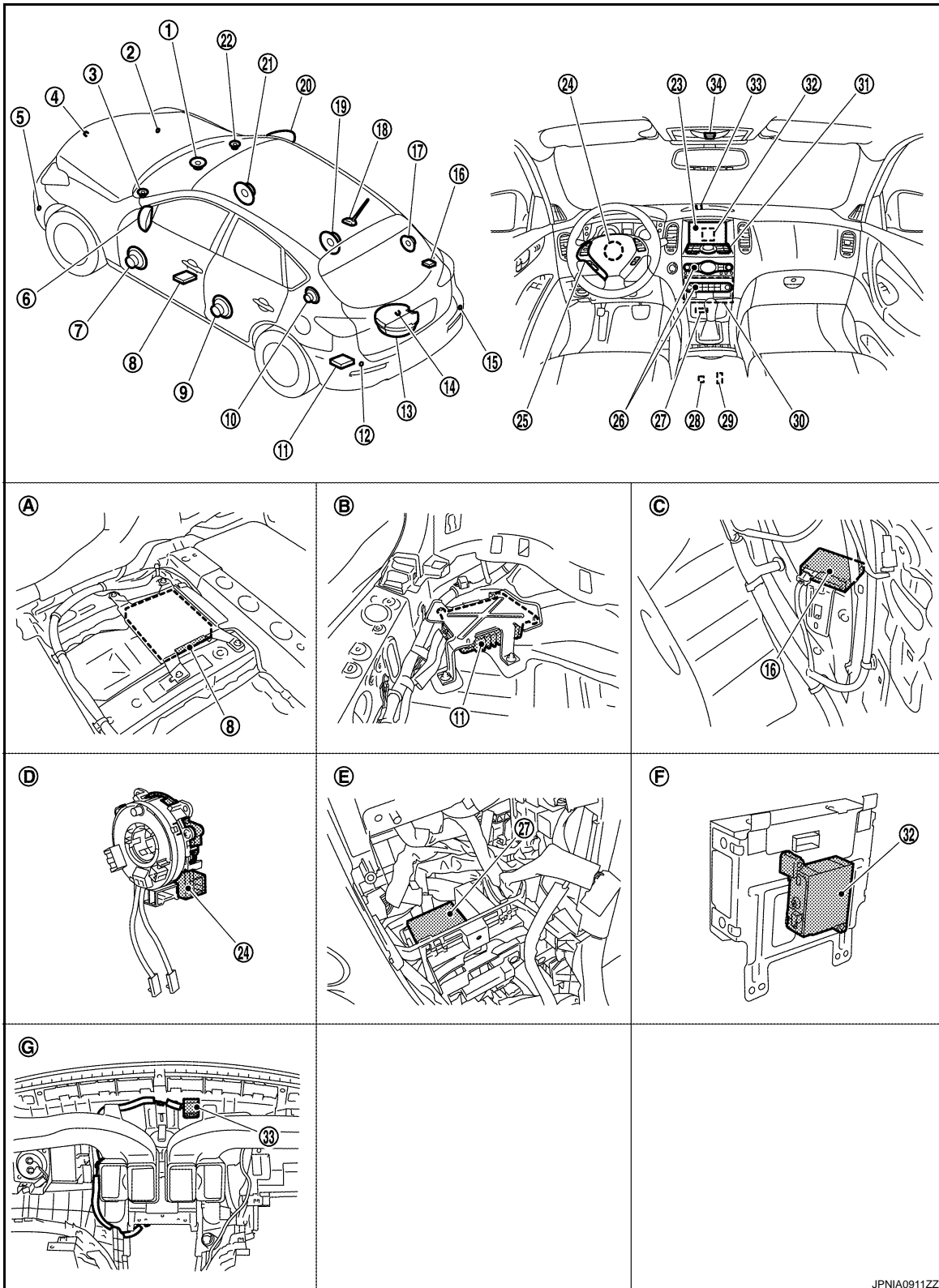
CAMERA ASSISTANCE SONAR SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Component Parts Location

INFOID:00000003579820



- 1. Center speaker
- 4. Front camera

- 2. Corner sensor front RH
- 5. Corner sensor front LH

- 3. Front squawker LH
- 6. Side camera LH

CAMERA ASSISTANCE SONAR SYSTEM

[BOSE AUDIO WITH NAVIGATION]

< FUNCTION DIAGNOSIS >

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| 7. Front door speaker LH

10. Rear squawker LH
13. Woofer

16. Buzzer

19. Rear door speaker RH
22. Front squawker RH
25. Steering switch

28. iPod connector
31. Multifunction switch
34. Microphone
A. Under front seat (LH side)
D. Spiral cable part
G. Instrument panel rear side | 8. • Around view monitor control unit (with around view monitor)
• Camera control unit (with rear view monitor)

11. BOSE amp.
14. • Rear camera (with around view monitor)
• Rear view camera (with rear view monitor)

17. Rear squawker RH

20. Side camera RH
23. Display unit
26. Preset switch

29. Auxiliary input jacks
32. iPod adapter

B. Luggage floor (LH side)
E. Cluster lid C removed condition | 9. Rear door speaker LH

12. Corner sensor rear LH
15. Corner sensor rear RH

18. Antenna base (antenna amp and satellite antenna)

21. Front door speaker RH
24. Steering angle sensor
27. Sonar control unit (with around view monitor)

30. AV control unit
33. GPS antenna

C. Luggage side RH
F. Rear view of the display unit |
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Component Description

INFOID:000000003160627

Part name	Description
AROUND VIEW MONITOR CONTROL UNIT	<ul style="list-style-type: none"> It supplies power to front camera, rear camera, and side camera. And then it superimposes the images from each camera and outputs them to display unit. Superimposes the guiding line, predicted course line and sonar indicator to the camera image that outputs to display unit. It performs the reception/transmission of communication signal with each camera. Inputs the sensor signal from the steering angle sensor, and then controls the predicted course line. It transmits the sonar operation signal from sonar control unit and receives the sonar information from the sonar control unit via AV communication. It transmits the information received/transmitted with the sonar control unit via AV communication to AV control unit.
SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)	<ul style="list-style-type: none"> It is connected with around view monitor control unit via AV communication and receives the sonar operation signal from around view monitor control unit. It transmits the sonar detection status to around view monitor control unit via AV communication. It judges the warning level according to the signal from corner sensor and outputs the buzzer drive signal. Trouble diagnosis is supported with CONSULT-III (K-LINE).
CORNER SENSOR	The obstacle distance is detected. The signal is transmitted to sonar control unit.
BUZZER	The warning buzzer outputs with the signal from sonar control unit.

AV

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

Diagnosis Description

INFOID:000000003465021

MULTIFUNCTION SWITCH AND PRESET SWITCH SELF-DIAGNOSIS FUNCTION

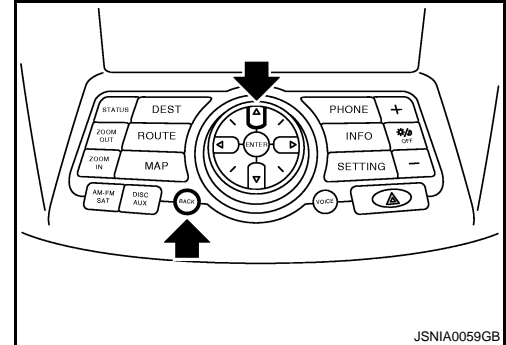
The ON/OFF operation (continuity) of each switch in multifunction switch and preset switch can be checked.

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 in the ON position can be checked by pressing the switch. The buzzer sounds if the switch is normal.

CAUTION:

The hazard switch and Disk eject switch cannot be checked.



Finishing self-diagnosis mode

Self-diagnosis mode is canceled when turning the ignition switch OFF.

MULTI AV SYSTEM ON BOARD DIAGNOSIS FUNCTION

- AV control unit diagnosis function starts up with multifunction switch operation and 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, multifunction switch does not function, etc.

ON BOARD DIAGNOSIS

Description

- The trouble diagnosis function has a self-diagnosis mode for conducting trouble diagnosis automatically and a confirmation/adjustment mode for operating manually.
- The self-diagnosis mode performs diagnoses on AV control unit, connections between system components, AV control unit and GPS antenna and between AV control unit and satellite radio antenna. Then it displays the diagnosis results on 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 a judgment automatically).

On board diagnosis item

Mode	Description
Self Diagnosis	<ul style="list-style-type: none">• AV control unit diagnosis• Diagnoses the connections across system components, between AV control unit and GPS antenna and between AV control unit and satellite radio antenna.

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

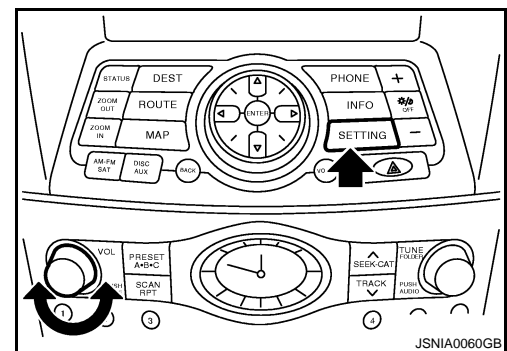
< FUNCTION DIAGNOSIS >

[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 and touch panel calibration response check.	
	Vehicle Signals	Diagnosis of signals can be performed for vehicle speed, parking brake, lights, ignition switch, and reverse.	
	Speaker Test	The connection of a speaker can be confirmed by test tone.	
	Climate Control	Start auto air conditioner system self-diagnosis.	
	Navigation	Steering Angle Adjustment	When there is a difference between the actual turning angle and the vehicle mark turning angle, it can be adjusted.
		Speed Calibration	When there is a difference between the current location mark and the actual location, it can be adjusted.
		XM SAT Subscription Status	The XM NavTraffic subscription status can be checked.
	Error History	The system malfunction and the frequency when occurring in the past are displayed. When the malfunctioning item is selected, the time and place that the selected malfunction last occurred are displayed.	
	Synchronizer FES clock	-	
	Vehicle CAN Diagnosis	The transmitting/receiving of CAN communication can be monitored.	
	AV COMM Diagnosis	The communication condition of each unit of Multi AV system can be monitored.	
	Handsfree Phone	The received volume adjustment of hands-free phone, microphone speaker check, and erase memory can be performed.	
	Camera Cont.	With rear view monitor	The signal connected to camera control unit can be checked and the guiding line position that overlaps rear view camera image can be adjusted.
		With around view monitor	It can perform the confirmation of a signal connection to around view monitor control unit, the calibration of each camera, Correct Draw Line of Camera Image, and Fine Tuning of Birds-Eye View. Refer to AV-503 . " Diagnosis Description ".
	Bluetooth	The passkey and the device name can be checked and changed.	
	SAT	Change Channel	Any necessary channels required to receive traffic information from the satellite radio system can be set.
		Change Application ID	Any application IDs 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 AV control unit memory.	

STARTING PROCEDURE

1. Start the engine.
2. Turn the audio system OFF.
3. While pressing the "SETTING" button, turn the volume control dial clockwise or counterclockwise for 40 clicks or more. (When the self-diagnosis mode is starts, a short beep will sound.)
 - Shifting from current screen to previous screen is performed by pressing the "BACK" button.

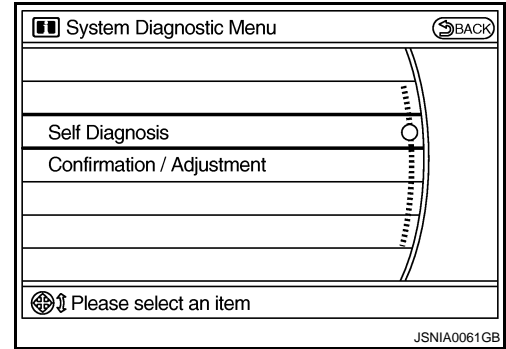


DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BOSE AUDIO WITH NAVIGATION]

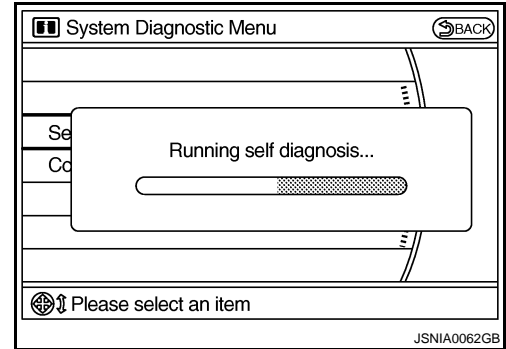
< FUNCTION DIAGNOSIS >

- The trouble diagnosis initial screen is displayed, and then the items of "Self Diagnosis" and "Confirmation/Adjustment" can be selected.



SELF-DIAGNOSIS MODE

- Start the self-diagnosis function and select "Self Diagnosis".
 - Self-diagnosis subdivision screen is displayed, and the self-diagnosis mode starts.
 - The bar graph visible on the center of the self-diagnosis subdivision screen indicates progress of the trouble diagnosis.

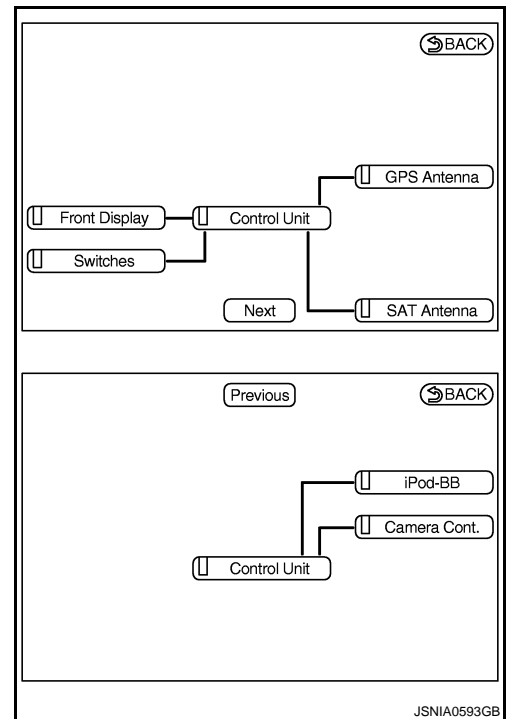


- Diagnosis results are displayed after the self-diagnosis is completed. The unit names and the connection lines are color-coded according to the diagnostic results.

Diagnosis results	Unit	Con- nection line
Normal	Green	Green
Connection malfunction	Gray	Yellow
Unit malfunction ^{Note}	Red	Green

NOTE:

- Only the control unit (AV control unit) is displayed in red.
 - Replace AV control unit if "Self-Diagnosis did not run because of a control unit malfunction" is indicated. The symptom is an AV control unit internal error. Refer to [AV-903. "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.

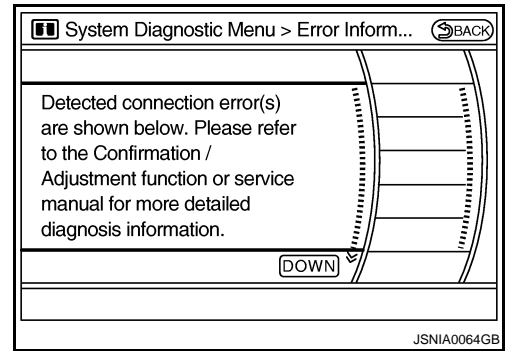


DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

- 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 AV control unit.
- Because the start condition of diagnosis function is switch operated, the on board diagnosis function cannot be started up if any malfunction is detected in the communication circuit between AV control unit and multi-function switch.

SELF-DIAGNOSIS RESULTS

Check the applicable display in the following table, and then repair the malfunctioning parts.

With Rear View Monitor, With Around View Monitor, Without Rear View Monitor and Around View Monitor (common item)

Area with yellow connection lines	Detection logic	Possible malfunction location / Action to take
<p>■ : Red JSNIA0594GB</p> <p>NOTE: When a control unit malfunction is detected (red in unit display), connection malfunction with other connection unit may be displayed.</p> <p>"Self-Diagnosis did not run because of a control unit malfunction"</p>	<p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • AV control unit power supply or ground circuits malfunction are detected. • AV control unit malfunction is detected. 	<ul style="list-style-type: none"> • AV control unit power supply and ground circuits. • When there is no malfunction, AV control unit is malfunctioning.

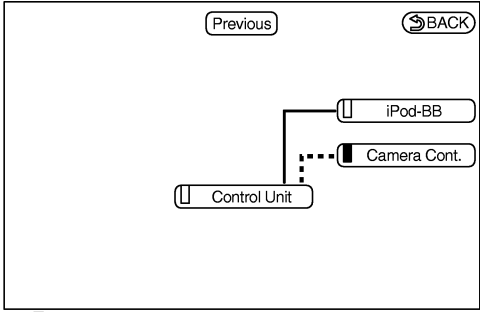
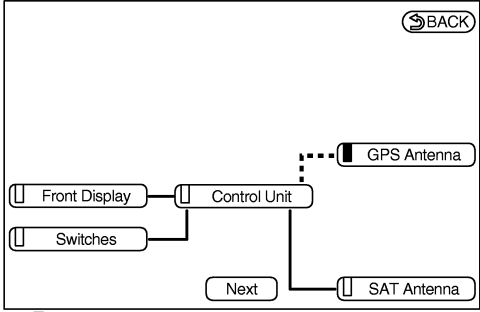
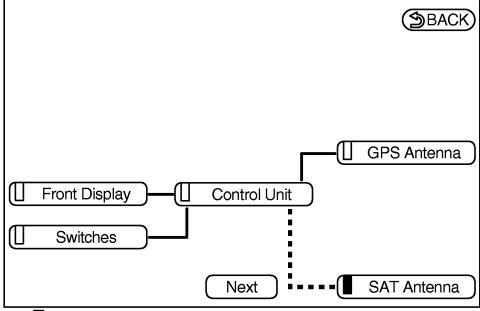
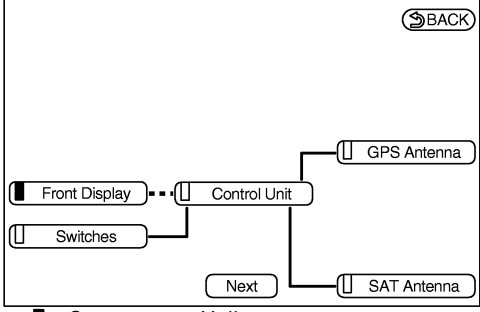
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AV

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

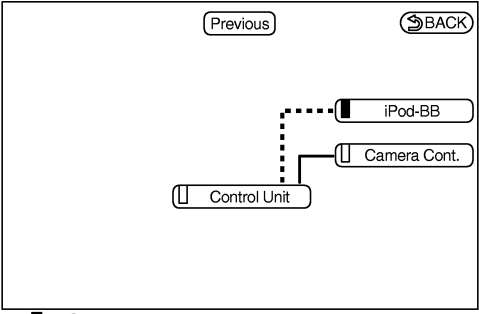
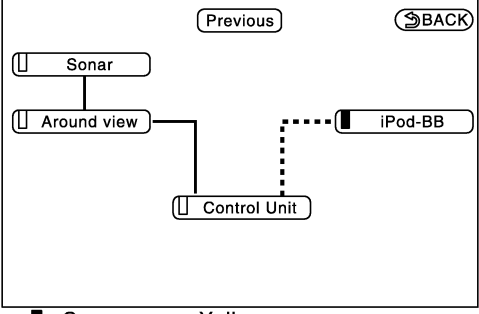
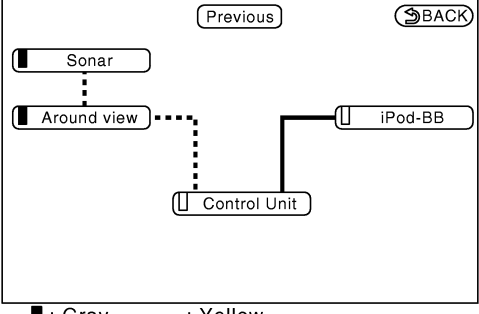
[BOSE AUDIO WITH NAVIGATION]

Area with yellow connection lines	Detection logic	Possible malfunction location / Action to take
 <p>Legend: ■ : Gray - - - - : Yellow</p> <p>JSNIA0596GB</p>	<p>Malfunction is detected in the Camera-connection recognition signal circuit.</p>	<p>Camera connection recognition signal circuit.</p>
 <p>Legend: ■ : Gray - - - - : Yellow</p> <p>JSNIA0597GB</p>	<p>GPS antenna connection malfunction is detected.</p>	<p>GPS antenna.</p>
 <p>Legend: ■ : Gray - - - - : Yellow</p> <p>JSNIA0598GB</p>	<p>Poor connection is detected in satellite radio antenna.</p>	<ul style="list-style-type: none"> • Satellite radio antenna feeder. • Satellite radio antenna.
 <p>Legend: ■ : Gray - - - - : Yellow</p> <p>JSNIA0599GB</p>	<p>Malfunction are detected in the communication circuits between AV control unit and display unit.</p>	<p>Communication circuits between AV control unit and display unit.</p>

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Area with yellow connection lines	Detection logic	Possible malfunction location / Action to take
 <p>■ : Gray - - - - : Yellow</p> <p>JSNIA0600GB</p>	<p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • iPod adapter power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between camera control unit and iPod adapter. 	<ul style="list-style-type: none"> • iPod adapter power supply and ground circuits. • AV communication circuits between camera control unit and iPod adapter.
 <p>■ : Gray - - - - : Yellow</p> <p>JPNIA1158GB</p>	<p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • iPod adapter power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between around view monitor control unit and iPod adapter. 	<ul style="list-style-type: none"> • iPod adapter power supply and ground circuits. • AV communication circuits between around view monitor control unit and iPod adapter.
 <p>■ : Gray - - - - : Yellow</p> <p>JSNIA1102GB</p>	<p>Around view monitor control unit power supply or ground circuits malfunction are detected.</p>	<p>Around view monitor control unit power supply and ground circuits</p>

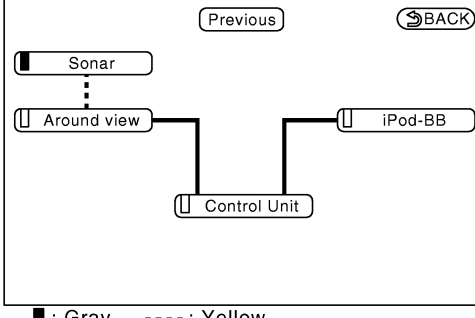
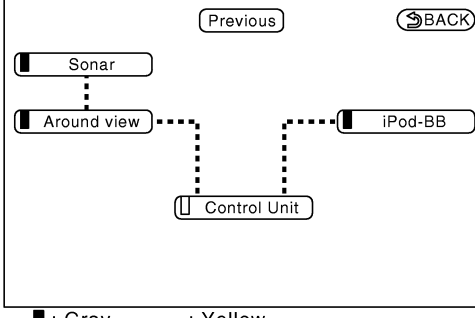
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AV

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

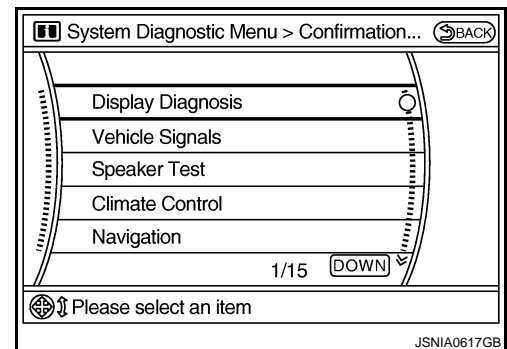
< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Area with yellow connection lines	Detection logic	Possible malfunction location / Action to take
 <p>■ : Gray - - - - : Yellow</p> <p>JSNIA1104GB</p>	<p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • Sonar control unit power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between sonar control unit and the junction between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> • Sonar control unit power supply and ground circuits. • AV communication circuits between sonar control unit and the junction between AV control unit and multifunction switch.
 <p>■ : Gray - - - - : Yellow</p> <p>JSNIA1103GB</p>	<p>Malfunction is detected in the AV communication circuits between around view monitor control unit and the junction between AV control unit and multifunction switch.</p>	<p>AV communication circuits between around view monitor control unit and the junction between AV control unit and multifunction switch.</p>

CONFIRMATION/ADJUSTMENT MODE

1. Start the diagnosis function and select "Confirmation/Adjustment". The confirmation/adjustment mode indicates where each item can be checked or adjusted.
2. Select each switch on the "Confirmation/Adjustment Mode" screen to display the relevant trouble diagnosis screen. Press the "BACK" switch to return to the initial Confirmation/Adjustment Mode screen.

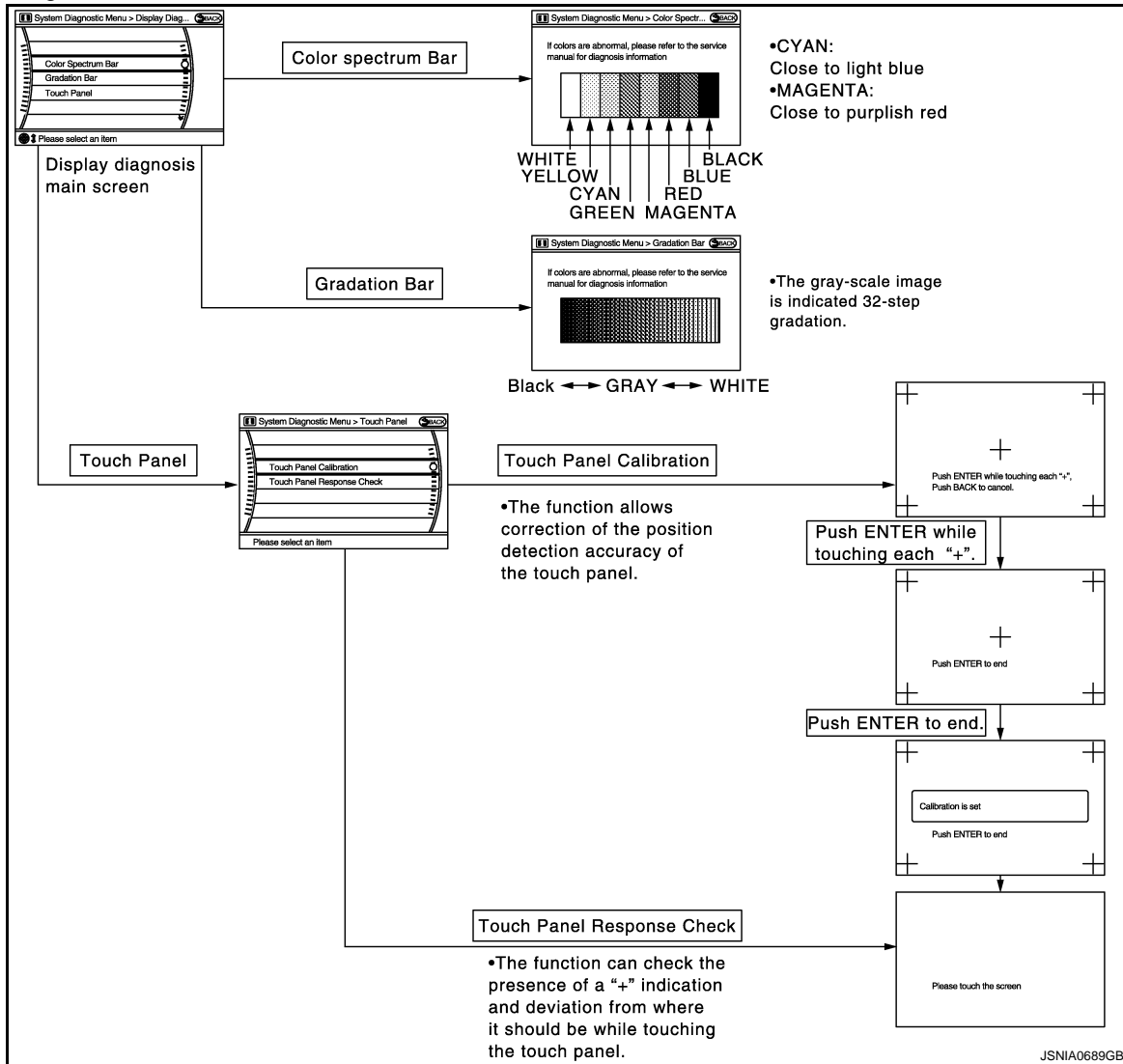


DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Display Diagnosis

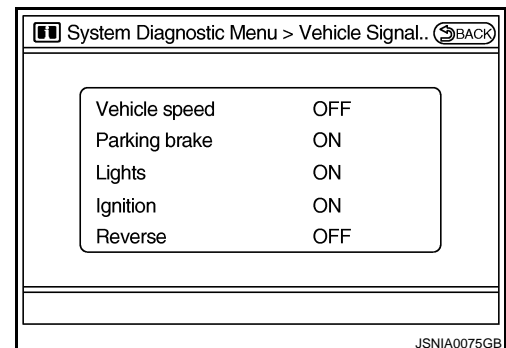


The tint of the color bar indication is as per the following list if a RGB signal error is detected.

- R (red) signal error** : Light blue (Cyan) tint
- G (green) signal error** : Purple (Magenta) tint
- B (blue) signal error** : Yellow tint

Vehicle Signals

A comparison check can be made of each actual vehicle signal and the signals recognized by the system.



DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[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 THE ACC position	—
Reverse	ON	Shift the selector lever to the "R" position	Changes in indication may be delayed. This is normal.
	OFF	Shift the selector lever to a position other than the "R" position	

Speaker Test

Select "SPEAKER DIAGNOSIS" to display the Speaker Diagnosis screen. Press "START and NEXT" to generate a test tone in a speaker. Press "Start" to generate a test tone in the next speaker. Press "End" to stop the test tones.

NOTE:

The frequency of test tone emitted from each speaker is as follows.

Tweeter* : 3 kHz
Front speaker : 300 Hz
Rear speaker : 1 kHz

*: Squawker

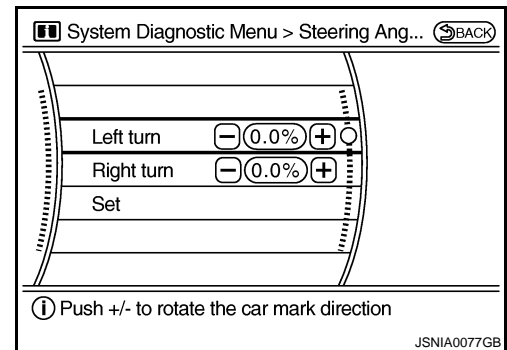
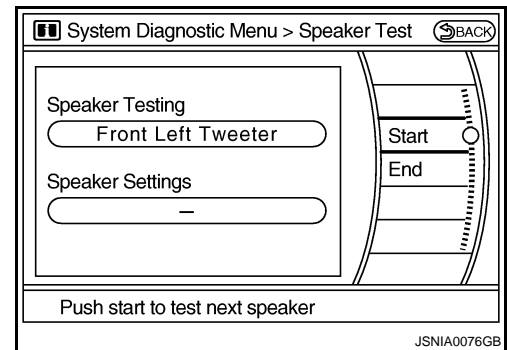
Climate Control

Refer to "HEATER & AIR CONDITIONING CONTROL SYSTEM" for details.

Navigation

STEERING ANGLE ADJUSTMENT

The steering angle output value detected with the gyroscope is adjusted.



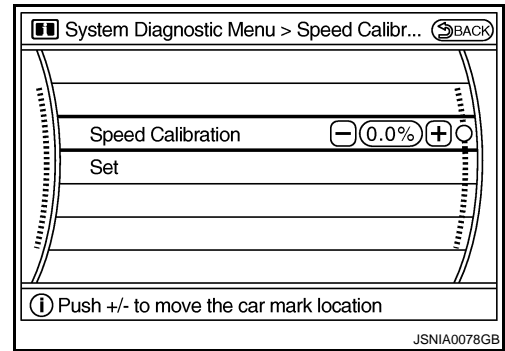
SPEED CALIBRATION

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

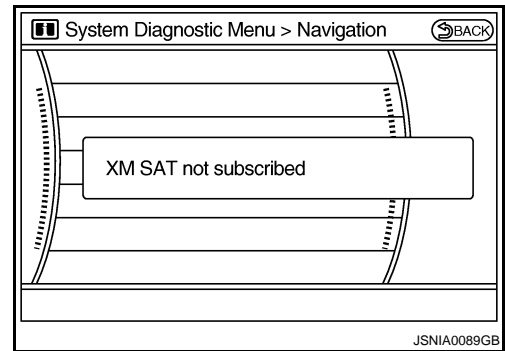
[BOSE AUDIO WITH NAVIGATION]

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 chains fitted on tires.



XM SAT SUBSCRIPTION STATUS

The XM NavTraffic subscription status can be checked.



Error History

The self-diagnosis results are judged depending on whether any error occurs from when "Self-diagnosis" is selected until the self-diagnosis results are displayed.

However, the diagnosis results are judged normal if an error has occurred before the ignition SW is turned ON and then no error has occurred until the self-diagnosis start. Check the "Error Record" to detect any error that may have occurred before the self-diagnosis start because of this condition.

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 AV control unit, the correct date and time of occurrence may not be displayed.
- Place of the error occurrence is represented by the position of the current location mark at the time an error occurred. If current location mark has deviated from the correct position, then the place of the error occurrence cannot be located correctly.
- The frequency of occurrence is displayed in a count up manner. The actual count up method differs depending on the error item.

Count up method A

- The counter resets to 0 if an error occurs when IGN switch is turned ON. The counter increases by 1 if the condition is normal at a next IGN ON cycle.
- The counter upper limit is 39. Any counts exceeding 39 are ignored. The counter can be reset (no error record display) with the "Delete log" switch or CONSULT-III.

Count up method B

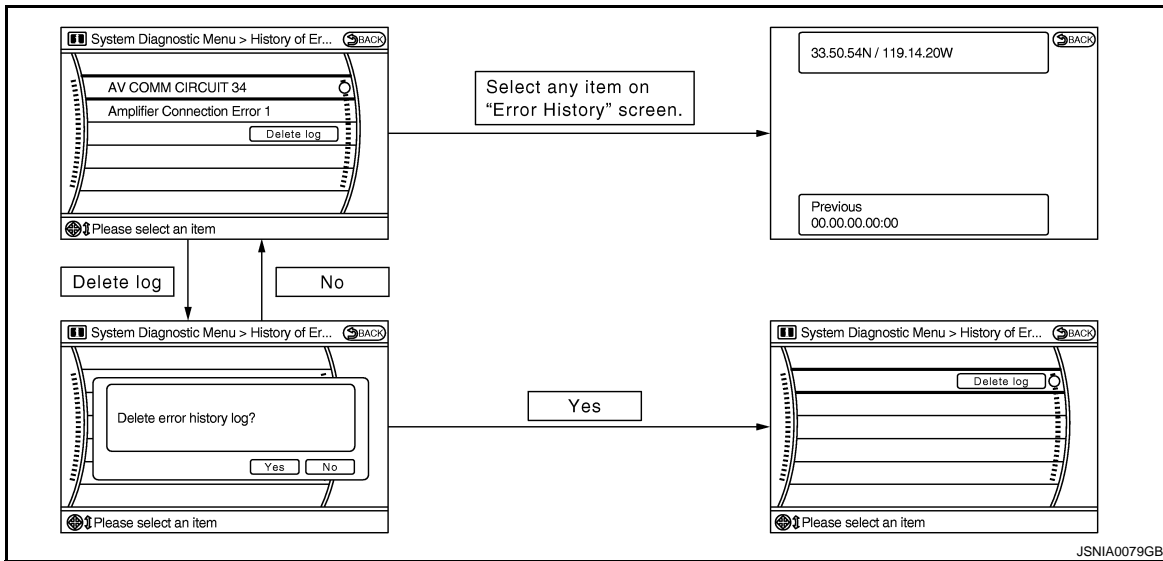
- The counter increases by 1 if an error occurs when IGN switch is ON. The counter will not decrease even if the condition is normal at the next IGN ON cycle.
- The counter upper limit is 50. Any counts exceeding 50 are ignored. The counter can be reset (no error record display) with the "Delete log" switch or CONSULT-III.

Display type of occurrence frequency	Error history display item
Count up method A	CAN communication line, control unit (CAN), AV communication line, control unit (AV communication)
Count up method B	Other than the above

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]



Error item

Some error items may be displayed simultaneously according to the cause. If some error items are displayed simultaneously, the detection of the cause can be performed by the combination of display items.

Error item	Detection logic	Possible malfunction factor/Action to take
CAN COMM CIRCUIT	CAN communication malfunction is detected.	Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results. Refer to AV-498, "CONSULT-III Function (MULTI AV)" .
CONTROL UNIT (CAN)	CAN initial diagnosis malfunction is detected.	Replace AV control unit.
CONTROL UNIT (AV)	AV communication circuit initial diagnosis malfunction is detected.	
FLASH-ROM Error Of Control Unit	AV control unit malfunction is detected.	
Connection Of Gyro		
XM SERIAL COMM Error		
CAN Controller Memory Error		
Bluetooth Module Connection Error		
HDD CONN Error		
HDD READ Error		
HDD WRITE Error		
HDD COMM Error		
HDD ACCESS Error		
DSP CONN Error		
DSP COMM Error		
Internal Communication Error	When either one of the following items are detected: <ul style="list-style-type: none"> Malfunction is detected in AV control unit power supply or ground circuits. AV control unit malfunction is detected. 	<ul style="list-style-type: none"> AV control unit power supply and ground circuits. When there is no malfunction, AV control unit is malfunctioning.
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 AV control unit if the malfunction occurs constantly.
GPS ROM Error		
GPS RAM Error		
GPS RTC Error		

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Error item	Detection logic	Possible malfunction factor/Action to take
Front Display Connection Error	When either one of the following items are detected: <ul style="list-style-type: none"> • Display unit power supply or ground circuits malfunction are detected. • Malfunction is detected in the communication circuits between AV control unit and display unit. 	<ul style="list-style-type: none"> • Display unit power supply and ground circuits. • Communication circuits between AV control unit and display unit.
GPS Antenna Error	GPS antenna connection malfunction is detected.	GPS antenna.
Camera Control Unit Connection Error	Malfunction is detected in the camera connection recognition circuit between AV control unit and camera control unit.	Camera-connection recognition circuit between AV control unit and camera control unit.
XM Antenna Connection Error	Poor connection is detected in satellite radio antenna.	<ul style="list-style-type: none"> • Satellite radio antenna feeder. • Satellite radio antenna.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Internal Communication Error 	When either one of the following items are detected: <ul style="list-style-type: none"> • AV control unit power supply or ground circuits malfunction are detected. • AV control unit malfunction is detected. 	<ul style="list-style-type: none"> • AV control unit power supply and ground circuits. • When there is no malfunction, AV control unit is malfunctioning.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Switches Connection Error 	WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR When either one of the following items are detected: <ul style="list-style-type: none"> • Multifunction switch power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between multifunction switch and the junction between AV control unit and iPod adapter. 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuits. • AV communication circuits between multifunction switch and the junction between AV control unit and iPod adapter.
	WITH REAR VIEW MONITOR When either one of the following items are detected: <ul style="list-style-type: none"> • Multifunction switch power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between multifunction switch and the junction between AV control unit and camera control unit. 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuits. • AV communication circuits between multifunction switch and the junction between AV control unit and camera control unit.
	WITH AROUND VIEW MONITOR When either one of the following items are detected: <ul style="list-style-type: none"> • Multifunction switch power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between multifunction switch and the junction between AV control unit and around view monitor control unit. 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuits. • AV communication circuits between multifunction switch and the junction between AV control unit and around view monitor control unit.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Rearview Camera Connection Error 	Camera control unit power supply or ground circuits malfunction is detected.	Camera control unit power supply and ground circuits.

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DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Error item	Detection logic	Possible malfunction factor/Action to take
<ul style="list-style-type: none"> • AV COMM CIRCUIT • iPod Connection Error 	<p>WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR</p> <p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • iPod adapter power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between camera control unit and iPod adapter. 	<p>WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR</p> <ul style="list-style-type: none"> • iPod adapter power supply and ground circuits. • AV communication circuits between multifunction switch and iPod adapter.
	<p>WITH REAR VIEW MONITOR</p> <p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • iPod adapter power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between camera control unit and iPod adapter. 	<p>WITH REAR VIEW MONITOR</p> <ul style="list-style-type: none"> • iPod adapter power supply and ground circuits. • AV communication circuits between camera control unit and iPod adapter.
	<p>WITH AROUND VIEW MONITOR</p> <p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • iPod adapter power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between around view monitor control unit and iPod adapter. 	<p>WITH AROUND VIEW MONITOR</p> <ul style="list-style-type: none"> • iPod adapter power supply and ground circuits. • AV communication circuits between around view monitor control unit and iPod adapter.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • AVM Connection Error 	<p>Around view monitor control unit power supply or ground circuits malfunction is detected.</p>	<p>Around view monitor control unit power supply and ground circuits.</p>
<ul style="list-style-type: none"> • AV COMM CIRCUIT • AVM Sonar Connection Error 	<p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • Sonar control unit power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between sonar control unit and the junction between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> • Sonar control unit power supply and ground circuits. • AV communication circuits between sonar control unit and the junction between AV control unit multifunction switch.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Switches Connection Error • iPod Connection Error 	<p>Malfunction is detected in the AV communication circuits between AV control unit and the junction between multifunction and iPod adapter.</p>	<p>AV communication circuits between AV control unit and the junction between multifunction and iPod adapter.</p>
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Rearview Camera Connection Error • iPod Connection Error 	<p>Malfunction is detected in the AV communication circuits between camera control unit and the junction between AV control unit and multifunction switch.</p>	<p>AV communication circuits between camera control unit and the junction between AV control unit and multifunction switch.</p>
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Switches Connection Error • Rearview Camera Connection Error • iPod Connection Error 	<p>Malfunction is detected in the AV communication circuits between AV control unit and the junction between camera control unit and multifunction switch.</p>	<p>AV communication circuits between AV control unit and the junction between camera control unit and multifunction switch.</p>
<ul style="list-style-type: none"> • AV COMM CIRCUIT • iPod Connection Error • AVM Connection Error 	<p>Malfunction is detected in the AV communication circuits between around view monitor control unit and the junction between AV control unit and multifunction switch.</p>	<p>AV communication circuits between around view monitor control unit and the junction between AV control unit and multifunction switch.</p>
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Switches Connection Error • iPod Connection Error • AVM Connection Error 	<p>Malfunction is detected in the AV communication circuits between AV control unit and the junction between around view monitor control unit and multifunction switch.</p>	<p>AV communication circuits between AV control unit and the junction between around view monitor control unit and multifunction switch.</p>

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

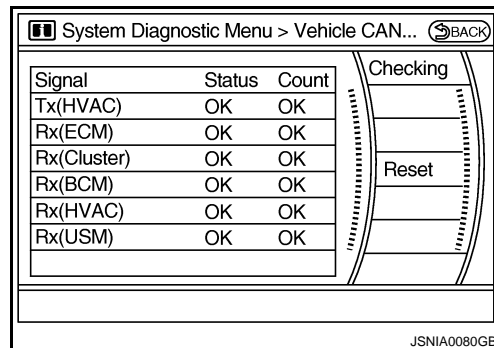
[BOSE AUDIO WITH NAVIGATION]

Error item	Detection logic	Possible malfunction factor/Action to take
<ul style="list-style-type: none"> AV COMM CIRCUIT Internal Communication Error Switches Connection Error Rearview Camera Connection Error iPod Connection Error 	Malfunction is detected in the AV communication circuits.	Check and repair the short circuit in AV communication circuits.
<ul style="list-style-type: none"> AV COMM CIRCUIT Internal Communication Error Switches Connection Error iPod Connection Error AVM Connection Error 	Malfunction is detected in the AV communication circuits.	Check and repair the short circuit in AV communication circuits.

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.

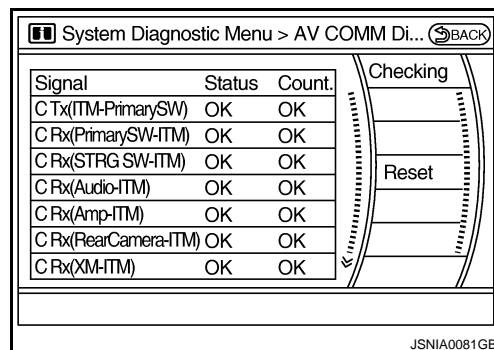
Items	Display (Current)	Malfunction counter (Past)
Tx(HVAC)	OK / UNKWN	OK / 0 – 39
Rx(ECM)	OK / UNKWN	OK / 0 – 39
Rx(Cluster)	OK / UNKWN	OK / 0 – 39
Rx(BCM)	OK / UNKWN	OK / 0 – 39
Rx(HVAC)	OK / UNKWN	OK / 0 – 39
Rx(USM)	OK / UNKWN	OK / 0 – 39



AV COMM Diagnosis

- Displays the communication status between AV control unit (master unit) and each unit.
- The error counter displays “OK” if any malfunction was not detected in the past and displays “0” if a malfunction is detected. It increases by 1 if the condition is normal at the next ignition switch ON cycle. The upper limit of the counter is 39.
- The error counter is erased if reset.

Items	Status (Current)	Counter (Past)
C Tx(ITM-PrimarySW)	OK / UNKWN	OK / 0 – 39
C Rx(PrimarySW-ITM)	OK / UNKWN	OK / 0 – 39
C Rx(STRG SW-ITM)	OK / UNKWN	OK / 0 – 39
C Rx(Audio-ITM)	OK / UNKWN	OK / 0 – 39
C Rx(Amp-ITM)	OK / UNKWN	OK / 0 – 39
C Rx(RearCamera-ITM)	OK / UNKWN	OK / 0 – 39
C Rx(XM-ITM)	OK / UNKWN	OK / 0 – 39
C Rx(iPod-ITM)	OK / UNKWN	OK / 0 – 39
C RX(AVM-ITM)	OK / UNKWN	OK / 0 – 39
C Rx(Amp-Audio)	—	—
C Rx(iPod-Audio)	OK / UNKWN	OK / 0 – 39
C Rx(Sonar-AVM)	OK / UNKWN	OK / 0 – 39
C Tx(Audio-ITM)	OK / UNKWN	OK / 0 – 39



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NOTE:

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

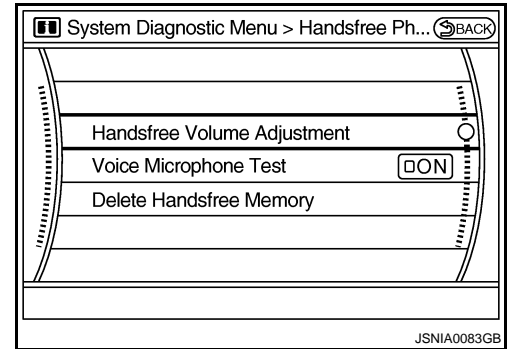
[BOSE AUDIO WITH NAVIGATION]

< FUNCTION DIAGNOSIS >

- Any units with “—” displayed have no history of vehicle connection.
- “Audio” and “Amp” indicate the same status because “Amp” indicates the status of the amplifier integrated in AV control unit.
- “STRG SW”, “Amp” and “XM” indicate the same status as “Audio”.

Hands-Free Phone

The hands-free phone reception volume adjustment, microphone and speaker test, and memory erase functions are also available.

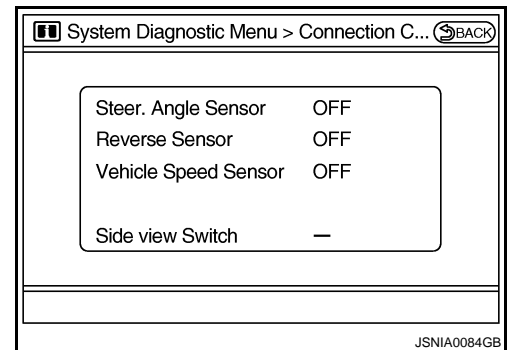


Camera Cont. (With Rear View Monitor)

The two functions of “Connection Confirmation” and “Adjust Offset of Rear View Camera” are available.

CONNECTION CONFIRMATION

Steering angle sensor, reverse signal and vehicle speed sensor can be inspected.



Diagnosis item	Display	Vehicle status
Steer. Angle Sensor	ON	When steering the vehicle with ignition switch ON (remains ON until connection mode is stopped when it is turned ON)
	OFF	<ul style="list-style-type: none"> • Ignition switch at ACC • No steering with ignition switch ON
	—	Malfunction detected in camera connection recognition signal
Reverse Sensor	ON	Selector lever is in “R” with ignition switch ON.
	OFF	<ul style="list-style-type: none"> • Ignition switch at ACC • Selector lever is in position other than “R” with ignition switch ON
	—	Malfunction detected in camera-connection recognition signal
Vehicle Speed Sensor	ON	Vehicle speed is more than 0 km/h (0 MPH) with ignition switch ON
	OFF	<ul style="list-style-type: none"> • Ignition switch at ACC • Vehicle speed is 0 km/h (0 MPH) with ignition switch ON
	—	Malfunction detected in camera connection recognition signal
Side view Switch	—	Not used

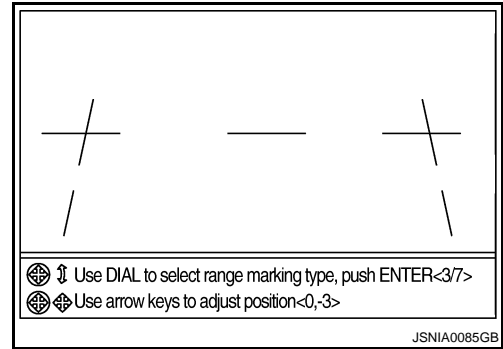
ADJUST OFFSET OF REAR VIEW CAMERA

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Use this mode to adjust the guide line display position of the rear view monitor if necessary after removing the rear view monitor camera.



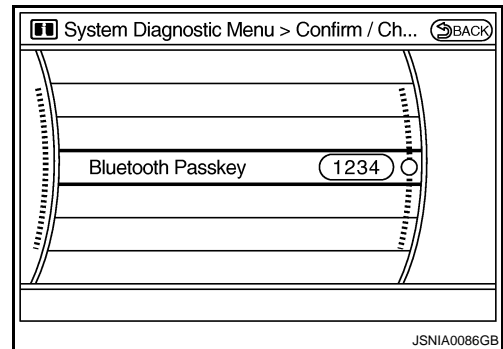
Camera Cont. (With Around View Monitor)

Refer to [AV-503, "Diagnosis Description"](#).

Bluetooth

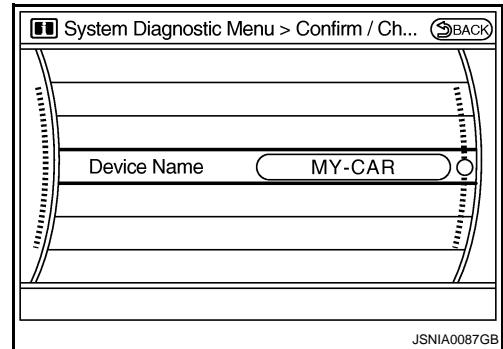
Confirm / Change Passkey

- The passkey of Bluetooth can be confirmed and changed.
- The passkey can be changed by four digits within 0 to 9.



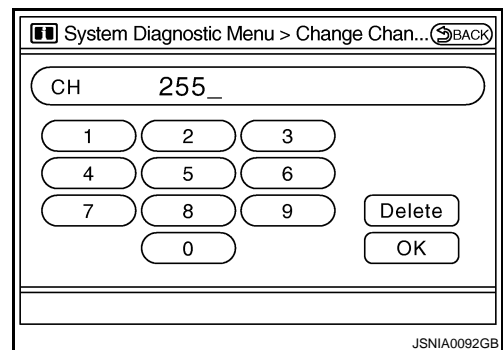
Confirm / Change Device Name

- The device name of Bluetooth can be confirmed and changed.
- The device name can be changed by sixteen digits within A to Z (small character can be used) and - (hyphen).



SAT

- Change Channel
- Any necessary channels required to receive traffic information from the satellite radio system can be set.



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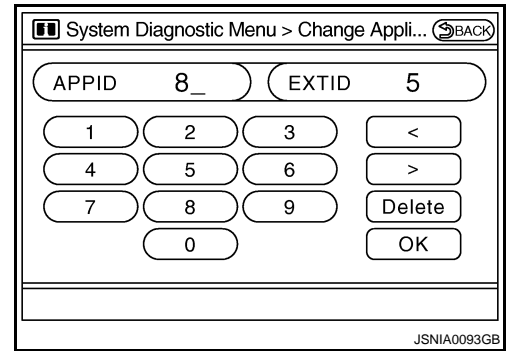
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DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

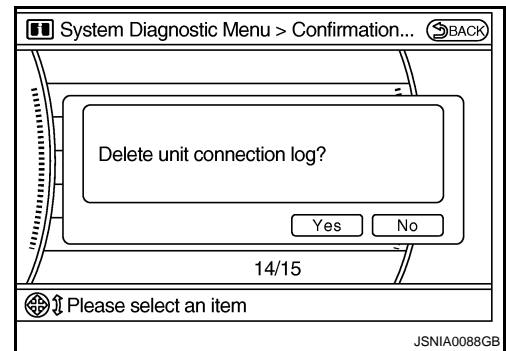
[BOSE AUDIO WITH NAVIGATION]

- Change Application ID
- Any application IDs required to receive traffic information from the satellite radio system can be set.



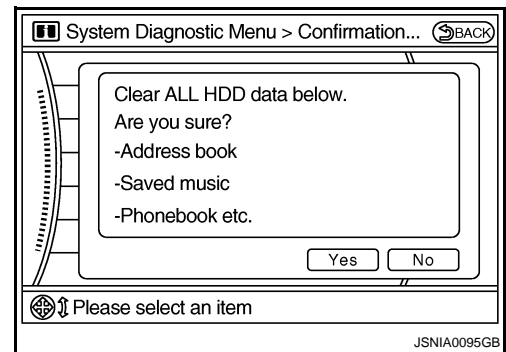
Delete Unit Connection Log

Deletes any unit connection records and error records from AV control unit memory. (Clear the records of the unit that has been removed.)



Initialize Settings

Deletes data stored in HDD.



CONSULT-III Function (MULTI AV)

INFOID:000000003465022

CONSULT-III FUNCTIONS

CONSULT-III performs the following functions via the communication with 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 AV control unit, 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 AV control unit can be performed.

AV COMMUNICATION

When "AV communication" of "CAN Diag Support Monitor" is selected, the following function will be performed.

AV communication	AV&NAVI C/U	Displays the communication status from AV control unit to each unit as well as the error counter.
	AUDIO	Displays AV control unit communication status and the error counter.

ECU IDENTIFICATION

The part number of AV control unit is displayed.

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BOSE AUDIO WITH NAVIGATION]

< FUNCTION DIAGNOSIS >

SELF DIAGNOSIS RESULT

- In CONSULT-III self-diagnosis, self-diagnosis results and error history are displayed simultaneously.
- The timing is displayed as "0" if any of the error codes [U1000], [U1010], [U1300] or [U1310] are detected. The counter increases by 1 if the condition is normal at the next ignition switch ON cycle.

Self-diagnosis results display item

Error item	Description	Possible malfunction factor/Action to take	
CAN COMM CIRCUIT[U1000]	CAN communication malfunction is detected.	Refer to AV-508, "Diagnosis Procedure" .	
CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.	Replace AV control unit.	
CONTROL UNIT (AV) [U1310]	AV communication circuit initial diagnosis malfunction is detected.		
Control Unit FLASH-ROM [U1200]	AV control unit malfunction is detected.		
Gyro NO CONN [U1201]			
CAN CONT [U1216]			
BLUETOOTH CONN [U1217]			
HDD CONN [U1218]			
HDD READ [U1219]			
XM SERIAL COMM [U1220]			
HDD WRITE [U121A]			
HDD COMM [U121B]			
HDD ACCESS [U121C]			
DSP CONN [U121D]			
DSP COMM [U121E]			
INTERNAL COMM [U121F]		When either one of the following items are detected: <ul style="list-style-type: none"> • Malfunction is detected in AV control unit supply or ground circuit. • AV control unit malfunction are detected. 	<ul style="list-style-type: none"> • AV control unit power supply and ground circuits. • When there is no malfunction, AV control unit is malfunctioning.
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 AV control unit if the malfunction occurs constantly.
GPS ROM [U1205]			
GPS RAM [U1206]			
GPS RTC [U1207]			
FRONT DISP CONN [U1243]	When either one of the following items are detected: <ul style="list-style-type: none"> • Display unit power supply or ground circuits malfunction are detected. • Malfunction is detected in the communication circuits between AV control unit and display unit. 	<ul style="list-style-type: none"> • Display unit power supply and ground circuits. • Communication circuits between AV control unit and AV display unit. 	
GPS ANTENNA CONN [U1244]	GPS antenna connection malfunction is detected.	GPS antenna.	
CAMERA CONT CONN [U1250]	Malfunction is detected in the camera connection recognition circuit between AV control unit and camera control unit.	Camera-connection recognition circuit between AV control unit and camera control unit.	
XM ANTENNA CONN [U1258]	Poor connection is detected in satellite radio antenna.	<ul style="list-style-type: none"> • Satellite radio antenna feeder. • Satellite radio antenna. 	
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • INTERNAL COMM [U121F] 	When either one of the following items are detected: <ul style="list-style-type: none"> • AV control unit power supply or ground circuits malfunction are detected. • AV control unit malfunction are detected. 	<ul style="list-style-type: none"> • AV control unit power supply and ground circuits. • When there is no malfunction, AV control unit is malfunctioning. 	

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DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] 	<p>WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR</p> <p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • Multifunction switch power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between multifunction switch and the junction between AV control unit and iPod adapter. 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuits. • AV communication circuits between multifunction switch and the junction between AV control unit and iPod adapter.
	<p>WITH REAR VIEW MONITOR</p> <p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • Multifunction switch power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between multifunction switch and the junction between AV control unit and camera control unit. 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuits. • AV communication circuits between multifunction switch and the junction between AV control unit and camera control unit.
	<p>WITH AROUND VIEW MONITOR</p> <p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • Multifunction switch power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between multifunction switch and the junction between AV control unit and around view monitor control unit. 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuits. • AV communication circuits between multifunction switch and the junction between AV control unit and around view monitor control unit.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • REAR CAMERA LAN CONN [U1252] 	<p>Camera control unit power supply or ground circuits malfunction is detected.</p>	<p>Camera control unit power supply and ground circuits.</p>
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • iPod CONN [U1254] 	<p>WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR</p> <p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • iPod adapter power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between iPod adapter and the junction between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> • iPod adapter power supply and ground circuits. • AV communication circuits between iPod adapter and the junction between AV control unit and multifunction switch.
	<p>WITH REAR VIEW MONITOR</p> <p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • iPod adapter power supply or ground circuits malfunction are detected. • Malfunction is detected in the AV communication circuits between camera control unit and iPod adapter. 	<ul style="list-style-type: none"> • iPod adapter power supply and ground circuits. • AV communication circuits between camera control unit and iPod adapter.
	<p>WITH AROUND VIEW MONITOR</p> <p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • iPod adapter power supply or ground circuits malfunction is detected. • Malfunction is detected in the AV communication circuits between around view monitor control unit and iPod adapter. 	<ul style="list-style-type: none"> • iPod adapter power supply and ground circuits. • AV communication circuits between around view monitor control unit and iPod adapter.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • AROUND CAMERA CONN [U125B] 	<p>Around view monitor control unit power supply or ground circuits malfunction is detected.</p>	<p>Around view monitor control unit power supply and ground circuits.</p>

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SONAR CONN [U125C] 	<p>When either one of the following items are detected:</p> <ul style="list-style-type: none"> • Sonar control unit power supply or ground circuit malfunction are detected. • Malfunction is detected in the AV communication circuits between sonar control unit and the junction between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> • Sonar control unit power supply and ground circuits. • AV communication circuits between sonar control unit and the junction between AV control unit and multifunction switch.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • IPod CONN [U1254] 	Malfunction is detected in the AV communication circuits between AV control unit and the junction between multifunction switch and iPod adapter.	AV control unit and the junction between multifunction switch and iPod adapter.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • REAR CAMERA LAN CONN [U1252] • IPod CONN [U1254] 	Malfunction is detected in the AV communication circuits between camera control unit and the junction between AV control unit and multifunction switch.	AV communication circuits between camera control unit and the junction between AV control unit and multifunction switch.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • REAR CAMERA LAN CONN [U1252] • IPod CONN [U1254] 	Malfunction is detected in the AV communication circuits between AV control unit and the junction between camera control unit and multifunction switch.	AV communication circuits between AV control unit and the junction between camera control unit and multifunction switch.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • IPod CONN [U1254] • AROUND CAMERA CONN [U125B] 	Malfunction is detected in the AV communication circuits between around view monitor control unit and the junction between AV control unit and multifunction switch.	AV communication circuits between around view monitor control unit and the junction between AV control unit and multifunction switch.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • IPod CONN [U1254] • AROUND CAMERA CONN [U125B] 	Malfunction is detected in the AV communication circuits between AV control unit and the junction between around view monitor control unit and multifunction switch.	AV communication circuits between AV control unit and the junction between around view monitor control unit and multifunction switch.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • INTERNAL COMM [U121F] • SWITCH CONN [U1240] • IPod CONN [U1254] 	Malfunction is detected in the AV communication circuits.	Check and repair the short circuit in AV communication circuits.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • INTERNAL COMM [U121F] • SWITCH CONN [U1240] • REAR CAMERA LAN CONN [U1252] • IPod CONN [U1254] 	Malfunction is detected in the AV communication circuits.	Check and repair the short circuit in AV communication circuits.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • INTERNAL COMM [U121F] • SWITCH CONN [U1240] • IPod CONN [U1254] • AROUND CAMERA CONN [U125B] 	Malfunction is detected in the AV communication circuits.	Check and repair the short circuit in AV communication circuits.

DATA MONITOR

ALL SIGNALS

- Displays the status of the following vehicle signals inputted into 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.	

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Display Item	Display	Vehicle status	Remarks
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 the ACC position	
REV SIG	On	Shift the selector lever to the "R" position	Changes in indication may be delayed. This is normal.
	Off	Shift the selector lever to a position other than the "R" position	

SELECTION FROM MENU

Allows the technician to select which vehicle signals should be displayed and displays the status of the selected vehicle signals.

Item to be selected	Description
VHCL SPD SIG	The same as when "ALL SIGNALS" is selected.
PKB SIG	
ILLUM SIG	
IGN SIG	
REV SIG	

DIAGNOSIS SYSTEM (AROUND VIEW MONITOR CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

DIAGNOSIS SYSTEM (AROUND VIEW MONITOR CONTROL UNIT)

Diagnosis Description

INFOID:000000003390932

The diagnosis function of around view monitor control unit is displayed when selecting "Camera Cont." of Confirmation/Adjustment mode in the multi AV system.

Around view monitor control unit diagnosis item

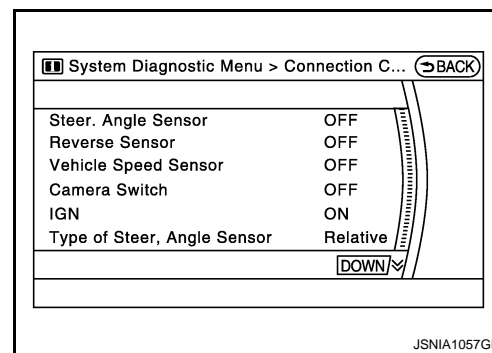
AV control unit Confirmation/Adjustment mode		Function	
Camera Cont.	Connection Confirmation	The status of signals input to around view monitor control unit can be checked.	
	Calibrating Camera Image	Rear Camera	Performs the calibration of rear camera.
		Pass-Side Camera	Performs the calibration of side camera LH.
		Front Camera	Performs the calibration of front camera.
		Dr-Side Camera	Performs the calibration of side camera.
		Initialize Camera Image Calibration*	The calibration can be initialized to NISSAN factory shipment condition.
	Correct Draw Line of Camera Image	Rear View	The position of rear view guiding line can be changed.
		Front-Side View	The position of Front-Side view guiding line can be changed.
		Front View	The position of front view guiding line can be changed.
	Fine Tuning of Birds-Eye View	<ul style="list-style-type: none"> The confirmation and adjustment of the difference between each camera can be performed. The system changes to the ZOOM function by the operation of shift and the ZOOM ratio of each camera can be changed. 	

CAUTION:

*: Never perform other operations for approximately 10 seconds after performing "Initialize Camera Image Calibration".

Connection Confirmation

The status of signals inputted to around view monitor control unit can be checked.



Connection Confirmation item list

Diagnosis item	Display	Description
Steer. Angle Sensor	ON/OFF	<ul style="list-style-type: none"> Input status of steering angle sensor is displayed by ON/OFF. When all of steering signals 1, 2, and 3 are input, it is turned ON. It remains ON until connection confirmation mode is stopped.
Reverse Sensor	ON/OFF	Input status of reverse signal inputted to around view monitor control unit is displayed by ON/OFF in real time.
Vehicle Speed Sensor	ON/OFF	<ul style="list-style-type: none"> Input status of vehicle speed signal inputted to around view monitor control unit is displayed by ON/OFF. When the vehicle speed signal is input, it is turned ON. It remains ON until connection confirmation mode is stopped.
Camera Switch	ON/OFF	<ul style="list-style-type: none"> The status of camera switch signal received via AV communication from AV control unit is displayed by ON/OFF. When the camera switch signal is received once, it is turned ON. It remains ON until connection confirmation mode is stopped.
IGN	ON/OFF	Input status of ignition signal inputted to around view monitor control unit is displayed by ON/OFF in real time.

DIAGNOSIS SYSTEM (AROUND VIEW MONITOR CONTROL UNIT)

< FUNCTION DIAGNOSIS >

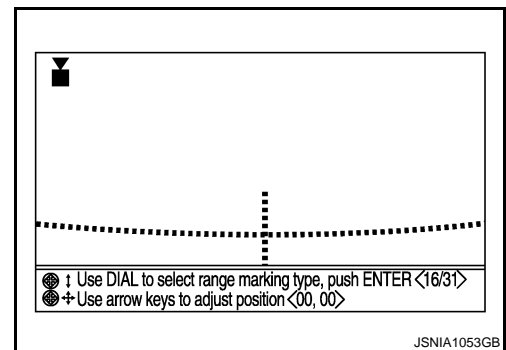
[BOSE AUDIO WITH NAVIGATION]

Diagnosis item	Display	Description
Type of Steer. Angle Sensor	Relative	The input type of steering angle sensor is displayed. ("Relative" is displayed on this model.)
Type of Steer. Gear ratio	1	The type of steering gear ratio is displayed. ("1" is displayed on this model.)
Left or Right Steer.	Left	The steering position is displayed. ("Left" is displayed on this model.)
Rear Camera Image Output signal	OK / NG	The input status of rear camera image signal is displayed by OK/NG in real time.
Rear Camera COMM Status	OK / NG	The communication status with rear camera is displayed by OK/NG in real time.
Rear Camera COMM Line	OK / NG	The status of communication line with rear camera is displayed by OK/NG in real time.
Front Camera Image Output signal	OK / NG	The input status of front camera image signal is displayed by OK/NG in real time.
Front Camera COMM Status	OK / NG	The communication status with front camera is displayed by OK/NG in real time.
Front Camera COMM Line	OK / NG	The status of communication line with front camera is displayed by OK/NG in real time.
Pass-Side Camera Image Output signal	OK / NG	The input status of side camera RH image signal is displayed by OK/NG in real time.
Pass-Side Camera COMM Status	OK / NG	The communication status with side camera RH is displayed by OK/NG in real time.
Pass-Side Camera COMM Line	OK / NG	The status of communication line with side camera RH is displayed by OK/NG in real time.
Dr-Side Camera Image Output signal	OK / NG	The input status of side camera LH image signal is displayed by OK/NG in real time.
Dr-Side Camera COMM Status	OK / NG	The communication status with side camera LH is displayed by OK/NG in real time.
Dr-Side Camera COMM Line	OK / NG	The status of communication line with side camera LH is displayed by OK/NG in real time.

Calibrating Camera Image

- Perform the calibration of camera image caused by the incorrect mounting position of each camera, etc. Always perform calibration after performing the following work.
 - When each camera or each camera mount (door mirror, front grille, etc.) is removed
 - When replacing around view monitor control unit
- When performing the calibration initialization, it can be set to the NISSAN factory shipment condition.

Refer to [AV-438. "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Special Repair Requirement"](#) for the calibration procedure.



Adjustment range

Rotating direction : 31 patterns (16 on the center)

Upper/lower direction : -99 - 99

Left/right direction : -99 - 99

Calibrating Camera Image item

Items	Description
Rear Camera	Performs the calibration of rear camera.
Pass-Side Camera	Performs the calibration of side camera RH.
Front Camera	Performs the calibration of front camera.
Dr-Side Camera	Performs the calibration of side camera LH.
Initialize Camera Image Calibration*	The calibration can be initialized to the factory shipment setting.

CAUTION:

*: Never perform other operations for approximately 10 seconds after performing "Initialize Camera Image Calibration".

DIAGNOSIS SYSTEM (AROUND VIEW MONITOR CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Correct Draw Line of Camera Image

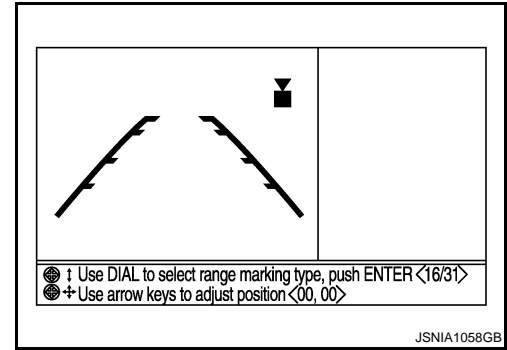
The display position of guiding lines when displayed on the rear view, front view, and front-side view can be changed.

Adjustment range

Rotating direction : 31 patterns

Upper/lower direction : -25 - 25

Left/right direction : -25 - 25



Correct Draw Line of Camera Image item

Items	Description
Rear View	The position of rear view guiding line can be changed.
Front-Side View	The position of Front-Side view guiding line can be changed.
Front View	The position of Front view guiding line can be changed.

Fine Tuning of Birds-Eye View

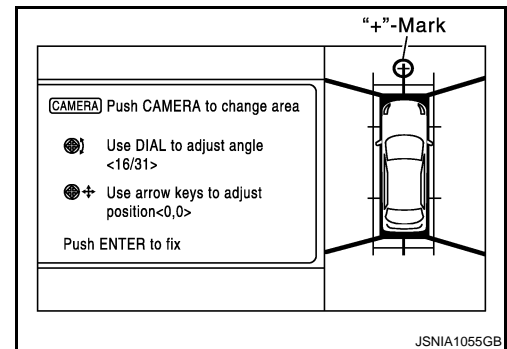
- The fine adjustment function of camera calibration can check and adjust the difference between each camera.
- Fine adjustments can be performed for each camera. Move the "+"-mark to select the camera by pressing the "CAMERA" switch.
- Perform the adjustment with the center dial and upper/lower/left/right switches.

CAUTION:

Operate the center dial slowly because the changing of the screen takes approximately 1 second.

NOTE:

- It can be initialized to the NISSAN factory shipment setting with "Initialize Camera Image Calibration" of "Calibrating Camera Image".
- The adjustment value is cancelled in this mode by performing "Initialize Camera Image Calibration".



Adjustment range

Rotating direction : 31 patterns (16 on the center)

Upper/lower direction : -99 - 99

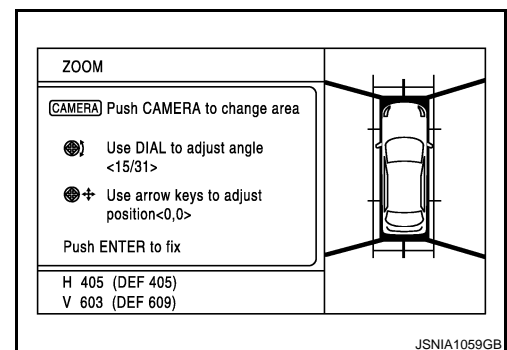
Left/right direction : -99 - 99

ZOOM function

- The ZOOM ratio of camera can be changed when calibrating the camera.
- It shifts to ZOOM function mode by shifting the selector lever to a position other than the "R" position → "R" position → other than "R" position in the "Fine Tuning of Birds-Eye View" mode.
- The changing of ZOOM ratio can be performed for each camera. Move the "+"-mark to select the camera by pressing "CAMERA" switch and press the left/right switch to change the ZOOM ratio.

NOTE:

- When the position is not correct in "Fine Tuning of Birds-Eye View" mode, use this "ZOOM" function to adjust it.
- If this function is used, always adjust the upper/lower/left/right position again on the "Fine Tuning of Birds-Eye View" screen.



DIAGNOSIS SYSTEM [SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)]

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

DIAGNOSIS SYSTEM [SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)]

CONSULT-III Function (SONAR)

INFOID:000000003160631

DESCRIPTION

CONSULT-III can display each diagnostic item using the diagnostic test modes shown as follows:

Test mode	Function
Ecu Identification	Sonar control unit part number can be read.
Self Diagnostic Result	Sonar control unit checks the conditions and displays memorized error.
Data monitor	Sonar control unit input/output data in real time.
Active Test	Gives a drive signal to a load to check the operation.
Work support	Changes setting of each function.

ECU IDENTIFICATION

Displays the part number of sonar control unit.

SELF-DIAGNOSTIC RESULTS

For details, refer to [AV-888, "DTC Index"](#).

DATA MONITOR

Monitor Item	Display	Description
SONAR OPE	On	Around view monitor is ON. (sonar system is ON)
	Off	Around view monitor is OFF. (sonar system is OFF)
BUZZER OUTPUT	On	Buzzer is output condition.
	Off	Buzzer is not output condition.
CR SEN [FL] CR SEN [FR] CR SEN [RL] CR SEN [RR]	ERROR	When a sensor is abnormal.
	LV.0	When a sensor is not detection.
	LV.2	The distance between the corner sensor and an obstacle is 60 cm (23.6 in) or more and less than 70 cm (27.5 in).
	LV.3	The distance between the corner sensor and an obstacle is 40 cm (15.7 in) or more and less than 60 cm (23.6 in).
	LV.4	The distance between corner sensor and an obstacle less than 40 cm (15.7 in).

ACTIVE TEST

Active test item	Function
BUZZER	This test is able to check buzzer (forward/backward) operation.
SONAR SENSOR	This test is able to check each sonar sensor operation.

WORK SUPPORT

Work support item	Function
CORNER SEN DISTANCE SET	Corner sensor warning buzzer distance is adjustable to 4 phases.

CORNER SEN DISTANCE SET

Corner sensor warning buzzer distance can be set to 4 phases as follows.

Warning item	FARTHER	FAR	NORMAL	NEAR
Second warning	70 – 80 cm (27.5 – 31.4 in)	60 – 70 cm (23.6 – 27.5 in)	50 – 60 cm (19.6 – 23.6 in)	40 – 50 cm (15.7 – 19.6 in)

DIAGNOSIS SYSTEM [SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)]

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Warning item	FARTHER	FAR	NORMAL	NEAR
Third warning	50 – 70 cm (19.6 – 27.5 in)	40 – 60 cm (15.7 – 23.6 in)	30 – 50 cm (11.8 – 19.6 in)	30 – 40 cm (11.8 – 15.7 in)
Fourth warning	Less than 50 cm (19.6 in)	Less than 40 cm (15.7 in)	Less than 30 cm (11.8 in)	Less than 30 cm (11.8 in)

The default of this model is "FAR".

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COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:000000003160632

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 independent). 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-27, "CAN Communication Signal Chart"](#).

DTC Logic

INFOID:000000003160633

DTC DETECTION LOGIC

DTC	Display contents of CONSULT-III	Diagnostic item is detected when ...	Probable malfunction location
U1000	CAN COMM CIRCUIT	When AV control unit is not transmitting or receiving CAN communication signal for 2 seconds or more.	CAN communication system

Diagnosis Procedure

INFOID:000000003160634

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-18, "Trouble Diagnosis Flow Chart"](#).
- NO >> Refer to GI section. Refer to [GI-38, "Intermittent Incident"](#).

U1010 CONTROL UNIT (CAN)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1010 CONTROL UNIT (CAN)

Description

INFOID:000000003160635

Initial diagnosis of AV control unit.

DTC Logic

INFOID:000000003160636

DTC DETECTION LOGIC

DTC	Display contents of CONSULT-III	Diagnostic item is detected when ...	Probable malfunction location
U1010	CONTROL UNIT (CAN)	CAN initial diagnosis malfunction is detected	AV control unit

Diagnosis Procedure

INFOID:000000003160637

1. REPLACE AV CONTROL UNIT

When DTC U1010 is detected, replace AV control unit.

>> INSPECTION END

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U1310 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1310 AV CONTROL UNIT

Description

INFOID:000000003160638

Replace the AV control unit if this DTC is displayed. Refer to [AV-903. "Removal and Installation"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by means of communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It inputs the automatic brightness ON/OFF signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000003160639

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1310	CONTROL UNIT (AV) [U1310]	An initial diagnosis error is detected in AV communication circuit.	Replace AV control unit

U1200 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1200 AV CONTROL UNIT

Description

INFOID:000000003513817

Replace the AV control unit if this DTC is displayed. Refer to [AV-903, "Removal and Installation"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by means of communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It inputs the automatic brightness ON/OFF signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000003160641

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1200	Cont Unit FLASH- ROM [U1200]	An internal malfunction is detected in AV control unit (FLASH-ROM).	Replace AV control unit

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U1201 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1201 AV CONTROL UNIT

Description

INFOID:000000003513818

Replace the AV control unit if this DTC is displayed. Refer to [AV-903. "Removal and Installation"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by means of communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It inputs the automatic brightness ON/OFF signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000003160643

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1201	GYRO NO CONN [U1201]	Internal malfunction of AV control unit (gyrocompass disconnection) is detected.	Replace AV control unit

U1216 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1216 AV CONTROL UNIT

Description

INFOID:000000003513819

Replace the AV control unit if this DTC is displayed. Refer to [AV-903, "Removal and Installation"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by means of communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It inputs the automatic brightness ON/OFF signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000003160645

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1216	CAN CONT [U1216]	Internal malfunction of AV control unit (CAN controller) is detected.	Replace AV control unit

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AV

U1217 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1217 AV CONTROL UNIT

Description

INFOID:000000003513820

Replace the AV control unit if this DTC is displayed. Refer to [AV-903. "Removal and Installation"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by means of communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It inputs the automatic brightness ON/OFF signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000003160647

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1217	BLUETOOTH MODULE CONN [U1217]	Internal malfunction of AV control unit (Bluetooth module connection malfunction) is detected.	Replace AV control unit

U1218 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1218 AV CONTROL UNIT

Description

INFOID:000000003513821

Replace the AV control unit if this DTC is displayed. Refer to [AV-903, "Removal and Installation"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by means of communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It inputs the automatic brightness ON/OFF signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000003160649

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1218	HDD-CONN [U1218]	Internal malfunction of AV control unit (HDD connection malfunction) is detected.	Replace AV control unit

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AV

U1219 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1219 AV CONTROL UNIT

Description

INFOID:000000003513822

Replace the AV control unit if this DTC is displayed. Refer to [AV-903. "Removal and Installation"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by means of communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It inputs the automatic brightness ON/OFF signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000003160651

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1219	HDD-READ [U1219]	Internal malfunction of AV control unit (HDD read malfunction) is detected.	Replace AV control unit

U1220 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1220 AV CONTROL UNIT

Description

INFOID:000000003513823

Replace the AV control unit if this DTC is displayed. Refer to [AV-903, "Removal and Installation"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">Integrates HDD (hard disk drive) allowing map data and music data to be stored.It is the master unit of the MULTI AV system, and it is connected to each control unit by means of communication. It operates each system according to communication signals from the AV control unit.The AV control unit includes the audio, hands-free phone, voice control, navigation, and vehicle information functions.It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.It inputs the automatic brightness ON/OFF signals that are required for the display dimming control.It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000003160653

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1220	XM SERIAL COMM [U1220]	Internal malfunction of AV control unit (satellite radio tuner communication error) is detected.	Replace AV control unit

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AV

U121A AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U121A AV CONTROL UNIT

Description

INFOID:000000003513824

Replace the AV control unit if this DTC is displayed. Refer to [AV-903, "Removal and Installation"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by means of communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It inputs the automatic brightness ON/OFF signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000003160655

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U121A	HDD-WRITE [U121A]	Internal malfunction of AV control unit (HDD write malfunction) is detected.	Replace AV control unit

U121B AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U121B AV CONTROL UNIT

Description

INFOID:000000003513825

Replace the AV control unit if this DTC is displayed. Refer to [AV-903, "Removal and Installation"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by means of communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It inputs the automatic brightness ON/OFF signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000003160657

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U121B	HDD-COMM [U121B]	Internal malfunction of AV control unit (HDD communication error) is detected.	Replace AV control unit

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AV

U121C AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U121C AV CONTROL UNIT

Description

INFOID:000000003513826

Replace the AV control unit if this DTC is displayed. Refer to [AV-903. "Removal and Installation"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by means of communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It inputs the automatic brightness ON/OFF signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000003160659

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U121C	HDD-ACCESS [U121C]	Internal malfunction of AV control unit (HDD access error) is detected.	Replace AV control unit

U121D AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U121D AV CONTROL UNIT

Description

INFOID:000000003513827

Replace the AV control unit if this DTC is displayed. Refer to [AV-903, "Removal and Installation"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">Integrates HDD (hard disk drive) allowing map data and music data to be stored.It is the master unit of the MULTI AV system, and it is connected to each control unit by means of communication. It operates each system according to communication signals from the AV control unit.The AV control unit includes the audio, hands-free phone, voice control, navigation, and vehicle information functions.It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.It inputs the automatic brightness ON/OFF signals that are required for the display dimming control.It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000003160661

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U121D	DSP CONN [U121D]	Internal malfunction of AV control unit (DSP connection error) is detected.	Replace AV control unit

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U121E AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U121E AV CONTROL UNIT

Description

INFOID:000000003513828

Replace the AV control unit if this DTC is displayed. Refer to [AV-903. "Removal and Installation"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by means of communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It inputs the automatic brightness ON/OFF signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000003160663

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U121E	DSP COMM [U121E]	Internal malfunction of AV control unit (DSP communication error) is detected.	Replace AV control unit

U121F AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U121F AV CONTROL UNIT

Description

INFOID:000000003513829

Replace the AV control unit if this DTC is displayed. Refer to [AV-903, "Removal and Installation"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">Integrates HDD (hard disk drive) allowing map data and music data to be stored.It is the master unit of the MULTI AV system, and it is connected to each control unit by means of communication. It operates each system according to communication signals from the AV control unit.The AV control unit includes the audio, hands-free phone, voice control, navigation, and vehicle information functions.It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.It inputs the automatic brightness ON/OFF signals that are required for the display dimming control.It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000003160665

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U121F	INTERNAL COMM [U121F]	Internal malfunction of AV control unit (internal communication error) is detected.	AV control unit power supply and ground circuit

Diagnosis Procedure

INFOID:000000003160666

1. CHECK AV CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check AV control unit power supply and ground circuit. Refer to [AV-544, "AV CONTROL UNIT : Diagnosis Procedure"](#).

Is inspection result normal?

- YES >> INSPECTION END
- NO >> Repair malfunctioning parts.

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AV

U1204 GPS

Description

INFOID:000000003160667

An intermittent error caused by strong radio interference may be detected unless any symptoms (GPS reception error, etc.) occur. Replace the AV control unit if the malfunction occurs constantly. Refer to [AV-903, "Removal and Installation"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> Integrates HDD (hard disk drive) allowing map data and music data to be stored. It is the master unit of the MULTI AV system, and it is connected to each control unit by means of communication. It operates each system according to communication signals from the AV control unit. The AV control unit includes the audio, hands-free phone, voice control, navigation, and vehicle information functions. It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function. It inputs the automatic brightness ON/OFF signals that are required for the display dimming control. It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000003160668

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1204	GPS CONN [U1204]	Internal malfunction of AV control unit (GPS malfunction) is detected.	Replace AV control unit

Diagnosis Procedure

INFOID:000000003160669

1. PERFORM THE SELF-DIAGNOSIS

- Delete the self-diagnosis results. Turn ignition switch OFF.
- Turn ignition switch ON. Perform the self-diagnosis again.
- Check that the DTC is detected again.

Is any DTC detected?

- YES >> Replace AV control unit.
 NO >> The intermittent malfunction caused by strong radio interference can be detected.

U1205 GPS

Description

INFOID:000000003513814

An intermittent error caused by strong radio interference may be detected unless any symptoms (GPS reception error, etc.) occur. Replace the AV control unit if the malfunction occurs constantly. Refer to [AV-903 "Removal and Installation"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> Integrates HDD (hard disk drive) allowing map data and music data to be stored. It is the master unit of the MULTI AV system, and it is connected to each control unit by means of communication. It operates each system according to communication signals from the AV control unit. The AV control unit includes the audio, hands-free phone, voice control, navigation, and vehicle information functions. It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function. It inputs the automatic brightness ON/OFF signals that are required for the display dimming control. It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000003160671

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1205	GPS ROM [U1205]	Internal malfunction of AV control unit (GPS malfunction) is detected.	Replace AV control unit

Diagnosis Procedure

INFOID:000000003160672

1. PERFORM THE SELF-DIAGNOSIS

- Delete the self-diagnosis results. Turn ignition switch OFF.
- Turn ignition switch ON. Perform the self-diagnosis again.
- Check that the DTC is detected again.

Is any DTC detected?

- YES >> Replace AV control unit.
 NO >> The intermittent malfunction caused by strong radio interference can be detected.

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U1206 GPS

Description

INFOID:000000003513815

An intermittent error caused by strong radio interference may be detected unless any symptoms (GPS reception error, etc.) occur. Replace the AV control unit if the malfunction occurs constantly. Refer to [AV-903, "Removal and Installation"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> Integrates HDD (hard disk drive) allowing map data and music data to be stored. It is the master unit of the MULTI AV system, and it is connected to each control unit by means of communication. It operates each system according to communication signals from the AV control unit. The AV control unit includes the audio, hands-free phone, voice control, navigation, and vehicle information functions. It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function. It inputs the automatic brightness ON/OFF signals that are required for the display dimming control. It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000003160674

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1206	GPS RAM [U1206]	Internal malfunction of AV control unit (GPS malfunction) is detected.	Replace AV control unit

Diagnosis Procedure

INFOID:000000003160675

1. PERFORM THE SELF-DIAGNOSIS

- Delete the self-diagnosis results. Turn ignition switch OFF.
- Turn ignition switch ON. Perform the self-diagnosis again.
- Check that the DTC is detected again.

Is any DTC detected?

- YES >> Replace AV control unit.
 NO >> The intermittent malfunction caused by strong radio interference can be detected.

U1207 GPS

Description

INFOID:000000003513816

An intermittent error caused by strong radio interference may be detected unless any symptoms (GPS reception error, etc.) occur. Replace the AV control unit if the malfunction occurs constantly. Refer to [AV-903](#), "[Removal and Installation](#)".

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> Integrates HDD (hard disk drive) allowing map data and music data to be stored. It is the master unit of the MULTI AV system, and it is connected to each control unit by means of communication. It operates each system according to communication signals from the AV control unit. The AV control unit includes the audio, hands-free phone, voice control, navigation, and vehicle information functions. It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function. It inputs the automatic brightness ON/OFF signals that are required for the display dimming control. It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000003160677

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1207	GPS RTC [U1207]	Internal malfunction of AV control unit (GPS malfunction) is detected.	Replace AV control unit

Diagnosis Procedure

INFOID:000000003160678

1. PERFORM THE SELF-DIAGNOSIS

- Delete the self-diagnosis results. Turn ignition switch OFF.
- Turn ignition switch ON. Perform the self-diagnosis again.
- Check that the DTC is detected again.

Is any DTC detected?

- YES >> Replace AV control unit.
 NO >> The intermittent malfunction caused by strong radio interference can be detected.

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U1243 DISPLAY UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1243 DISPLAY UNIT

Description

INFOID:000000003160679

Part name	Description
DISPLAY UNIT	<ul style="list-style-type: none"> • Display image is controlled by the serial communication from AV control unit. • RGB image signal is input from AV control unit (RGB, RGB area and RGB synchronizing). Auxiliary image signal is input from the auxiliary input jack. Camera image signal is input from the camera control unit. • Synchronizing signal (HP, VP) is output to AV control unit. • Touch panel function can be operated for each system by touching a display directly.

DTC Logic

INFOID:000000003160680

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1243	FRONT DISP CONN [U1243]	When either one of the following items is detected. <ul style="list-style-type: none"> • Display unit power supply and ground circuit malfunction is detected • Malfunction is detected in communication circuits between display unit and AV control unit 	<ul style="list-style-type: none"> • Display unit power supply and ground circuit • Communication circuits between display unit and AV control unit

Diagnosis Procedure

INFOID:000000003160681

1. CHECK DISPLAY UNIT POWER SUPPLY AND GROUND CIRCUITS

Check display unit power supply and ground circuits. Refer to [AV-544. "DISPLAY UNIT : Diagnosis Procedure"](#).

Is inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

2. CHECK CONTINUITY COMMUNICATION CIRCUITS

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

Display unit		AV control unit		Continuity
Connector	Terminals	Connector	Terminals	
M75	11	M88	70	Existed
	22		71	

4. Check continuity between display unit harness connector and ground.

Display unit		Ground	Continuity
Connector	Terminals		
M75	11		Not existed
	22		

Is inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK COMMUNICATION SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.

U1243 DISPLAY UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

3. Check signal between display unit harness connector and ground.

(+)		(-)	Signal
Display unit			
Connector	Terminal		
M75	11	Ground	

Is inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

4. CHECK COMMUNICATION SIGNAL

Check signal between display unit harness connector and ground.

(+)		(-)	Signal
Display unit			
Connector	Terminal		
M75	22	Ground	

Is inspection result normal?

YES >> INSPECTION END

NO >> Replace display unit.

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AV

U1244 GPS ANTENNA

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1244 GPS ANTENNA

Description

INFOID:000000003160682

Part name	Description
GPS ANTENNA	GPS signal is received and sent to AV control unit.

DTC Logic

INFOID:000000003160683

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1244	GPS ANTENNA CONN [U1244]	GPS antenna connection malfunction is detected	GPS antenna disconnection

Diagnosis Procedure

INFOID:000000003160684

1. GPS ANTENNA CHECK

Visually check GPS antenna and antenna feeder.

Is 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 terminal and ground.

(+)	(-)	Voltage (Approx.)
AV control unit		
Terminal		
110	Ground	5.0 V

Is inspection result normal?

YES >> INSPECTION END

NO >> Replace AV control unit.

U1250 CAMERA CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1250 CAMERA CONTROL UNIT

Description

INFOID:000000003160688

Part name	Description
CAMERA CONTROL UNIT	<ul style="list-style-type: none"> • Camera image signal is input from rear view camera, and camera image is indicated on the display. • Power (camera ON signal) is sent to rear view camera. • Controlled by AV communication sent from AV control unit. • AV control unit recognizes the presence of camera system with camera connection recognition signal.

DTC Logic

INFOID:000000003160689

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1250	CAMERA CONT. CONN [U1250]	A malfunction is detected in Camera-connection recognition signal circuit	Camera-connection recognition signal circuit

Diagnosis Procedure

INFOID:000000003160690

1. CHECK CAMERA-CONNECTION RECOGNITION SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector and camera control unit connector.
3. Check continuity between AV control unit harness connector and camera control unit harness connector.

AV control unit		Camera control unit		Continuity
Connector	Terminal	Connector	Terminal	
M87	40	B50	14	Existed

Is inspection result normal?

- YES >> GO TO 2.
 NO >> Repair harness or connector.

2. CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector and ground.

(+) AV control unit		(-)	Voltage (Approx.)
Connector	Terminal		
M87	40	Ground	5.0 V

Is inspection result normal?

- YES >> Replace camera control unit.
 NO >> Replace AV control unit.

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AV

U1258 SATELLITE RADIO ANTENNA

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1258 SATELLITE RADIO ANTENNA

Description

INFOID:000000003160691

Part name	Description
SATELLITE RADIO ANTENNA	Satellite radio signal is received and sent to AV control unit.

DTC Logic

INFOID:000000003160692

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1258	XM ANTENNA CONN [U1258]	Satellite radio antenna connection malfunction is detected	Satellite radio antenna disconnection

Diagnosis Procedure

INFOID:000000003160693

1. SATELLITE RADIO ANTENNA CHECK

Visually check satellite radio antenna and antenna feeder.

Is 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		
108	Ground	5.0 V

Is inspection result normal?

- YES >> INSPECTION END
- NO >> Replace AV control unit.

U1300 AV COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1300 AV COMM CIRCUIT

WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR

WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR : Description

INFOID:000000003160694

U1300 is indicated when malfunction occurs in communication signal of multi AV system. Indicated simultaneously, without fail, with the malfunction of control units connected to AV control unit with communication line. Determine the possible malfunction cause from the table below.

Self-diagnosis results display item

DTC	Display contents of CONSULT-III	Description	Possible malfunction factor/Action to take
U1300 U121F	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] INTERNAL COMM [U121F] 	When either one of the following items is detected. <ul style="list-style-type: none"> AV control unit power supply and ground circuits malfunction is detected. AV control unit malfunction is detected. 	<ul style="list-style-type: none"> AV control unit power supply and ground circuits. When there is no malfunction, AV control unit is malfunctioning.
U1300 U1240	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] SWITCH CONN [U1240] 	When either one of the following items is detected. <ul style="list-style-type: none"> Multifunction switch power supply and ground circuits malfunction is detected. Malfunction is detected in AV communication circuits between multifunction switch and the junction of AV control unit and iPod adapter. 	<ul style="list-style-type: none"> Multifunction switch power supply and ground circuits. AV communication circuits between multifunction switch and the junction of AV control unit and iPod adapter.
U1300 U1254	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] IPOD CONN [U1254] 	When either one of the following items is detected. <ul style="list-style-type: none"> iPod adapter power supply and ground circuits malfunction is detected. Malfunction is detected in AV communication circuits between iPod adapter and the junction of AV control unit and multifunction switch. 	<ul style="list-style-type: none"> iPod adapter power supply and ground circuits. AV communication circuits between iPod adapter and the junction of AV control unit and multifunction switch.
U1300 U1240 U1254	<ul style="list-style-type: none"> AV COMM [U1300] SWITCH CONN [U1240] IPOD CONN [U1254] 	Malfunction is detected in AV communication circuits between AV control unit and the junction of multifunction switch and iPod adapter.	AV communication circuits between AV control unit and the junction of multifunction switch and iPod adapter.
U1300 U121F U1240 U1254	<ul style="list-style-type: none"> AV COMM [U1300] INTERNAL COMM [U121F] SWITCH CONN [U1240] IPOD CONN [U1254] 	Malfunction is detected in AV communication circuits.	Check and repair the short circuit in AV communication circuits.

WITH REAR VIEW MONITOR

WITH REAR VIEW MONITOR : Description

INFOID:000000003415758

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

U1300 AV COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

DTC	Display contents of CONSULT-III	Description	Possible malfunction factor/Action to take
U1300 U121F	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • INTERNAL COMM [U121F] 	When either one of the following items is detected. <ul style="list-style-type: none"> • AV control unit power supply and ground circuits malfunction is detected. • AV control unit malfunction is detected. 	<ul style="list-style-type: none"> • AV control unit power supply and ground circuits. • When there is no malfunction, AV control unit is malfunctioning.
U1300 U1240	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] 	When either one of the following items is detected. <ul style="list-style-type: none"> • Multifunction switch power supply and ground circuits malfunction is detected. • Malfunction is detected in AV communication circuits between multifunction switch and the junction of AV control unit and camera control unit. 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuits. • AV communication circuits between multifunction switch and the junction of AV control unit and camera control unit.
U1300 U1254	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • IPOD CONN [U1254] 	When either one of the following items is detected. <ul style="list-style-type: none"> • Malfunction is detected in iPod adapter power supply and ground circuits. • Malfunction is detected in AV communication circuits between rear view camera control unit and iPod adapter. 	<ul style="list-style-type: none"> • iPod adapter power supply and ground circuits. • AV communication circuits between rear view camera control unit and iPod adapter.
U1300 U1252	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • REAR CAMERA LAN CONN [U1252] 	Camera control unit power supply and ground circuits malfunction is detected.	Camera control unit power supply and ground circuits.
U1300 U1252 U1254	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • REAR CAMERA LAN CONN [U1252] • IPOD CONN [U1254] 	Malfunction is detected in AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.	AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.
U1300 U1240 U1252 U1254	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • REAR CAMERA LAN CONN [U1252] • IPOD CONN [U1254] 	Malfunction is detected in AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.	AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.
U1300 U121F U1240 U1252 U1254	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • INTERNAL COMM [U121F] • SWITCH CONN [U1240] • REAR CAMERA LAN CONN [U1252] • IPOD CONN [U1254] 	Malfunction is detected in AV communication circuits.	Check and repair the short circuit in AV communication circuits.

WITH AROUND VIEW MONITOR

WITH AROUND VIEW MONITOR : Description

INFOID:000000003415759

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

U1300 AV COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

DTC	Display contents of CONSULT-III	Description	Possible malfunction factor/Action to take
U1300 U121F	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] INTERNAL COMM [U121F] 	<p>When either one of the following items is detected.</p> <ul style="list-style-type: none"> AV control unit power supply and ground circuits malfunction is detected. AV control unit malfunction is detected. 	<ul style="list-style-type: none"> AV control unit power supply and ground circuits. When there is no malfunction, AV control unit is malfunctioning.
U1300 U1240	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] SWITCH CONN [U1240] 	<p>When either one of the following items is detected.</p> <ul style="list-style-type: none"> Multifunction switch power supply and ground circuits malfunction is detected. Malfunction detected in AV communication circuits between multifunction switch and the junction of AV control unit and around view monitor control unit. 	<ul style="list-style-type: none"> Multifunction switch power supply and ground circuits. AV communication circuits between multifunction switch and the junction of AV control unit and around view monitor control unit.
U1300 U1254	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] IPOD CONN [U1254] 	<p>When either one of the following items is detected.</p> <ul style="list-style-type: none"> Malfunction is detected in iPod adapter power supply and ground circuits. Malfunction is detected in AV communication circuits between around view monitor control unit and iPod adapter. 	<ul style="list-style-type: none"> iPod adapter power supply and ground circuits. AV communication circuits between around view monitor control unit and iPod adapter.
U1300 U125B	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] AROUND CAMERA CONN [U125B] 	<p>Around view monitor control unit power supply and ground circuits malfunction is detected.</p>	<p>Around view monitor control unit power supply and ground circuits.</p>
U1300 U125C	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] SONAR CONN [U125C] 	<p>When either one of the following items is detected.</p> <ul style="list-style-type: none"> Sonar control unit power supply and ground circuits malfunction is detected. Malfunction is detected in AV communication circuits between sonar control unit and the junction of AV control unit and multifunction switch. 	<ul style="list-style-type: none"> Sonar control unit power supply and ground circuits. AV communication circuits between sonar control unit and the junction of AV control unit and multifunction switch.
U1300 U1254 U125B	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] IPOD CONN [U1254] AROUND CAMERA CONN [U125B] 	<p>Malfunction is detected in AV communication circuits between around view monitor control unit and the junction of AV control unit and multifunction switch.</p>	<p>AV communication circuits between around view monitor control unit and the junction of AV control unit and multifunction switch.</p>
U1300 U1240 U1254 U125B	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] SWITCH CONN [U1240] IPOD CONN [U1254] AROUND CAMERA CONN [U125B] 	<p>Malfunction is detected in AV communication circuits between AV control unit and the junction of around view monitor control unit and multifunction switch.</p>	<p>AV communication circuits between AV control unit and the junction of around view monitor control unit and multifunction switch.</p>
U1300 U121F U1240 U1254 U125B	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] INTERNAL COMM [U121F] SWITCH CONN [U1240] IPOD CONN [U1254] AROUND CAMERA CONN [U125B] 	<p>Malfunction is detected in AV communication circuits.</p>	<p>Check and repair the short circuit in AV communication circuits.</p>

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AV

B2700 CORNER SENSOR [FL]

[BOSE AUDIO WITH NAVIGATION]

< COMPONENT DIAGNOSIS >

B2700 CORNER SENSOR [FL]

Description

INFOID:000000003510909

Component	Description
CORNER SENSOR	The obstacle distance is detected. The signal is transmitted to the sonar control unit.

DTC Logic

INFOID:000000003510910

DTC DETECTION LOGIC

DTC No.	CONSULT-III indication	DTC detection condition	Troubleshooting
B2700	CORNER SENSOR [FL] [B2700]	Corner sensor front left is malfunctioning.	Replace corner sensor front LH.

B2701 SENSOR HARNESS OPEN [CR-FL]

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

B2701 SENSOR HARNESS OPEN [CR-FL]

Description

INFOID:000000003513807

Component	Description
CORNER SENSOR	The obstacle distance is detected. The signal is transmitted to the sonar control unit.

DTC Logic

INFOID:000000003510912

DTC DETECTION LOGIC

DTC No.	CONSULT-III indication	DTC detection condition	Troubleshooting
B2701	SENSOR HARNESS OPEN [CR-FL] [B2701]	Corner sensor front LH harness circuit is open.	Check corner sensor front LH circuit.

Diagnosis Procedure

INFOID:000000003510913

1. CHECK HARNESS CORNER SENSOR FRONT LH SIGNAL CIRCUIT

- Turn ignition switch OFF.
- Disconnect sonar control unit connector and corner sensor connector.
- Check continuity between sonar control unit harness connector and corner sensor (FL) harness connector.

Sonar control unit		Corner sensor (FL)		Continuity
Connector	Terminal	Connector	Terminal	
M47	3	E63	1	Existed

- Check continuity between sonar control unit harness connector and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M47	3		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK HARNESS CORNER SENSOR FRONT LH GROUND CIRCUIT

Check continuity between sonar control unit harness connector and corner sensor (FL) harness connector.

Sonar control unit		Corner sensor (FL)		Continuity
Connector	Terminal	Connector	Terminal	
M47	12	E63	2	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

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B2702 CORNER SENSOR [FR]

[BOSE AUDIO WITH NAVIGATION]

< COMPONENT DIAGNOSIS >

B2702 CORNER SENSOR [FR]

Description

INFOID:000000003513808

Component	Description
CORNER SENSOR	The obstacle distance is detected. The signal is transmitted to the sonar control unit.

DTC Logic

INFOID:000000003510915

DTC DETECTION LOGIC

DTC No.	CONSULT-III indication	DTC detection condition	Troubleshooting
B2702	CORNER SENSOR [FR] [B2702]	Corner sensor front right is malfunctioning.	Replace corner sensor front RH.

B2703 SENSOR HARNESS OPEN [CR-FR]

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

B2703 SENSOR HARNESS OPEN [CR-FR]

Description

INFOID:000000003513809

Component	Description
CORNER SENSOR	The obstacle distance is detected. The signal is transmitted to the sonar control unit.

DTC Logic

INFOID:000000003510917

DTC DETECTION LOGIC

DTC No.	CONSULT-III indication	DTC detection condition	Troubleshooting
B2703	SENSOR HARNESS OPEN [CR-FR] [B2703]	Corner sensor front right harness circuit is open.	Check corner sensor front RH circuit.

Diagnosis Procedure

INFOID:000000003510918

1. CHECK HARNESS CORNER SENSOR FRONT RH SIGNAL CIRCUIT

- Turn ignition switch OFF.
- Disconnect sonar control unit connector and corner sensor connector.
- Check continuity between sonar control unit harness connector and corner sensor (FR) harness connector.

Sonar control unit		Corner sensor (FR)		Continuity
Connector	Terminal	Connector	Terminal	
M47	4	E152	1	Existed

- Check continuity between sonar control unit harness connector and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M47	4		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK HARNESS CORNER SENSOR FRONT RH GROUND CIRCUIT

Check continuity between sonar control unit harness connector and corner sensor (FR) harness connector.

Sonar control unit		Corner sensor (FR)		Continuity
Connector	Terminal	Connector	Terminal	
M47	12	E152	2	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

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B2704 CORNER SENSOR [RL]

[BOSE AUDIO WITH NAVIGATION]

< COMPONENT DIAGNOSIS >

B2704 CORNER SENSOR [RL]

Description

INFOID:000000003513810

Component	Description
CORNER SENSOR	The obstacle distance is detected. The signal is transmitted to the sonar control unit.

DTC Logic

INFOID:000000003510920

DTC DETECTION LOGIC

DTC No.	CONSULT-III indication	DTC detection condition	Troubleshooting
B2704	CORNER SENSOR [RL] [B2704]	Corner sensor rear left is malfunctioning.	Replace corner sensor rear LH.

B2705 SENSOR HARNESS OPEN [CR-RL]

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

B2705 SENSOR HARNESS OPEN [CR-RL]

Description

INFOID:000000003513811

Component	Description
CORNER SENSOR	The obstacle distance is detected. The signal is transmitted to the sonar control unit.

DTC Logic

INFOID:000000003510922

DTC DETECTION LOGIC

DTC No.	CONSULT-III indication	DTC detection condition	Troubleshooting
B2705	SENSOR HARNESS OPEN [CR-RL] [B2705]	Corner sensor rear left harness circuit is open.	Check corner sensor rear LH circuit.

Diagnosis Procedure

INFOID:000000003510923

1. CHECK HARNESS CORNER SENSOR REAR LH SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and corner sensor connector.
3. Check continuity between sonar control unit harness connector and corner sensor (RL) harness connector.

Sonar control unit		Corner sensor (RL)		Continuity
Connector	Terminal	Connector	Terminal	
M47	5	B259	1	Existed

4. Check continuity between sonar control unit harness connector and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M47	5		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK HARNESS CORNER SENSOR REAR LH GROUND CIRCUIT

Check continuity between sonar control unit harness connector and corner sensor (RL) harness connector.

Sonar control unit		Corner sensor (RL)		Continuity
Connector	Terminal	Connector	Terminal	
M47	12	B259	2	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

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B2706 CORNER SENSOR [RR]

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

B2706 CORNER SENSOR [RR]

Description

INFOID:000000003513812

Component	Description
CORNER SENSOR	The obstacle distance is detected. The signal is transmitted to the sonar control unit.

DTC Logic

INFOID:000000003510925

DTC DETECTION LOGIC

DTC No.	CONSULT-III indication	DTC detection condition	Troubleshooting
B2706	CORNER SENSOR [RR] [B2706]	Corner sensor rear right is malfunctioning.	Replace corner sensor rear RH.

B2707 SENSOR HARNESS OPEN [CR-RR]

[BOSE AUDIO WITH NAVIGATION]

< COMPONENT DIAGNOSIS >

B2707 SENSOR HARNESS OPEN [CR-RR]

Description

INFOID:000000003513813

Component	Description
CORNER SENSOR	The obstacle distance is detected. The signal is transmitted to the sonar control unit.

DTC Logic

INFOID:000000003510927

DTC DETECTION LOGIC

DTC No.	CONSULT-III indication	DTC detection condition	Troubleshooting
B2707	SENSOR HARNESS OPEN [CR-RR] [B2707]	Corner sensor rear right harness circuit is open.	Check corner sensor rear RH circuit.

Diagnosis Procedure

INFOID:000000003510928

1. CHECK HARNESS CORNER SENSOR REAR RH SIGNAL CIRCUIT

- Turn ignition switch OFF.
- Disconnect sonar control unit connector and corner sensor connector.
- Check continuity between sonar control unit harness connector and corner sensor (RR) harness connector.

Sonar control unit		Corner sensor (RR)		Continuity
Connector	Terminal	Connector	Terminal	
M47	6	B256	1	Existed

- Check continuity between sonar control unit harness connector and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M47	6		Not existed

Is the inspection result normal?

- YES >> GO TO 2.
 NO >> Repair harness or connector.

2. CHECK HARNESS CORNER SENSOR REAR RH GROUND CIRCUIT

Check continuity between sonar control unit harness connector and corner sensor (RR) harness connector.

Sonar control unit		Corner sensor (RR)		Continuity
Connector	Terminal	Connector	Terminal	
M47	12	B256	2	Existed

Is the inspection result normal?

- YES >> INSPECTION END
 NO >> Repair harness or connector.

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

POWER SUPPLY AND GROUND CIRCUIT

AV CONTROL UNIT

AV CONTROL UNIT : Diagnosis Procedure

INFOID:000000003160695

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	34
Ignition switch ACC or ON	19
Ignition switch ON or START	3

Is inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between AV control unit harness connectors and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	M80	19	OFF	Battery voltage
	M87	22		
		24		
ACC power supply	M80	7	ACC	Battery voltage
	M87	25		
Ignition signal	M87	35	ON	Battery voltage

Is inspection result normal?

YES >> GO TO 3.

NO >> Check harness between AV control unit and fuse.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect AV control unit connectors.
3. Check continuity between AV control unit harness connectors and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	M80	20	OFF	Existed
	M87	21		
		23		

Is inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

DISPLAY UNIT

DISPLAY UNIT : Diagnosis Procedure

INFOID:000000003160696

1.CHECK FUSE

Check for blown fuses.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Power source	Fuse No.
Battery	34
Ignition switch ACC or ON	19

Is inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between Display unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	M75	2	OFF	Battery voltage
ACC power supply	M75	3	ACC	Battery voltage

Is inspection result normal?

YES >> GO TO 3.

NO >> Check harness between Display unit and fuse.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Display unit connector.
3. Check continuity between Display unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	M75	1	OFF	Existed
		13		

Is inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

MULTIFUNCTION SWITCH

MULTIFUNCTION SWITCH : Diagnosis Procedure

INFOID:000000003646520

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Ignition switch ACC or ON	19

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between multifunction switch harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
ACC power supply	M72	3	ACC	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between multifunction switch and fuse.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect multifunction switch connector.

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

3. Check continuity between multifunction switch harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	M72	1	OFF	Existed

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Repair harness or connector.

BOSE AMP.

BOSE AMP. : Diagnosis Procedure

INFOID:000000003652834

1.CHECK FUSE

Check for blown fuse.

Power source	Fuse No.
Battery	8

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between BOSE amp. harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	B42	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.

iPod ADAPTER

iPod ADAPTER : Diagnosis Procedure

INFOID:000000003652835

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.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between iPod adapter harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	M111	5	OFF	Battery voltage
ACC power supply	M111	3	ACC	Battery voltage

Is the inspection result normal?

YES >> INSPECTION END

NO >> Check harness between iPod adapter and fuse.

CAMERA CONTROL UNIT

CAMERA CONTROL UNIT : Diagnosis Procedure

INFOID:000000003160698

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	34
Ignition switch ACC or ON	19

Is inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between camera control unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	B50	32	OFF	Battery voltage
ACC power supply	B50	30	ACC	Battery voltage

Is inspection result normal?

YES >> GO TO 3.

NO >> Check harness between camera control unit and fuse.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector.
3. Check continuity between camera control unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B50	31	OFF	Existed

Is inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

AROUND VIEW MONITOR CONTROL UNIT

AROUND VIEW MONITOR CONTROL UNIT : Diagnosis Procedure

INFOID:000000003160700

1.CHECK FUSE

Check for blown fuses.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Power source	Fuse No.
Battery	34
Ignition switch ACC	19
Ignition switch ON	3

Is inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUITS

Check voltage between around view monitor control unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	B46	2	OFF	Battery voltage
ACC power supply	B46	4	ACC	Battery voltage
Ignition power supply	B46	3	ON	Battery voltage

Is inspection result normal?

YES >> GO TO 3.

NO >> Check harness between around view monitor control unit and fuse.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector.
3. Check continuity between around view monitor control unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B46	1	OFF	Existed

Is inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR) : Diagnosis Procedure

INFOID:000000003510942

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Ignition switch ACC or ON	19

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between sonar control unit harness connector and ground.

Sonar control unit		Ground	Voltage (Approx.)
Connector	Terminal		
M47	13		Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

POWER SUPPLY AND GROUND CIRCUIT

[BOSE AUDIO WITH NAVIGATION]

< COMPONENT DIAGNOSIS >

NO >> Repair or replace sonar control unit power supply harness.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector.
3. Check continuity between sonar control unit harness connector and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M47	24		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace sonar control unit ground harness.

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AV

RGB (R: RED) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

RGB (R: RED) SIGNAL CIRCUIT

Description

INFOID:000000003160701

Transmit the image displayed with AV control unit with RGB signal to the display unit.

Diagnosis Procedure

INFOID:000000003160702

1. CHECK CONTINUITY RGB (R: RED) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

Display unit		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M75	17	M88	61	Existed

4. Check continuity between display unit harness connector and ground.

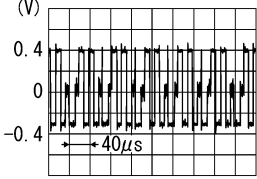
Display unit		Ground	Continuity
Connector	Terminal		
M75	17		Not existed

Is inspection result normal?

- YES >> GO TO 2.
 NO >> Repair harness or connector.

2. CHECK RGB (R: RED) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

(+)		(-)	Condition	Reference value
Display unit				
Connector	Terminal			
M75	17	Ground	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 <p>(V)</p> <p>0.4</p> <p>0</p> <p>-0.4</p> <p>40µs</p> <p>SKIB2238J</p>

Is inspection result normal?

- YES >> Replace display unit.
 NO >> Replace AV control unit.

RGB (G: GREEN) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

RGB (G: GREEN) SIGNAL CIRCUIT

Description

INFOID:000000003513830

Transmit the image displayed with AV control unit with RGB signal to the display unit.

Diagnosis Procedure

INFOID:000000003160704

1. CHECK CONTINUITY RGB (G: GREEN) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

Display unit		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M75	6	M88	62	Existed

4. Check continuity between display unit harness connector and ground.

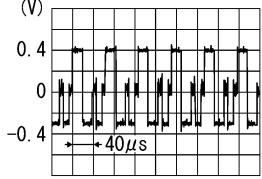
Display unit		Ground	Continuity
Connector	Terminal		
M75	6		Not existed

Is inspection result normal?

- YES >> GO TO 2.
 NO >> Repair harness or connector.

2. CHECK RGB (G: GREEN) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

(+)		(-)	Condition	Reference value
Display unit				
Connector	Terminal			
M75	6	Ground	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 <p>(V)</p> <p>0.4</p> <p>0</p> <p>-0.4</p> <p>40µs</p> <p>SKIB2236J</p>

Is inspection result normal?

- YES >> Replace display unit.
 NO >> Replace AV control unit.

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RGB (B: BLUE) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

RGB (B: BLUE) SIGNAL CIRCUIT

Description

INFOID:000000003513831

Transmit the image displayed with AV control unit with RGB signal to the display unit.

Diagnosis Procedure

INFOID:000000003160706

1. CHECK CONTINUITY RGB (B: BLUE) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

Display unit		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M75	18	M88	63	Existed

4. Check continuity between display unit harness connector and ground.

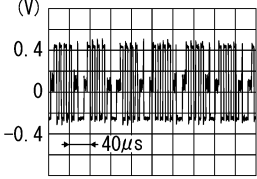
Display unit		Ground	Continuity
Connector	Terminal		
M75	18		Not existed

Is inspection result normal?

- YES >> GO TO 2.
 NO >> Repair harness or connector.

2. CHECK RGB (B: BLUE) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

(+)		(-)	Condition	Reference value
Display unit				
Connector	Terminal			
M75	18	Ground	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 <p>(V)</p> <p>0.4</p> <p>0</p> <p>-0.4</p> <p>40µs</p> <p>SKIB2237J</p>

Is inspection result normal?

- YES >> Replace display unit.
 NO >> Replace AV control unit.

RGB SYNCHRONIZING SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

RGB SYNCHRONIZING SIGNAL CIRCUIT

Description

INFOID:000000003160707

Transmit the RGB synchronizing signal to the display unit so as to synchronize the RGB image displayed with AV control unit.

Diagnosis Procedure

INFOID:000000003160708

1. CHECK CONTINUITY RGB SYNCHRONIZING SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

Display unit		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M75	19	M88	65	Existed

4. Check continuity between display unit harness connector and ground.

Display unit		Ground	Continuity
Connector	Terminal		
M75	19		Not existed

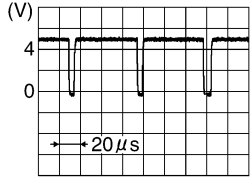
Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK RGB SYNCHRONIZING SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

(+)		(-)	Condition	Reference value
Display unit				
Connector	Terminal			
M75	19	Ground	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	

Is inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

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RGB AREA (YS) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

RGB AREA (YS) SIGNAL CIRCUIT

Description

INFOID:000000003160709

Transmits the display area of RGB image displayed by AV control unit with RGB area (YS) signal to display unit.

Diagnosis Procedure

INFOID:000000003160710

1. CHECK CONTINUITY RGB AREA (YS) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

Display unit		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M75	9	M88	67	Existed

4. Check continuity between display unit harness connector and ground.

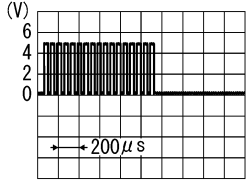
Display unit		Ground	Continuity
Connector	Terminal		
M75	9		Not existed

Is inspection result normal?

- YES >> GO TO 2.
 NO >> Repair harness or connector.

2. CHECK RGB SYNCHRONIZING SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

(+)		(-)	Condition	Reference value (Approx.)
Connector	Terminal			
M75	9	Ground	At RGB image displayed	5.0 V
			At AUX image displayed	 <p style="text-align: right; font-size: small;">PKIB4948J</p>

Is inspection result normal?

- YES >> Replace display unit.
 NO >> Replace AV control unit.

HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

Description

INFOID:000000003160711

In composite image (AUX image, camera image), transmit the vertical synchronizing (VP) signal and horizontal synchronizing (HP) signal from display unit to AV control unit so as to synchronize the RGB images displayed with AV control unit such as the image quality adjusting menu, etc.

Diagnosis Procedure

INFOID:000000003160712

1. CHECK CONTINUITY HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

Display unit		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M75	8	M88	68	Existed

4. Check continuity between display unit harness connector and ground.

Display unit		Ground	Continuity
Connector	Terminal		
M75	8		Not existed

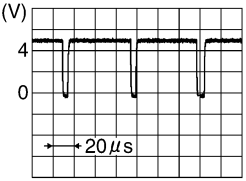
Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK HORIZONTAL SYNCHRONIZING (HP) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

(+)		(-)	Reference value
Display unit			
Connector	Terminal		
M75	8	Ground	 SKIB3603E

Is inspection result normal?

YES >> Replace AV control unit.

NO >> Replace Display unit.

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VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

Description

INFOID:000000003513832

In composite image (AUX image, camera image), transmit the vertical synchronizing (VP) signal and horizontal synchronizing (HP) signal from display unit to AV control unit so as to synchronize the RGB images displayed with AV control unit such as the image quality adjusting menu, etc.

Diagnosis Procedure

INFOID:000000003160714

1. CHECK CONTINUITY VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector and AV control unit harness connector.

Display unit		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M75	20	M88	69	Existed

4. Check continuity between display unit harness connector and ground.

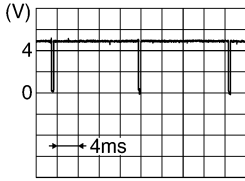
Display unit		Ground	Continuity
Connector	Terminal		
M75	20		Not existed

Is inspection result normal?

- YES >> GO TO 2.
 NO >> Repair harness or connector.

2. CHECK VERTICAL SYNCHRONIZING (VP) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector and ground.

(+)		(-)	Reference value
Display unit			
Connector	Terminal		
M75	20	Ground	 <p style="text-align: right; font-size: small;">SKIB3598E</p>

Is inspection result normal?

- YES >> Replace AV control unit.
 NO >> Replace Display unit.

AUX IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

AUX IMAGE SIGNAL CIRCUIT

Description

INFOID:000000003160715

Transmits the image signal of external device from auxiliary input jacks to display unit.

Diagnosis Procedure

INFOID:000000003160716

1. CHECK CONTINUITY AUX IMAGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect auxiliary input jacks connector and display unit connector.
3. Check continuity between auxiliary input jacks harness connector and display unit harness connector.

Auxiliary input jacks		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
M154	7	M75	15	Existed

4. Check continuity between auxiliary input jacks harness connector and ground.

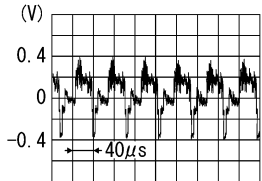
Auxiliary input jacks		Ground	Continuity
Connector	Terminal		
M154	7		Not existed

Is inspection result normal?

- YES >> GO TO 2.
NO >> Repair harness or connector.

2. CHECK AUX IMAGE SIGNAL

1. Connect auxiliary input jacks connector and display unit connector.
2. Turn ignition switch ON.
3. Check signal between auxiliary input jacks harness connector and ground.

(+) Auxiliary input jacks		(-)	Condition	Reference value
Connector	Terminal			
M154	7	Ground	At AUX image displayed	 <p>(V) 0.4 0 -0.4 40µs SKIB2251J</p>

Is inspection result normal?

- YES >> Replace display unit.
NO >> Check that there is no malfunction in the external device.

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MODE CHANGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

MODE CHANGE SIGNAL CIRCUIT

Description

INFOID:000000003533898

- AV control unit transmits the mode change signal to BOSE amp.
- Driver's Audio Stage controls the speaker's output characteristic by BOSE amp. so that the driver's seat is to be the center of sounds.

Diagnosis Procedure

INFOID:000000003533899

1. CHECK CONTINUITY MODE CHANGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BOSE amp. connector and AV control unit connector.
3. Check continuity between BOSE amp. harness connector and AV control unit harness connector.

BOSE amp.		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
B41	17	M87	44	Existed

4. Check continuity between BOSE amp. harness connector and ground.

BOSE amp.		Ground	Continuity
Connector	Terminal		
B41	17		Not existed

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair harness or connector.

2. CHECK MODE CHANGE SIGNAL

1. Connect BOSE amp. connector.
2. Turn ignition switch ON.
3. Check voltage between BOSE amp. harness connector and ground.

(+) BOSE amp.		(-)	Voltage (Approx.)
Connector	Terminal		
B41	17	Ground	8.5 V

Is the inspection result normal?

- YES >> Replace AV control unit.
NO >> Replace BOSE amp.

DISK EJECT SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

DISK EJECT SIGNAL CIRCUIT

Description

INFOID:000000003160717

The eject signal is output to AV control unit when the eject switch of multifunction switch is pressed.

Diagnosis Procedure

INFOID:000000003160718

1. CHECK CONTINUITY CD EJECT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect multifunction switch connector and AV control unit connector.
3. Check continuity between multifunction switch harness connector and AV control unit harness connector.

Multifunction switch		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	
M72	14	M89	85	Existed

4. Check continuity between multifunction switch harness connector and ground.

Multifunction switch		Ground	Continuity
Connector	Terminal		
M72	14		Not existed

Is inspection result normal?

- YES >> GO TO 2.
NO >> Repair harness or connector.

2. CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector and ground.

(+)		(-)	Voltage (Approx.)
AV control unit			
Connector	Terminal		
M89	85	Ground	3.3 V

Is inspection result normal?

- YES >> Replace preset switch.
NO >> Replace AV control unit.

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AV

MICROPHONE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

MICROPHONE SIGNAL CIRCUIT

Description

INFOID:000000003160719

Supply power from AV control unit to microphone. The microphone transmits the sound voice to the AV control unit.

Diagnosis Procedure

INFOID:000000003160720

1. CHECK CONTINUITY BETWEEN AV CONTROL UNIT AND MICROPHONE CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector and microphone connector.
3. Check continuity between AV control unit harness connector and microphone harness connector.

AV control unit		Microphone		Continuity
Connector	Terminals	Connector	Terminals	
M87	26	R17	4	Existed
	27		2	
	28		1	

4. Check continuity between AV control unit harness connector and ground.

AV control unit		Ground	Continuity
Connector	Terminals		
M87	26		Not existed
	28		

Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK VOLTAGE MICROPHONE VCC

1. Connect AV control unit connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector.

(+)		(-)		Voltage (Approx.)
AV control unit		AV control unit		
Connector	Terminal	Connector	Terminal	
M87	26	M87	27	5.0 V

Is inspection result normal?

YES >> GO TO 3.

NO >> Replace AV control unit.

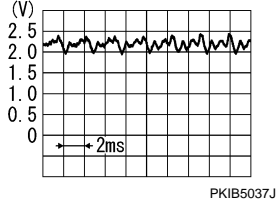
3. CHECK MICROPHONE SIGNAL

1. Turn ignition switch OFF.
2. Connect microphone connector.
3. Turn ignition switch ON.
4. Check signal between AV control unit harness connector.

MICROPHONE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

(+)		(-)		Condition	Reference value
AV control unit		AV control unit			
Connector	Terminal	Connector	Terminal		
M87	28	M87	27	give a voice.	

Is inspection result normal?

YES >> Replace AV control unit.

NO >> Replace microphone.

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AV

REAR VIEW CAMERA IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

REAR VIEW CAMERA IMAGE SIGNAL CIRCUIT

Description

INFOID:000000003513843

- Camera control unit outputs camera ON signal to rear view camera and inputs rear view camera image signal from rear view camera when the reverse signal is input.
- The camera control unit that inputs the camera image signal transmits the camera image signal to the display unit.

Diagnosis Procedure

INFOID:000000003369310

1. CHECK CONTINUITY CAMERA POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and rear view camera connector.
3. Check continuity between camera control unit harness connector and rear view camera harness connector.

Camera control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	
B50	8	D121	1	Existed

4. Check continuity between camera control unit harness connector and ground.

Camera control unit		Ground	Continuity
Connector	Terminal		
B50	8		Not existed

Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK VOLTAGE CAMERA POWER SUPPLY

1. Connect camera control unit connector and rear view camera connector.
2. Turn ignition switch ON.
3. Shift position is "R"
4. Check voltage between camera control unit harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
Camera control unit				
Connector	Terminal			
B50	8	Ground	Shift position is "R"	6.0 V

Is inspection result normal?

YES >> GO TO 3.

NO >> Replace camera control unit.

3. CHECK CONTINUITY CAMERA IMAGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and rear view camera connector.
3. Check continuity between camera control unit harness connector and rear view camera harness connector.

Camera control unit		Rear view camera		Continuity
Connector	Terminal	Connector	Terminal	
B50	6	D121	3	Existed

4. Check continuity between camera control unit harness connector and ground.

REAR VIEW CAMERA IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Camera control unit		Ground	Continuity
Connector	Terminal		
B50	6		Not existed

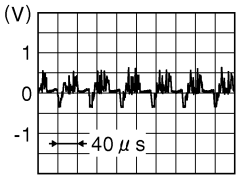
Is inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4. CHECK CAMERA IMAGE SIGNAL

1. Connect camera control unit connector and rear view camera connector.
2. Turn ignition switch ON.
3. Shift position is "R"
4. Check signal between camera control unit harness connector and ground.

(+) Camera control unit		(-)	Condition	Reference value
Connector	Terminal			
B50	6	Ground	Shift position is "R"	 <p>JSNIA0834GB</p>

Is inspection result normal?

YES >> Replace camera control unit.

NO >> Replace rear view camera.

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AV

CAMERA IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

CAMERA IMAGE SIGNAL CIRCUIT WITH REAR VIEW MONITOR

WITH REAR VIEW MONITOR : Description

INFOID:000000003160725

- Camera control unit outputs camera ON signal to rear view camera and inputs rear view camera image signal from rear view camera when the reverse signal is input.
- The camera control unit that inputs the camera image signal transmits the camera image signal to the display unit.

WITH REAR VIEW MONITOR : Diagnosis Procedure

INFOID:000000003160726

1. CHECK CONTINUITY CAMERA IMAGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and display unit connector.
3. Check continuity between camera control unit harness connector and display unit harness connector.

Camera control unit		Display unit		Continuity
Connector	Terminal	Connector	Terminal	
B50	12	M75	12	Existed

4. Check continuity between camera control unit harness connector and ground.

Camera control unit		Ground	Continuity
Connector	Terminal		
B50	12		Not existed

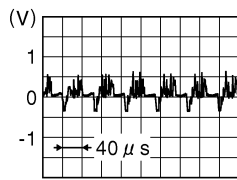
Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK CAMERA IMAGE SIGNAL

1. Connect camera control unit connector and display unit connector.
2. Turn ignition switch ON.
3. Shift position is "R".
4. Check signal between camera control unit harness connector and ground.

(+)		(-)	Condition	Reference value
Camera control unit	Terminal			
Connector	Terminal			
B50	12	Ground	Shift position is "R"	 <p style="text-align: right; font-size: small;">JSNIA0834GB</p>

Is inspection result normal?

YES >> Replace display unit.

NO >> Replace camera control unit.

WITH AROUND VIEW MONITOR

CAMERA IMAGE SIGNAL CIRCUIT

[BOSE AUDIO WITH NAVIGATION]

< COMPONENT DIAGNOSIS >

INFOID:000000003513842

WITH AROUND VIEW MONITOR : Description

- Around view monitor control unit supplies to the front camera, rear camera and side camera. And then it superimpose the images from each camera and outputs then to the display unit.
- Superimpose the guiding lines, predicted course line and sonar indicator to the camera image that outputs to the display unit.
- Around view monitor control unit performs the reception/transmission of communication signal with each camera.

WITH AROUND VIEW MONITOR : Diagnosis Procedure

INFOID:000000003415753

1. CHECK CONTINUITY CAMERA IMAGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector and display unit connector.
3. Check continuity between around view monitor control unit harness connector and display unit harness connector.

Around view monitor control unit		display unit		Continuity
Connector	Terminal	Connector	Terminal	
B46	27	M75	12	Existed

4. Check continuity between around view monitor control unit harness connector and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
B46	27		Not existed

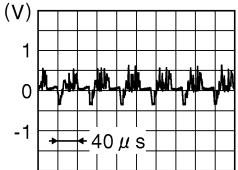
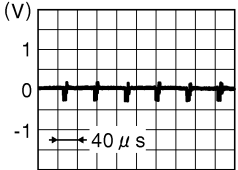
Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK CAMERA IMAGE SIGNAL

1. Connect around view monitor control unit connector and display unit connector.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit harness connector and ground.

(+)		(-)	Condition	Reference value
Around view monitor control unit				
Connector	Terminal			
B46	27	Ground	At camera image display	
			Other than camera image display	

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AV

CAMERA IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Is inspection result normal?

YES >> Replace display unit.

NO >> Replace around view monitor control unit.

STEERING ANGLE SENSOR SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

STEERING ANGLE SENSOR SIGNAL CIRCUIT WITH REAR VIEW MONITOR

WITH REAR VIEW MONITOR : Description

INFOID:000000003160727

- Steering angle sensor signal 1, 2 detects the turning direction and quantity of the steering and transmits it to the camera control unit.
- Steering angle sensor signal 3 detects the neutral position of the steering and transmits it to the camera control unit.
- Camera control unit performs the correction of neutral position with sensor signal 1, 2, 3 and vehicle speed signal.

WITH REAR VIEW MONITOR : Diagnosis Procedure

INFOID:000000003160728

1. CHECK CONTINUITY STEERING ANGLE SENSOR SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and steering angle sensor connector.
3. Check continuity between camera control unit harness connector and steering angle sensor harness connector.

Camera control unit		Steering angle sensor		Continuity
Connector	Terminals	Connector	Terminals	
B50	23	M37	3	Existed
	24		4	
	25		5	

4. Check continuity between camera control unit harness connector and ground.

Camera control unit		Ground	Continuity
Connector	Terminals		
B50	23	Ground	Not existed
	24		
	25		

Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK SIGNAL SENSOR SIGNAL

1. Connect camera control unit connector.
2. Turn ignition switch ON.
3. Check voltage between camera control unit harness connector and ground.

(+)		(-)	Voltage (Approx.)
Camera control unit			
Connector	Terminals		
B50	23	Ground	5.0 V
	24		
	25		

Is inspection result normal?

YES >> GO TO 3.

NO >> Replace camera control unit.

3. CHECK SIGNAL SENSOR SIGNAL

STEERING ANGLE SENSOR SIGNAL CIRCUIT

[BOSE AUDIO WITH NAVIGATION]

< COMPONENT DIAGNOSIS >

1. Turn ignition switch OFF.
2. Connect steering angle sensor connector.
3. Turn ignition switch ON.
4. Check signal between camera control unit harness connector and ground.

(+)		(-)	Condition	Reference value
Camera control unit				
Connector	Terminals			
B50	23, 24	Ground	Turn the steering to the right	<p>A: Sensor signal 1 B: Sensor signal 2</p>
			Turn the steering to the left	<p>A: Sensor signal 1 B: Sensor signal 2</p>
	25	Ground	Turn the steering around the neutral position	<p>A: Sensor signal 3 B: Sensor signal 1</p>

Is inspection result normal?

- YES >> INSPECTION END
 NO >> Replace steering angle sensor.

WITH AROUND VIEW MONITOR

WITH AROUND VIEW MONITOR : Description

INFOID:000000003514103

- Steering angle sensor signal 1, 2 detects the turning direction and quantity of the steering and transmits it to the around view monitor control unit.
- Steering angle sensor signal 3 detects the neutral position of the steering and transmits it to around view monitor control unit.
- Around view monitor control unit performs the correction of neutral position with sensor signal 1, 2, 3 and vehicle speed signal.

WITH AROUND VIEW MONITOR : Diagnosis Procedure

INFOID:000000003514104

1. CHECK CONTINUITY STEERING ANGLE SENSOR SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector and steering angle sensor connector.
3. Check continuity between around view monitor control unit harness connector and steering angle sensor harness connector.

STEERING ANGLE SENSOR SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Around view monitor control unit		Steering angle sensor		Continuity
Connector	Terminals	Connector	Terminals	
B46	14	M37	3	Existed
	15		4	
	16		5	

4. Check continuity between around view monitor control unit harness connector and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminals		
B46	14	Ground	Not existed
	15		
	16		

Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK SIGNAL SENSOR SIGNAL

1. Connect around view monitor control unit connector.
2. Turn ignition switch ON.
3. Check voltage between around view monitor control unit harness connector and ground.

(+)		(-)	Voltage (Approx.)
Around view monitor control unit			
Connector	Terminals		
B46	14	Ground	5.0 V
	15		
	16		

Is inspection result normal?

YES >> GO TO 3.

NO >> Replace around view monitor control unit.

3. CHECK SIGNAL SENSOR SIGNAL

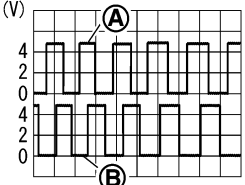
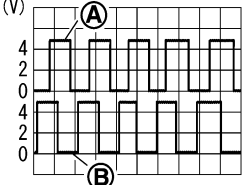
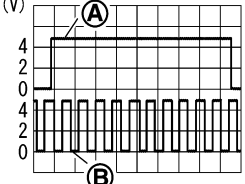
1. Turn ignition switch OFF.
2. Connect steering angle sensor connector.
3. Turn ignition switch ON.
4. Check signal between around view monitor control unit harness connector and ground.

AV

STEERING ANGLE SENSOR SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

(+)		(-)	Condition	Reference value
Around view monitor control unit				
Connector	Terminals			
B46	14, 15	Ground	Turn the steering to the right	 <p>SKIB3827E A: Sensor signal 1 B: Sensor signal 2</p>
			Turn the steering to the left	 <p>SKIB3828E A: Sensor signal 1 B: Sensor signal 2</p>
	16	Ground	Turn the steering around the neutral position	 <p>SKIB3829E A: Sensor signal 3 B: Sensor signal 1</p>

Is inspection result normal?

YES >> INSPECTION END

NO >> Replace steering angle sensor.

STEERING SWITCH SIGNAL A CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

STEERING SWITCH SIGNAL A CIRCUIT

Description

INFOID:000000003160731

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:000000003160732

1. CHECK STEERING SWITCH SIGNAL A CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector and spiral cable harness connector.

AV control unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
M80	6	M36	24	Existed

3. Check continuity between AV control unit harness connector and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M80	6		Not existed

Is inspection result normal?

- YES >> GO TO 2.
 NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is inspection result normal?

- YES >> GO TO 3.
 NO >> Replace spiral cable.

3. CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector and spiral cable connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector.

(+)		(-)		Voltage (Approx.)
AV control unit		AV control unit		
Connector	Terminal	Connector	Terminal	
M80	6	M80	15	5.0 V

Is inspection result normal?

- YES >> GO TO 4.
 NO >> Replace AV control unit.

4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-572. "Component Inspection"](#).

Is inspection result normal?

- YES >> INSPECTION END
 NO >> Replace steering switch.

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AV

STEERING SWITCH SIGNAL A CIRCUIT

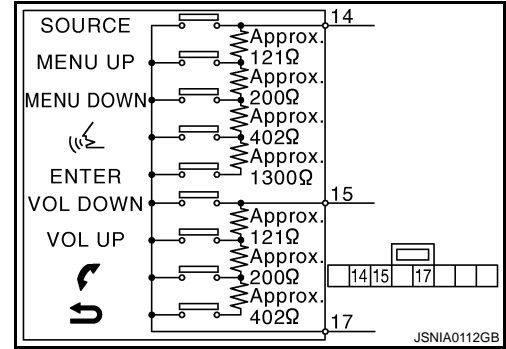
< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Component Inspection

INFOID:000000003160733

Measure the resistance between the steering switch connector.



Steering switch		Steering switch		Condition	Resistance value (Ω)
Connector	Terminal	Connector	Terminal		
M303	14	M303	17	ENTER switch ON	2003 – 2043
				⏪ switch ON	716 – 730
				MENU DOWN switch ON	318 – 324
				MENU UP switch ON	120 – 122
				SOURCE switch ON	0
	15			⏩ switch ON	716 – 730
				⏴ switch ON	318 – 324
				VOL UP switch ON	120 – 122
				VOL DOWN switch ON	0

STEERING SWITCH SIGNAL B CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

STEERING SWITCH SIGNAL B CIRCUIT

Description

INFOID:000000003513833

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:000000003160735

1. CHECK STEERING SWITCH SIGNAL B CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector and spiral cable harness connector.

AV control unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
M80	16	M36	31	Existed

3. Check continuity between AV control unit harness connector and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M80	16		Not existed

Is inspection result normal?

- YES >> GO TO 2.
 NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is inspection result normal?

- YES >> GO TO 3.
 NO >> Replace spiral cable.

3. CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector and spiral cable connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector.

(+)		(-)		Voltage (Approx.)
AV control unit		AV control unit		
Connector	Terminal	Connector	Terminal	
M80	16	M80	15	5.0 V

Is inspection result normal?

- YES >> GO TO 4.
 NO >> Replace AV control unit.

4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-574, "Component Inspection"](#).

Is inspection result normal?

- YES >> INSPECTION END
 NO >> Replace steering switch.

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STEERING SWITCH SIGNAL B CIRCUIT

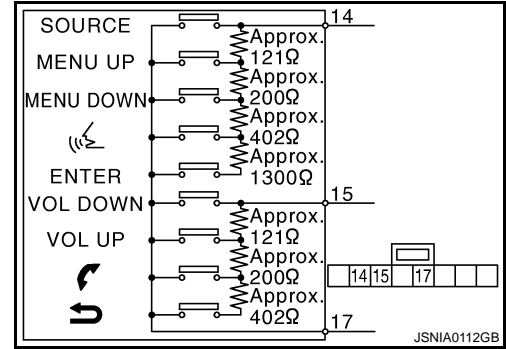
< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

INFOID:000000003566474

Component Inspection

Measure the resistance between the steering switch connector.



Steering switch		Steering switch		Condition	Resistance value (Ω)
Connector	Terminal	Connector	Terminal		
M303	14	M303	17	ENTER switch ON	2003 – 2043
				↵ switch ON	716 – 730
				MENU DOWN switch ON	318 – 324
				MENU UP switch ON	120 – 122
				SOURCE switch ON	0
	15			↷ switch ON	716 – 730
				↶ switch ON	318 – 324
				VOL UP switch ON	120 – 122
				VOL DOWN switch ON	0

STEERING SWITCH SIGNAL GND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

STEERING SWITCH SIGNAL GND CIRCUIT

Description

INFOID:000000003513834

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:000000003160738

1. CHECK STEERING SWITCH SIGNAL GND CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector and spiral cable harness connector.

AV control unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
M80	15	M36	33	Existed

Is inspection result normal?

- YES >> GO TO 2.
 NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is inspection result normal?

- YES >> GO TO 3.
 NO >> Replace spiral cable.

3. CHECK GROUND CIRCUIT

1. Connect AV control unit connector.
2. Check continuity between AV control unit harness connector and ground.

AV control unit		Ground	Continuity
Connector	Terminal		
M80	15		Not existed

Is inspection result normal?

- YES >> GO TO 4.
 NO >> Replace AV control unit.

4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-575, "Component Inspection"](#).

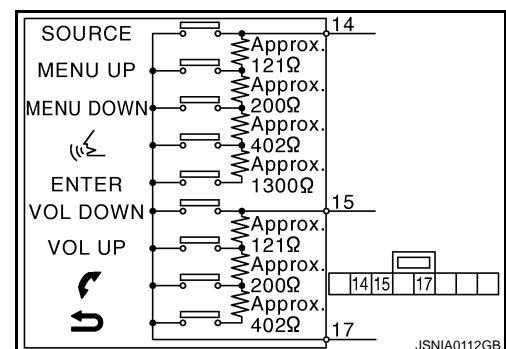
Is inspection result normal?

- YES >> INSPECTION END
 NO >> Replace steering switch.

Component Inspection

INFOID:000000003566475




Measure the resistance between the steering switch connector.



STEERING SWITCH SIGNAL GND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Steering switch		Steering switch		Condition	Resistance value (Ω)
Connector	Terminal	Connector	Terminal		
M303	14	M303	17	ENTER switch ON	2003 – 2043
				 switch ON	716 – 730
				MENU DOWN switch ON	318 – 324
				MENU UP switch ON	120 – 122
				SOURCE switch ON	0
	15			 switch ON	716 – 730
				 switch ON	318 – 324
				VOL UP switch ON	120 – 122
				VOL DOWN switch ON	0

FRONT CAMERA COMMUNICATION SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

FRONT CAMERA COMMUNICATION SIGNAL CIRCUIT

Description

INFOID:000000003160721

- Around view monitor control unit supplies to the front camera, rear camera and side camera. And then it superimpose the images from each camera and outputs then to the display unit.
- Superimpose the guiding lines, predicted course line and sonar indicator to the camera image that outputs to the display unit.
- Around view monitor control unit performs the reception/transmission of communication signal with each camera.

Diagnosis Procedure

INFOID:000000003160722

1. CHECK CONTINUITY COMMUNICATION SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector and front camera connector.
3. Check continuity between around view monitor control unit harness connector and front camera harness connector.

Around view monitor control unit		Front camera		Continuity
Connector	Terminal	Connector	Terminal	
B45	45	E73	6	Existed

4. Check continuity between around view monitor control unit harness connector and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
B45	45		Not existed

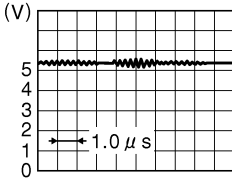
Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK COMMUNICATION SIGNAL

1. Connect around view monitor control unit connector and front camera connector.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit harness connector and ground.

(+)		(-)	Reference value
Around view monitor control unit			
Connector	Terminal		
B45	45	Ground	 <p>JSNIA0836GB</p>

Is inspection result normal?

YES >> Replace around view monitor control unit.

NO >> Replace front camera.

FRONT CAMERA IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

FRONT CAMERA IMAGE SIGNAL CIRCUIT

Description

INFOID:000000003513835

- Around view monitor control unit supplies to the front camera, rear camera and side camera. And then it superimpose the images from each camera and outputs then to the display unit.
- Superimpose the guiding lines, predicted course line and sonar indicator to the camera image that outputs to the display unit.
- Around view monitor control unit performs the reception/transmission of communication signal with each camera.

Diagnosis Procedure

INFOID:000000003369308

1. CHECK CONTINUITY FRONT CAMERA POWER SUPPLY AND GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector and front camera connector.
3. Check continuity between around view monitor control unit harness connector and front camera harness connector.

Around view monitor control unit		Front camera		Continuity
Connector	Terminals	Connector	Terminals	
B45	44	E73	2	Existed
	46		1	

4. Check continuity between around view monitor control unit harness connector and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
B45	46		Not existed

Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK VOLTAGE FRONT CAMERA POWER SUPPLY

1. Connect around view monitor control unit connector and front camera connector.
2. Turn ignition switch ON.
3. Check voltage between around view monitor control unit harness connector.

(+)		(-)	Condition	Voltage (Approx.)
Around view monitor control unit				
Connector	Terminal			
B45	46	Ground	"CAMERA" switch is ON or shift position is "R".	6.0 V

Is inspection result normal?

YES >> GO TO 3.

NO >> Replace around view monitor control unit.

3. CHECK CONTINUITY FRONT CAMERA IMAGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector and front camera connector.
3. Check continuity between around view monitor control unit harness connector and front camera harness connector.

FRONT CAMERA IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Around view monitor control unit		Front camera		Continuity
Connector	Terminals	Connector	Terminals	
B45	41	E73	3	Existed
	42		4	

4. Check continuity between around view monitor control unit harness connector and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminals		
B45	41, 42		Not existed

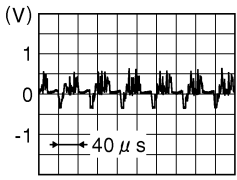
Is inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4. CHECK FRONT CAMERA IMAGE SIGNAL

1. Connect around view monitor control unit connector and front camera connector.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit harness connector.

(+)		(-)		Condition	Reference value
Around view monitor control unit		Around view monitor control unit			
Connector	Terminal	Connector	Terminal		
B45	41	B45	42	"CAMERA" switch is ON or shift position is "R".	 <p style="text-align: right; font-size: small;">JSNIA0834GB</p>

Is inspection result normal?

YES >> Replace around view monitor control unit.

NO >> Replace front camera.

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REAR CAMERA COMMUNICATION SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

REAR CAMERA COMMUNICATION SIGNAL CIRCUIT

Description

INFOID:000000003513836

- Around view monitor control unit supplies to the front camera, rear camera and side camera. And then it superimpose the images from each camera and outputs then to the display unit.
- Superimpose the guiding lines, predicted course line and sonar indicator to the camera image that outputs to the display unit.
- Around view monitor control unit performs the reception/transmission of communication signal with each camera.

Diagnosis Procedure

INFOID:000000003455036

1. CHECK CONTINUITY COMMUNICATION SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector and rear camera connector.
3. Check continuity between around view monitor control unit harness connector and rear camera harness connector.

Around view monitor control unit		Rear camera		Continuity
Connector	Terminal	Connector	Terminal	
B46	35	D111	4	Existed

4. Check continuity between around view monitor control unit harness connector and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
B46	35		Not existed

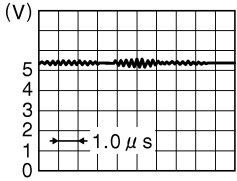
Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK COMMUNICATION SIGNAL

1. Connect around view monitor control unit connector and rear camera connector.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit harness connector and ground.

(+)		(-)	Reference value
Around view monitor control unit			
Connector	Terminal		
B46	35	Ground	 <p>JSNIA0836GB</p>

Is inspection result normal?

YES >> Replace around view monitor control unit.

NO >> Replace rear camera.

REAR CAMERA IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

REAR CAMERA IMAGE SIGNAL CIRCUIT

Description

INFOID:000000003513837

- Around view monitor control unit supplies to the front camera, rear camera and side camera. And then it superimpose the images from each camera and outputs then to the display unit.
- Superimpose the guiding lines, predicted course line and sonar indicator to the camera image that outputs to the display unit.
- Around view monitor control unit performs the reception/transmission of communication signal with each camera.

Diagnosis Procedure

INFOID:000000003455038

1. CHECK CONTINUITY REAR CAMERA POWER SUPPLY AND GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector and rear camera connector.
3. Check continuity between around view monitor control unit harness connector terminals 36, 38 and rear camera harness connector terminals 8, 7.

Around view monitor control unit		Rear camera		Continuity
Connector	Terminals	Connector	Terminals	
B46	36	D111	8	Existed
	38		7	

4. Check continuity between around view monitor control unit harness connector and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
B46	36		Not existed

Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK VOLTAGE REAR CAMERA POWER SUPPLY

1. Connect around view monitor control unit connector and rear camera connector.
2. Turn ignition switch ON.
3. Check voltage between around view monitor control unit harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
Connector	Terminal			
B46	36	Ground	"CAMERA" switch is ON or shift position is "R".	6.0 V

Is inspection result normal?

YES >> GO TO 3.

NO >> Replace around view monitor control unit.

3. CHECK CONTINUITY REAR CAMERA IMAGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector and rear camera connector.
3. Check continuity between around view monitor control unit harness connector and rear camera harness connector.

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AV

REAR CAMERA IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Around view monitor control unit		Rear camera		Continuity
Connector	Terminals	Connector	Terminals	
B46	39	D111	5	Existed
	40		1	

4. Check continuity between around view monitor control unit harness connector and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminals		
B46	39, 40		Not existed

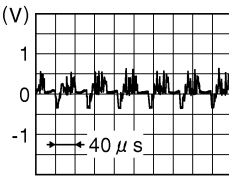
Is inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4. CHECK REAR CAMERA IMAGE SIGNAL

1. Connect around view monitor control unit connector and rear camera connector.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit harness connector.

(+)		(-)		Condition	Reference value
Around view monitor control unit		Around view monitor control unit			
Connector	Terminal	Connector	Terminal		
B46	39	B46	40	“CAMERA” switch is ON or shift position is “R”.	 <p style="text-align: right; font-size: small;">JSNIA0834GB</p>

Is inspection result normal?

YES >> Replace around view monitor control unit.

NO >> Replace rear camera.

SIDE CAMERA LH COMMUNICATION SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

SIDE CAMERA LH COMMUNICATION SIGNAL CIRCUIT

Description

INFOID:000000003513838

- Around view monitor control unit supplies to the front camera, rear camera and side camera. And then it superimpose the images from each camera and outputs then to the display unit.
- Superimpose the guiding lines, predicted course line and sonar indicator to the camera image that outputs to the display unit.
- Around view monitor control unit performs the reception/transmission of communication signal with each camera.

Diagnosis Procedure

INFOID:000000003455040

1. CHECK CONTINUITY COMMUNICATION SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector and door mirror (driver side) connector.
3. Check continuity between around view monitor control unit harness connector and door mirror (driver side) harness connector.

Around view monitor control unit		Door mirror (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
B45	47	D3	3	Existed

4. Check continuity between around view monitor control unit harness connector and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
B45	47		Not existed

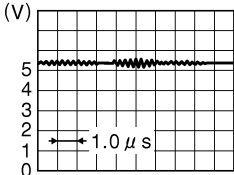
Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK COMMUNICATION SIGNAL

1. Connect around view monitor control unit connector and door mirror (driver side) connector.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit harness connector and ground.

(+)		(-)	Reference value
Around view monitor control unit			
Connector	Terminal		
B45	47	Ground	 <p>JSNIA0836GB</p>

Is inspection result normal?

YES >> Replace around view monitor control unit.

NO >> Replace side camera LH.

SIDE CAMERA LH IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

SIDE CAMERA LH IMAGE SIGNAL CIRCUIT

Description

INFOID:000000003513839

- Around view monitor control unit supplies to the front camera, rear camera and side camera. And then it superimpose the images from each camera and outputs then to the display unit.
- Superimpose the guiding lines, predicted course line and sonar indicator to the camera image that outputs to the display unit.
- Around view monitor control unit performs the reception/transmission of communication signal with each camera.

Diagnosis Procedure

INFOID:000000003455042

1. CHECK CONTINUITY SIDE CAMERA LH POWER SUPPLY AND GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector and door mirror (driver side) connector.
3. Check continuity between around view monitor control unit harness connector and door mirror (driver side) harness connector.

Around view monitor control unit		Door mirror (driver side)		Continuity
Connector	Terminals	Connector	Terminals	
B45	48	D3	6	Existed
	50		18	

4. Check continuity between around view monitor control unit harness connector and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
B45	48		Not existed

Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK VOLTAGE SIDE CAMERA LH POWER SUPPLY

1. Connect around view monitor control unit connector and door mirror (driver side) connector.
2. Turn ignition switch ON.
3. Check voltage between around view monitor control unit harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
Around view monitor control unit	Terminal			
Connector	Terminal			
B45	48	Ground	"CAMERA" switch is ON or shift position is "R".	6.0 V

Is inspection result normal?

YES >> GO TO 3.

NO >> Replace around view monitor control unit.

3. CHECK CONTINUITY SIDE CAMERA LH IMAGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector and door mirror (driver side) connector.
3. Check continuity between around view monitor control unit harness connector and door mirror (driver side) harness connector.

SIDE CAMERA LH IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Around view monitor control unit		Door mirror (driver side)		Continuity
Connector	Terminals	Connector	Terminals	
B45	51	D3	5	Existed
	52		17	

4. Check continuity between around view monitor control unit harness connector and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminals		
B45	51, 52		Not existed

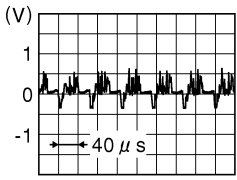
Is inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4. CHECK SIDE CAMERA LH IMAGE SIGNAL

1. Connect around view monitor control unit connector and door mirror (driver side) connector.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit harness connector.

(+)		(-)		Condition	Reference value
Around view monitor control unit		Around view monitor control unit			
Connector	Terminal	Connector	Terminal		
B45	51	B45	52	"CAMERA" switch is ON or shift position is "R".	

Is inspection result normal?

YES >> Replace around view monitor control unit.

NO >> Replace side camera LH.

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SIDE CAMERA RH COMMUNICATION SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

SIDE CAMERA RH COMMUNICATION SIGNAL CIRCUIT

Description

INFOID:000000003513840

- Around view monitor control unit supplies to the front camera, rear camera and side camera. And then it superimpose the images from each camera and outputs then to the display unit.
- Superimpose the guiding lines, predicted course line and sonar indicator to the camera image that outputs to the display unit.
- Around view monitor control unit performs the reception/transmission of communication signal with each camera.

Diagnosis Procedure

INFOID:000000003455044

1. CHECK CONTINUITY COMMUNICATION SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector and door mirror (passenger side) connector.
3. Check continuity between around view monitor control unit harness connector and door mirror (passenger side) harness connector.

Around view monitor control unit		Door mirror (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
B46	33	D33	3	Existed

4. Check continuity between around view monitor control unit harness connector and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
B46	33		Not existed

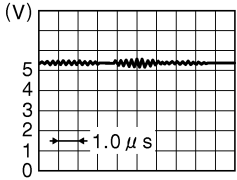
Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK COMMUNICATION SIGNAL

1. Connect around view monitor control unit connector and door mirror (passenger side) connector.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit harness connector and ground.

(+) Around view monitor control unit		(-)	Reference value
Connector	Terminal		
B46	33	Ground	 <p>JSNIA0836GB</p>

Is inspection result normal?

YES >> Replace around view monitor control unit.

NO >> Replace side camera RH.

SIDE CAMERA RH IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

SIDE CAMERA RH IMAGE SIGNAL CIRCUIT

Description

INFOID:000000003513841

- Around view monitor control unit supplies to the front camera, rear camera and side camera. And then it superimpose the images from each camera and outputs then to the display unit.
- Superimpose the guiding lines, predicted course line and sonar indicator to the camera image that outputs to the display unit.
- Around view monitor control unit performs the reception/transmission of communication signal with each camera.

Diagnosis Procedure

INFOID:000000003455046

1. CHECK CONTINUITY SIDE CAMERA RH POWER SUPPLY AND GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect control unit connector and door mirror (passenger side) connector.
3. Check continuity between around view monitor control unit harness connector and door mirror (passenger side) harness connector.

Around view monitor control unit		Door mirror (passenger side)		Continuity
Connector	Terminals	Connector	Terminals	
B46	32	D33	18	Existed
	34		6	

4. Check continuity between around view monitor control unit harness connector and ground.

Around view monitor control unit		Ground	Continuity
Connector	Terminal		
B46	34		Not existed

Is inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK VOLTAGE SIDE CAMERA RH POWER SUPPLY

1. Connect around view monitor control unit connector and door mirror (passenger side) connector.
2. Turn ignition switch ON.
3. Check voltage between around view monitor control unit harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
Around view monitor control unit				
Connector	Terminal			
B46	34	Ground	"CAMERA" switch is ON or shift position is "R".	6.0 V

Is inspection result normal?

YES >> GO TO 3.

NO >> Replace around view monitor control unit.

3. CHECK CONTINUITY SIDE CAMERA RH IMAGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect around view monitor control unit connector and door mirror (passenger side) connector.
3. Check continuity between around view monitor control unit harness connector and door mirror (passenger side) harness connector.

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SIDE CAMERA RH IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Around view monitor control unit		Door mirror (passenger side)		Continuity
Connector	Terminals	Connector	Terminals	
B46	29	D33	5	Existed
	30		17	

4. Check continuity between around view monitor control unit harness connector and ground.

around view monitor control unit		Ground	Continuity
Connector	Terminals		
B46	29, 30		Not existed

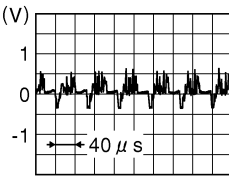
Is inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

4. CHECK SIDE CAMERA RH IMAGE SIGNAL

1. Connect around view monitor control unit connector and door mirror (passenger side) connector.
2. Turn ignition switch ON.
3. Check signal between around view monitor control unit harness connector.

(+)		(-)		Condition	Reference value
Around view monitor control unit		Around view monitor control unit			
Connector	Terminal	Connector	Terminal		
B46	29	B46	30	“CAMERA” switch is ON or shift position is “R”.	

JSNIA0834GB

Is inspection result normal?

YES >> Replace around view monitor control unit.

NO >> Replace side camera RH.

BUZZER CIRCUIT

Description

INFOID:000000003597481

The sonar control unit outputs the buzzer signal when the rear sonar detects the obstacle.

Component Function Check

INFOID:000000003597482

1. SONAR CONTROL UNIT ACTIVE TEST

Check the buzzer operation with the sonar control unit active test.

BUZZER

Test item	Condition
On	: Buzzer is operation.
Off	: Buzzer is not operation.

>> INSPECTION END

Diagnosis Procedure

INFOID:000000003597483

1. CHECK BUZZER POWER SUPPLY

1. Turn ignition switch ON.
2. Check voltage between buzzer harness connector and ground.

(+)		(-)	Voltage (Approx.)
Buzzer			
Connector	Terminal	Ground	Battery voltage
B240	1		

Is the inspection result normal?

- YES >> GO TO 2.
 NO >> Repair harness or connector.

2. CHECK HARNESS BUZZER SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect sonar control unit connector and buzzer connector.
3. Check continuity between sonar control unit harness connector and buzzer harness connector.

Sonar control unit		Buzzer		Continuity
Connector	Terminal	Connector	Terminal	
M47	23	B240	2	Existed

4. Check continuity between sonar control unit harness connector and ground.

Sonar control unit		Ground	Continuity
Connector	Terminal		
M47	23		Not existed

Is the inspection result normal?

- YES >> GO TO 3.
 NO >> Repair harness or connector.

3. CHECK SIGNAL SONAR CONTROL UNIT

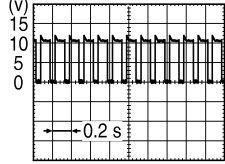
1. Connect sonar control unit connector and buzzer connector.
2. Check signal between sonar control unit harness connector and ground.

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BUZZER CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

(+)		(-)	Condition	Signal
Sonar control unit				
Connector	Terminal			
M47	23	Ground	When buzzer operation	<p>NOTE: Waveform period changes due to the distance to an obstacle.</p>  <p style="text-align: right; font-size: small;">SKIB8943E</p>

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace sonar control unit.

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

ECU DIAGNOSIS

AV CONTROL UNIT

Reference Value

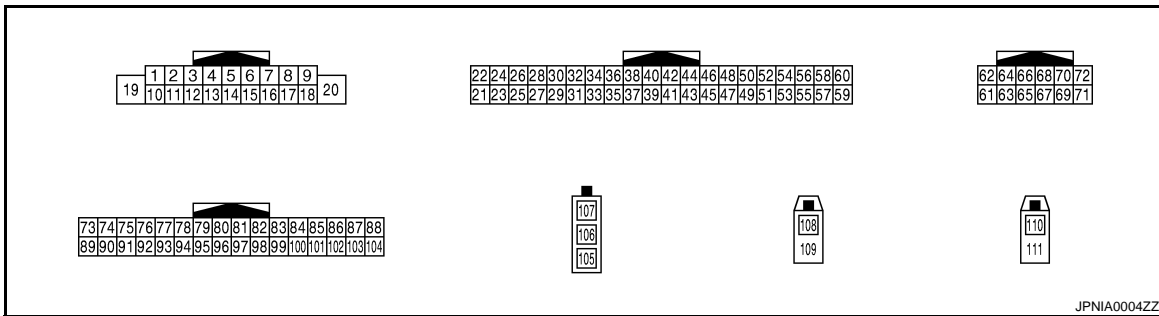
INFOID:000000003160740

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

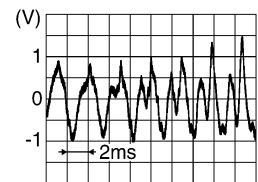
Display Item	Display	Vehicle status	Remarks
VHCL SPD SIG	ON	Vehicle speed >0 km/h (0 MPH)	Changes in indication may be delayed. This is normal.
	OFF	Vehicle speed =0 km/h (0 MPH)	
PKB SIG	ON	Parking brake is applied.	Changes in indication may be delayed. This is normal.
	OFF	Parking brake is released.	
ILLUM SIG	ON	Light switch ON	—
	OFF	Light switch OFF	
IGN SIG	ON	Ignition switch ON	—
	OFF	Ignition switch in ACC position	
REV SIG	ON	Selector lever in R position	Changes in indication may be delayed. This is normal.
	OFF	Selector lever in any position other than R	

TERMINAL LAYOUT



PHYSICAL VALUES

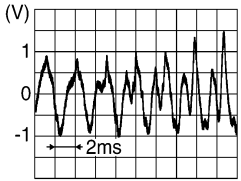

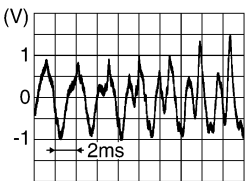
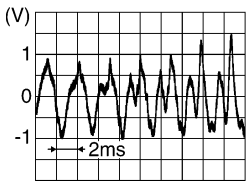


Terminal (Wire color)		Description		Condition	Reference value (Approx.)
+	-	Signal name	Input/Output		
1 (V)	Ground	Amp. ON signal	Output	Ignition switch ON	12.0 V
2 (P)	3 (L)	Sound signal front LH	Output	Ignition switch ON	Audio output



AV CONTROL UNIT

< ECU DIAGNOSIS >

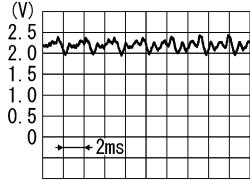
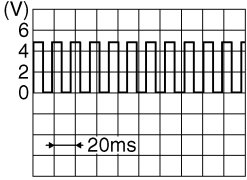
[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
4 (V)	5 (SB)	Sound signal rear LH	Output	Ignition switch ON	Audio output	 SKIB3609E
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 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
9 (R)	Ground	Illumination signal	Input	OFF	Lighting switch is OFF.	0 V
					Lighting switch is ON.	12.0 V
10 (B)	—	Shield	—	—	—	—
11 (R)	12 (G)	Sound signal front RH	Output	Ignition switch ON	Audio output	 SKIB3609E
13 (BR)	14 (Y)	Sound signal rear RH	Output	Ignition switch ON	Audio output	 SKIB3609E
15 (B)	Ground	Steering switch signal ground	—	Ignition switch ON	—	0 V
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.	

AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

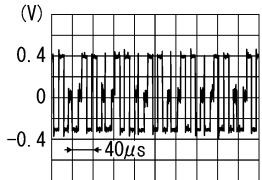
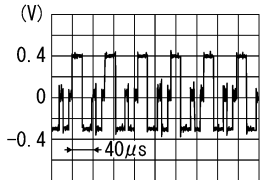
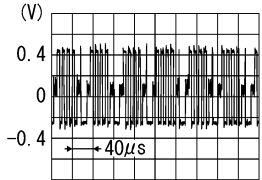
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
19 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
20 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
21 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
22 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
23 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
24 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
25 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
26 (G)	27	Microphone VCC	Output	Ignition switch ON	—	5.0 V
27	Ground	Microphone ground	—	ON	—	0 V
28 (R)	27	Microphone signal	Input	Ignition switch ON	Give a voice	 <p style="text-align: right; font-size: small;">PKIB5037J</p>
35 (G)	Ground	Ignition signal	Input	Ignition switch ON	—	Battery voltage
36 (V)	Ground	Parking brake signal	Input	Ignition switch ON	Parking brake ON	0 V
					Parking brake OFF	12.0 V
37 (O)	Ground	Reverse signal	Input	Ignition switch ON	R position	12.0 V
					Other than R position	0 V
38 (R)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is approx. 40 km/h (25MPH)	 <p style="text-align: right; font-size: small;">SKIA6649J</p>

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AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
40 (W)	Ground	Camera-connection recognition signal	Input	Ignition switch ON	Connected to camera control unit connector	0 V
					Not connected to camera control unit connector	5.0 V
41 (B)	Ground	Control signal 1	—	Ignition switch ON	—	0 V
42 (B)	Ground	Control signal 2	—	Ignition switch ON	—	0 V
43 (GR)	Ground	Control signal 3	—	Ignition switch ON	—	0 V
44 (SB)	Ground	Mode change signal	Output	Ignition switch ON	Driver's Audio Stage ON	0 V
					Driver's Audio Stage OFF	8.5 V
48 (G)	—	AV communication signal (H)	Input/ Output	—	—	—
49 (R)	—	AV communication signal (L)	Input/ Output	—	—	—
50 (LG)	—	AV communication signal (H)	Input/ Output	—	—	—
51 (V)	—	AV communication signal (L)	Input/ Output	—	—	—
52 (L)	—	CAN-H	Input/ Output	—	—	—
53 (P)	—	CAN-L	Input/ Output	—	—	—
61 (B)	Ground	RGB signal (R: red)	Output	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 <p style="text-align: right; font-size: small;">SKIB2238J</p>
62 (W)	Ground	RGB signal (G: green)	Output	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 <p style="text-align: right; font-size: small;">SKIB2236J</p>
63 (R)	Ground	RGB signal (B: blue)	Output	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 <p style="text-align: right; font-size: small;">SKIB2237J</p>
64	—	Shield	—	—	—	—

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
65 (G)	Ground	RGB synchronizing signal	Output	Ignition switch ON	—	<p style="text-align: right; font-size: small;">SKIB3603E</p>
66	—	Shield	—	—	—	—
67 (B)	Ground	RGB area (YS) signal	Output	Ignition switch ON	At RGB image display	5.0 V
					At camera image or AUX image display	<p style="text-align: right; font-size: small;">PKIB4948J</p>
68 (R)	Ground	Horizontal synchronizing (HP) signal	Input	Ignition switch ON	—	<p style="text-align: right; font-size: small;">SKIB3601E</p>
69 (W)	Ground	Vertical synchronizing (VP) signal	Input	Ignition switch ON	—	<p style="text-align: right; font-size: small;">SKIB3598E</p>
70 (BR)	Ground	Communication signal (CONT→DISP)	Output	Ignition switch ON	When adjusting display brightness.	<p style="text-align: right; font-size: small;">PKIB5039J</p>
71 (Y)	Ground	Communication signal (DISP→CONT)	Input	Ignition switch ON	When adjusting display brightness.	<p style="text-align: right; font-size: small;">PKIB5039J</p>
72	—	Shield	—	—	—	—

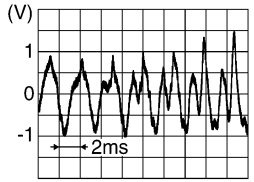
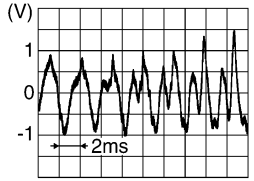
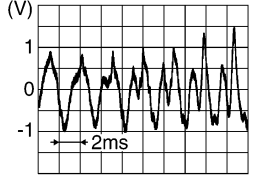
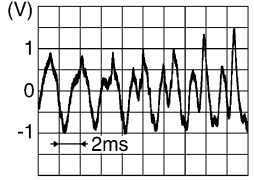
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AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
79 (R)	95 (W)	iPod sound signal LH	Input	Ignition switch ON	When iPod mode is select- ed	 SKIB3609E
80 (B)	96 (G)	iPod sound signal RH	Input	Ignition switch ON	When iPod mode is select- ed	 SKIB3609E
85 (SB)	Ground	Eject signal	Input	—	Pressing the eject switch	0 V
86	—	Shield	—	—	Except for above	3.3 V
87 (R)	88 (W)	AUX sound signal LH	Input	Ignition switch ON	When AUX mode is select- ed	 SKIB3609E
102 (BR)	Ground	SW ground	—	Ignition switch ON	—	0 V
103 (B)	88 (B)	AUX sound signal RH	Input	Ignition switch ON	When AUX mode is select- ed	 SKIB3609E
105	—	FM sub	Input	—	—	—
106	—	AM-FM main	Input	—	—	—
107	Ground	Antenna amp. ON signal	Output	Ignition switch ACC	—	120. V
108	Ground	Satellite antenna signal	Input	Ignition switch ACC	Not connected to satellite antenna connector	5.0 V
109	—	Shield	—	—	—	—
110	Ground	GPS antenna signal	Input	Ignition switch ACC	Not connected to GPS an- tenna connector	5.0 V
111	—	Shield	—	—	—	—

WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

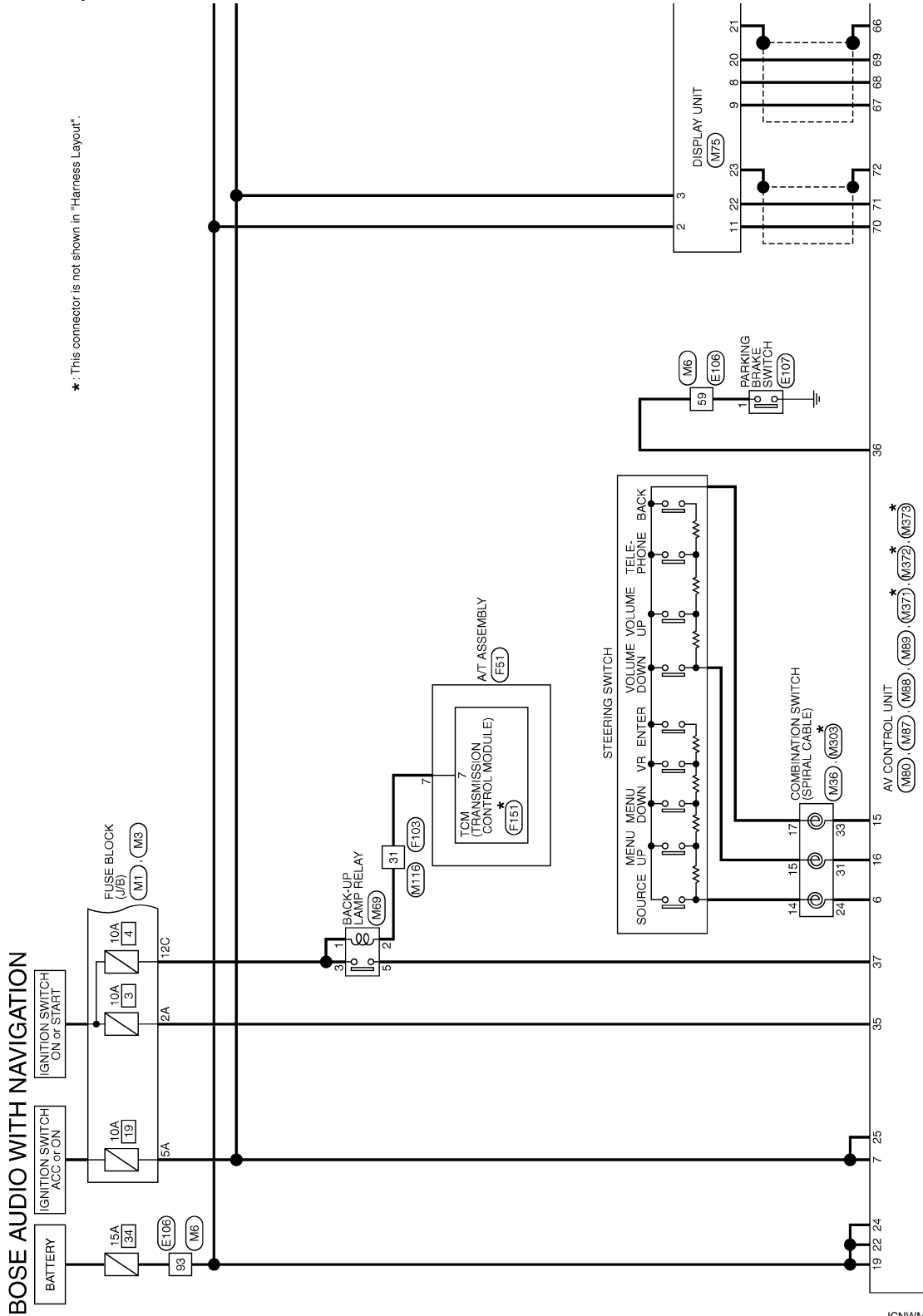
WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION -

INFOID:000000003160741

Click here to view the eWD.

NOTE:

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.



JCNW0761GI

2007/10/26

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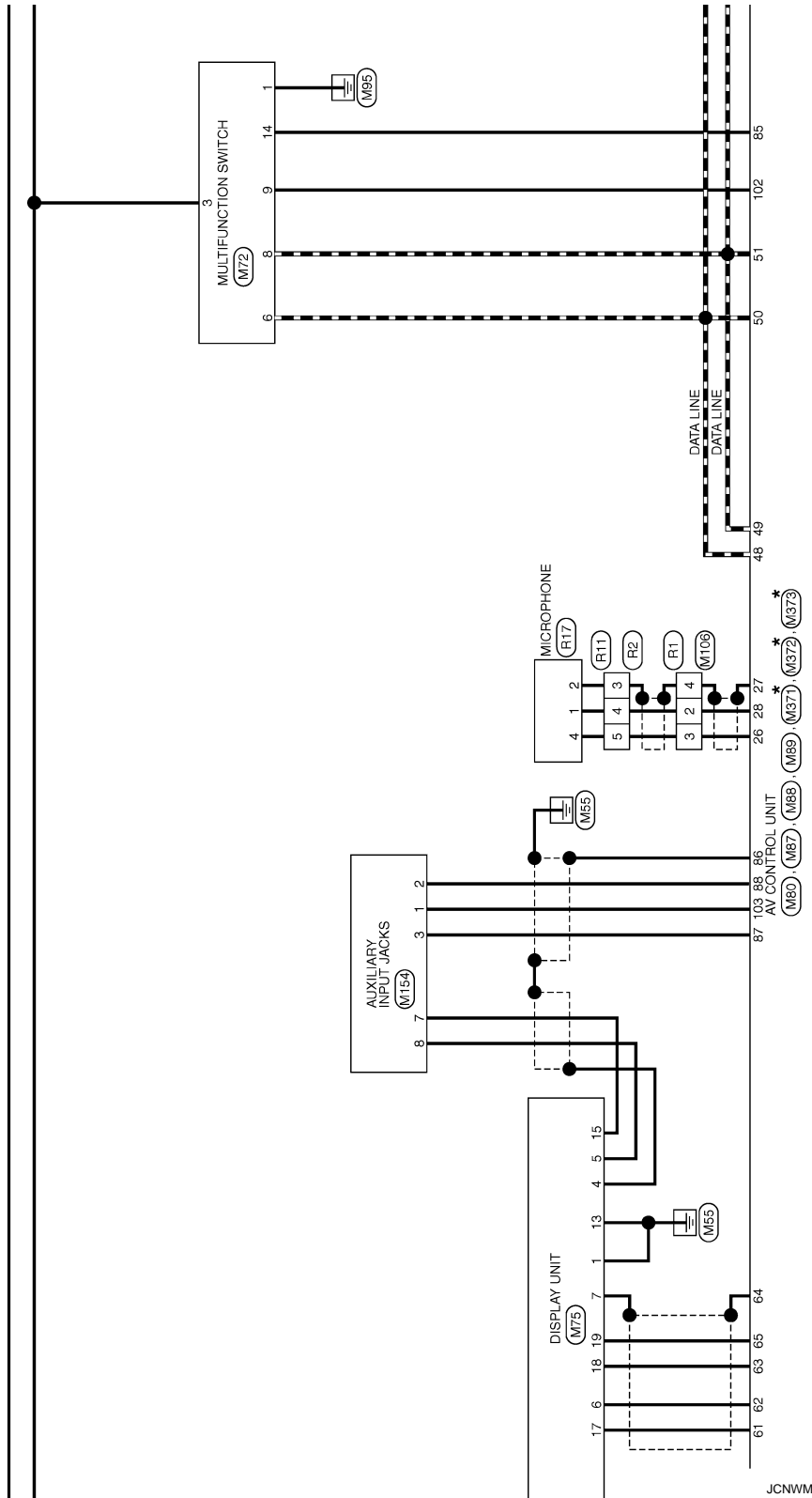
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AV CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

*: This connector is not shown in "Harness Layout".

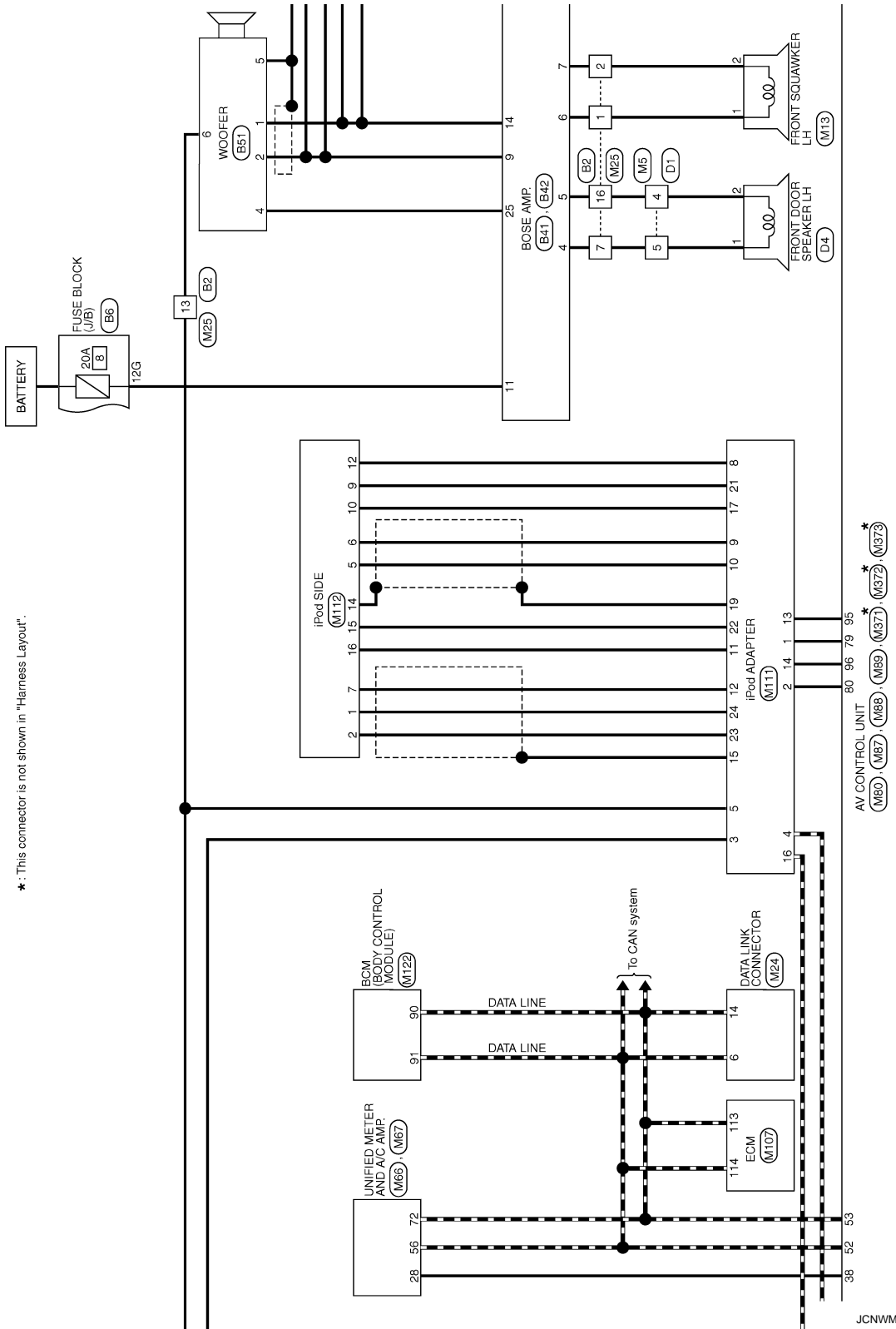


JCNWM0762GI

AV CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >



*: This connector is not shown in "Harness Layout".

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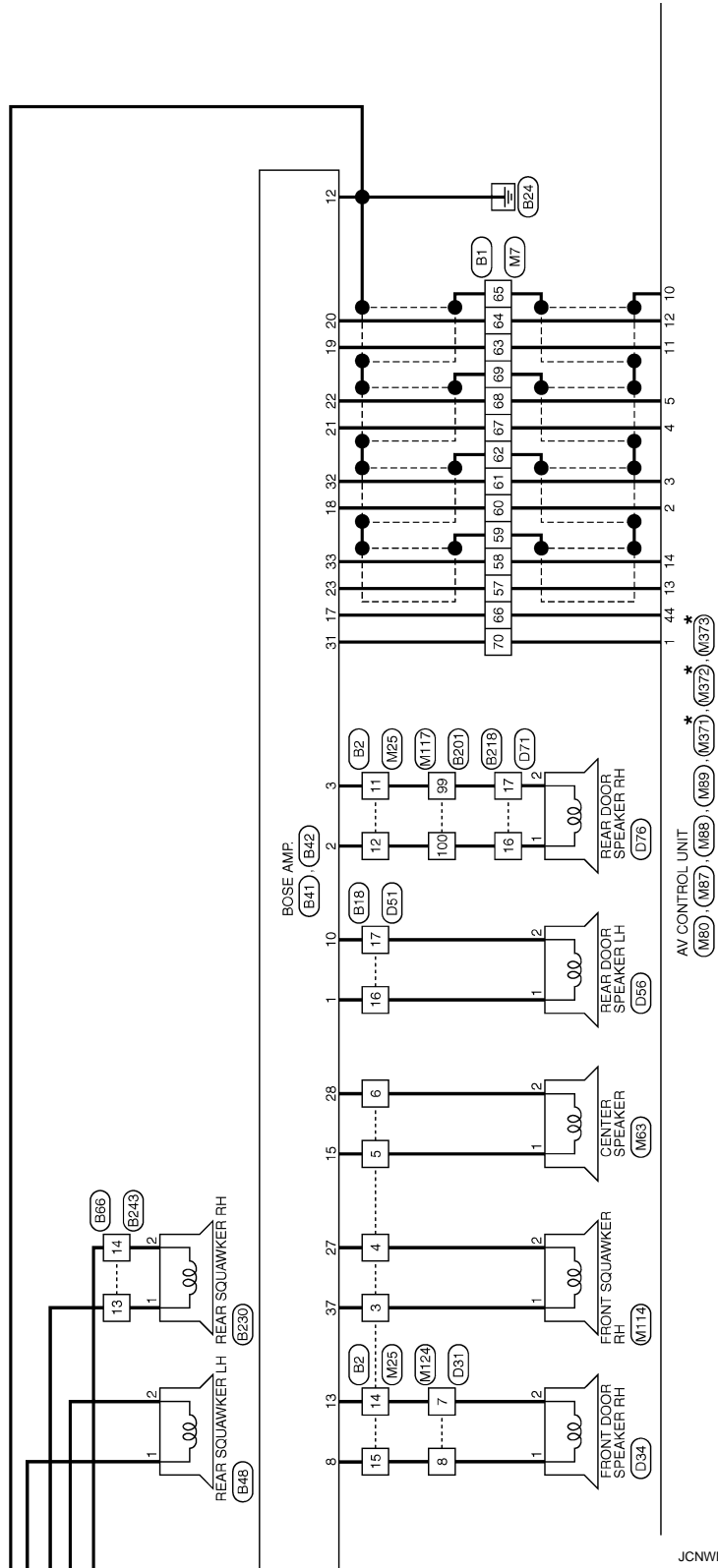
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AV CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

*: This connector is not shown in "Harness Layout".



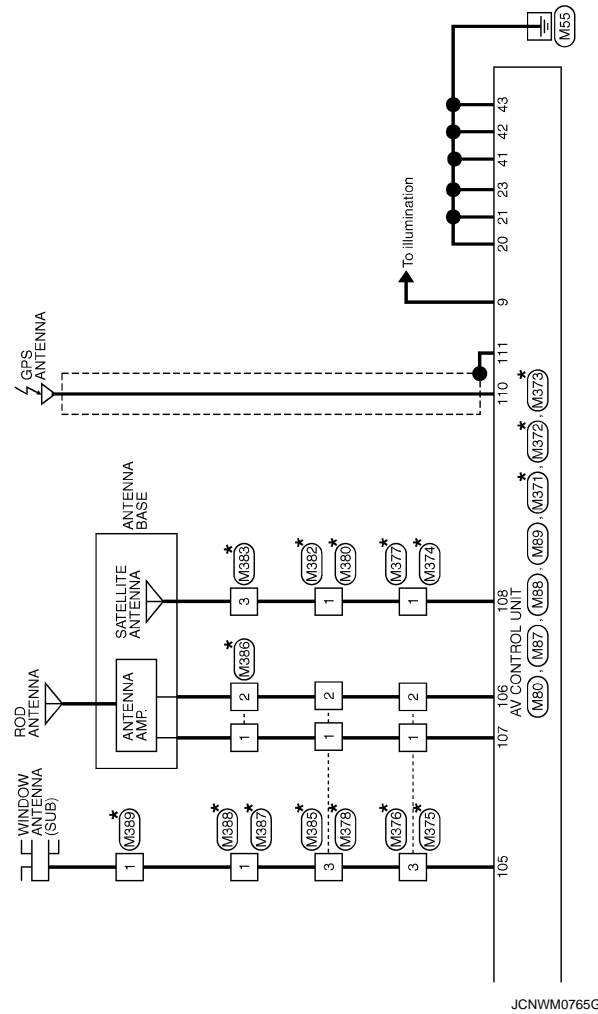
JCNWM0764GI

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

*: This connector is not shown in "Harness Layout".



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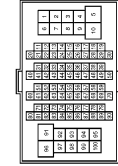
AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

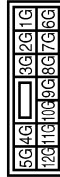
BOSE AUDIO WITH NAVIGATION

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH807W-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-

Connector No.	B8
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12G	GR	-

68	SB
69	SHIELD
70	W



Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
6	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FBR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (-)
17	O	MODE CHANGE SIGNAL
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	R	SOUND SIGNAL FRONT SOLAWKER RH (-)
28	G	SOUND SIGNAL CENTER (-)

31	W	AMP. ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	BR	SOUND SIGNAL FRONT SOLAWKER RH (+)

JCNWM0766G1

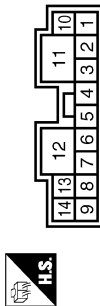
AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA1PFR-SJA2



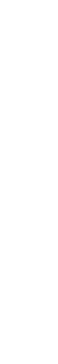
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (+)
3	V	SOUND SIGNAL REAR DOOR RH (-)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
6	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



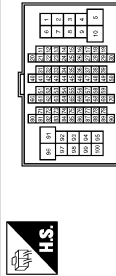
Terminal No.	Color of Wire	Signal Name [Specification]
13	L	
14	W	

12	B	GND
13	Y	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
14	R	SOUND SIGNAL WOOFER (-)



Terminal No.	Color of Wire	Signal Name [Specification]
12	B	GND
13	Y	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
14	R	SOUND SIGNAL WOOFER (-)

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
99	O	
100	L	

Connector No.	B48
Connector Name	REAR SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	W	BATTERY

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-N58



Terminal No.	Color of Wire	Signal Name [Specification]
18	L	
17	O	

Connector No.	B51
Connector Name	WOOFER
Connector Type	RS08FG1-PR



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	W	BATTERY

Connector No.	B230
Connector Name	REAR SQUAWKER RH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

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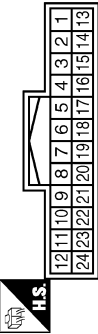
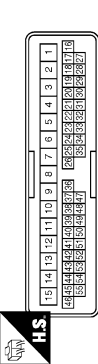

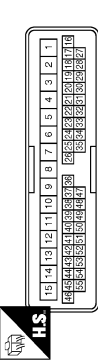

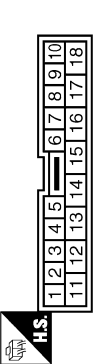

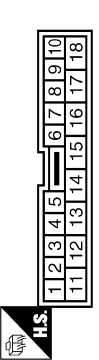
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AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION

<table border="1"> <tr><td>Connector No.</td><td>B243</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH24PW-NH</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>13</td><td>L</td><td>-</td></tr> <tr><td>14</td><td>W</td><td>-</td></tr> </table>	Connector No.	B243	Connector Name	WIRE TO WIRE	Connector Type	TH24PW-NH	Terminal No.	Color of Wire	Signal Name [Specification]	13	L	-	14	W	-	<table border="1"> <tr><td>Connector No.</td><td>D1</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH40FW-CS15</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>4</td><td>W</td><td>-</td></tr> <tr><td>5</td><td>L</td><td>-</td></tr> </table>	Connector No.	D1	Connector Name	WIRE TO WIRE	Connector Type	TH40FW-CS15	Terminal No.	Color of Wire	Signal Name [Specification]	4	W	-	5	L	-	<table border="1"> <tr><td>Connector No.</td><td>D4</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)</td></tr> <tr><td>Connector Type</td><td>NS02FBR-CS</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>L</td><td>-</td></tr> <tr><td>2</td><td>W</td><td>-</td></tr> </table>	Connector No.	D4	Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)	Connector Type	NS02FBR-CS	Terminal No.	Color of Wire	Signal Name [Specification]	1	L	-	2	W	-	<table border="1"> <tr><td>Connector No.</td><td>D31</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH40FW-CS15</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>7</td><td>R</td><td>-</td></tr> <tr><td>8</td><td>BR</td><td>-</td></tr> </table>	Connector No.	D31	Connector Name	WIRE TO WIRE	Connector Type	TH40FW-CS15	Terminal No.	Color of Wire	Signal Name [Specification]	7	R	-	8	BR	-
Connector No.	B243																																																														
Connector Name	WIRE TO WIRE																																																														
Connector Type	TH24PW-NH																																																														
Terminal No.	Color of Wire	Signal Name [Specification]																																																													
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Terminal No.	Color of Wire	Signal Name [Specification]																																																													
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Terminal No.	Color of Wire	Signal Name [Specification]																																																													
7	R	-																																																													
8	BR	-																																																													
<table border="1"> <tr><td>Connector No.</td><td>D34</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)</td></tr> <tr><td>Connector Type</td><td>NS02FBR-CS</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>BR</td><td>-</td></tr> <tr><td>2</td><td>R</td><td>-</td></tr> </table>	Connector No.	D34	Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)	Connector Type	NS02FBR-CS	Terminal No.	Color of Wire	Signal Name [Specification]	1	BR	-	2	R	-	<table border="1"> <tr><td>Connector No.</td><td>D51</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TK10MW-NS8</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>16</td><td>Y</td><td>- [With BOSE audio]</td></tr> <tr><td>17</td><td>G</td><td>- [With BOSE audio]</td></tr> </table>	Connector No.	D51	Connector Name	WIRE TO WIRE	Connector Type	TK10MW-NS8	Terminal No.	Color of Wire	Signal Name [Specification]	16	Y	- [With BOSE audio]	17	G	- [With BOSE audio]	<table border="1"> <tr><td>Connector No.</td><td>D56</td></tr> <tr><td>Connector Name</td><td>REAR DOOR SPEAKER LH</td></tr> <tr><td>Connector Type</td><td>NS02FBR-CS</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>Y</td><td>-</td></tr> <tr><td>2</td><td>G</td><td>-</td></tr> </table>	Connector No.	D56	Connector Name	REAR DOOR SPEAKER LH	Connector Type	NS02FBR-CS	Terminal No.	Color of Wire	Signal Name [Specification]	1	Y	-	2	G	-	<table border="1"> <tr><td>Connector No.</td><td>D71</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TK10MW-NS8</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>16</td><td>L</td><td>-</td></tr> <tr><td>17</td><td>Y</td><td>-</td></tr> </table>	Connector No.	D71	Connector Name	WIRE TO WIRE	Connector Type	TK10MW-NS8	Terminal No.	Color of Wire	Signal Name [Specification]	16	L	-	17	Y	-
Connector No.	D34																																																														
Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)																																																														
Connector Type	NS02FBR-CS																																																														
Terminal No.	Color of Wire	Signal Name [Specification]																																																													
1	BR	-																																																													
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Connector No.	D51																																																														
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Terminal No.	Color of Wire	Signal Name [Specification]																																																													
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Terminal No.	Color of Wire	Signal Name [Specification]																																																													
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17	Y	-																																																													

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AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

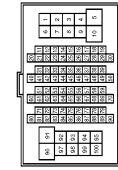
BOSE AUDIO WITH NAVIGATION

Connector No.	D76
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS2ZFB-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TK8GFW-CS16-TM4



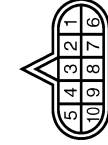
Terminal No.	Color of Wire	Signal Name [Specification]
59	O	-
93	Y	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB01FW



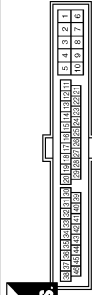
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	E11
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



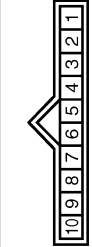
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10



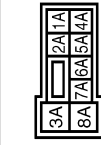
Terminal No.	Color of Wire	Signal Name [Specification]
31	R	-

Connector No.	F151
Connector Name	TSM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FBGY



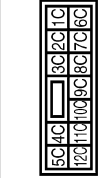
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-M2



Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	V	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

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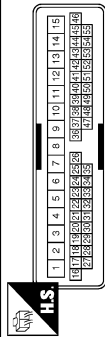
AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

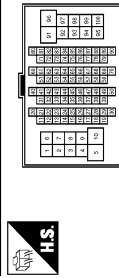
BOSE AUDIO WITH NAVIGATION

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH20MW-CS15



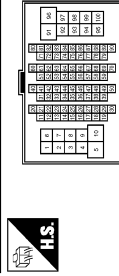
Terminal No.	Color of Wire	Signal Name [Specification]
4	P	-
5	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
59	V	-
93	Y	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH20MW-CS18-TM4



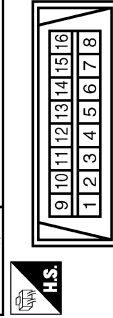
Terminal No.	Color of Wire	Signal Name [Specification]
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SB	-
67	V	-

Connector No.	M13
Connector Name	FRONT SQUAWKER LH
Connector Type	TK02FBR



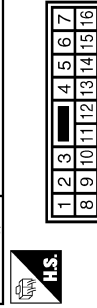
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS1(BMW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	V	-
4	LG	-
5	Y	-
6	G	-
7	L	-
11	V	-
12	SB	-
13	Y	-
14	Y	-

68	SB
69	SHIELD
70	V

15	LG
16	P

JCNWM0770GI

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION

Connector No.	M36	Connector No.	M66	Connector No.	M63	Connector No.	M67
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)	Connector Name	UNIFIED METER AND A/C AMP.	Connector Name	CENTER SPEAKER	Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TK08FGT-IV	Connector Type	TH46FW-NH	Connector Type	TK02FBR	Connector Type	TH42FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
31	L	-
33	B	-

Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M69	Connector No.	M75	Connector No.	M72	Connector No.	M75
Connector Name	BACK-UP LAMP RELAY	Connector Name	DISPLAY UNIT (WITH NAVI)	Connector Name	MULTIFUNCTION SWITCH	Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	MS02FL-M2	Connector Type	TH24FW-NH	Connector Type	TH16FW-NH	Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
3	R	-
5	W	-
3	LG	-
5	O	-

Terminal No.	Color of Wire	Signal Name [Specification]
12	B	GND
11	Y	BATTERY
10	V	ACC
9	W	ACC
8	LG	AV COMM (H)
7	BR	AV COMM (L)
6	W	SW GND
5	BR	DISK EJECT SIGNAL
4	W	SHIELD
3	W	RGB (G: GREEN) SIGNAL
2	R	HP
1	B	RGB AREA (YS) SIGNAL
13	B	COMM (CONT->DISP)
14	B	GND

Terminal No.	Color of Wire	Signal Name [Specification]
15	G	AUX IMAGE SIGNAL
17	B	RGB (R: RED) SIGNAL
18	R	RGB (B: BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

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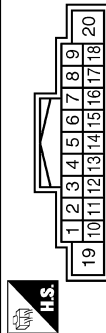
AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

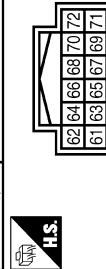
BOSE AUDIO WITH NAVIGATION

Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-GSZ



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	AMP ON SIGNAL
2	P	SOUND SIGNAL FRONT LH (+)
3	L	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	SB	SOUND SIGNAL REAR LH (-)
6	P	STRG SW A
7	V	ACC
8	R	ILLUMINATION
9	R	SHIELD
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (+)
12	G	SOUND SIGNAL FRONT RH (-)

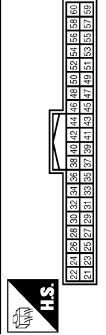
Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
61	B	RGB (R, RED) SIGNAL
62	W	RGB (G, GREEN) SIGNAL
63	R	RGB (B, BLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (YS) SIGNAL
68	R	HP
69	W	VP
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

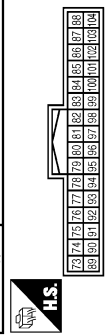
13	BR	SOUND SIGNAL REAR RH (+)
14	Y	SOUND SIGNAL REAR RH (-)
15	B	STRG SW GND
16	L	STRG SW B
18	Y	BATTERY
20	B	GND

Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	V	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
29	G	IGNITION
30	V	PARKING BRAKE
31	V	REVERSE
32	O	REVERSE

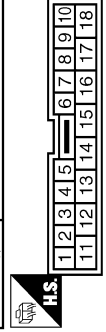
Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
73	W	Post SOUND SIGNAL LH (+)
74	R	Post SOUND SIGNAL RH (+)
75	B	Post SOUND SIGNAL RH (+)
76	B	Post SOUND SIGNAL RH (+)
77	R	Post SOUND SIGNAL RH (+)
78	R	Post SOUND SIGNAL RH (+)
79	R	Post SOUND SIGNAL RH (+)
80	B	Post SOUND SIGNAL RH (+)
81	B	Post SOUND SIGNAL RH (+)
82	B	Post SOUND SIGNAL RH (+)
83	B	Post SOUND SIGNAL RH (+)
84	B	Post SOUND SIGNAL RH (+)
85	B	Post SOUND SIGNAL RH (+)
86	B	Post SOUND SIGNAL RH (+)
87	R	Post SOUND SIGNAL RH (+)
88	W	Post SOUND SIGNAL RH (+)
89	W	Post SOUND SIGNAL RH (+)
90	W	Post SOUND SIGNAL RH (+)
91	W	Post SOUND SIGNAL RH (+)
92	W	Post SOUND SIGNAL RH (+)
93	W	Post SOUND SIGNAL RH (+)
94	W	Post SOUND SIGNAL RH (+)
95	W	Post SOUND SIGNAL RH (+)
96	G	SW GND
97	BR	SW GND
98	BR	SW GND
99	BR	SW GND
100	BR	SW GND
101	BR	SW GND
102	BR	SW GND
103	B	AUX SOUND SIGNAL RH (+)

38	R	VEHICLE SPEED (8-PUL/SE)
41	B	CONTROL SIGNAL 1
42	B	CONTROL SIGNAL 2
43	CR	CONTROL SIGNAL 3
44	SS	MODE CHANGE SIGNAL
46	G	AV COMM (H)
48	G	AV COMM (H)
49	R	AV COMM (L)
50	LG	AV COMM (H)
51	V	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSS



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	--[With NAVI]
3	G	--[With NAVI]
4	SHIELD	--[With NAVI]

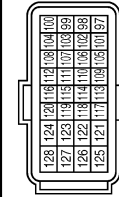
AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

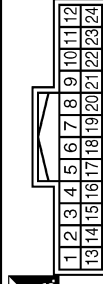
BOSE AUDIO WITH NAVIGATION

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-RZ8-R-LH-Z



Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-L1
114	L	VEHCAN-H1

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FVH-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	AGC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod->iPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	R	iPod SOUND SIGNAL RH (+)
13	W	iPod SOUND SIGNAL LH (-)

Connector No.	M114
Connector Name	FRONT SQUAWKER RH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

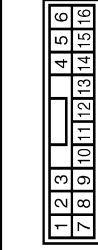
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	W	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	R	iPod SOUND SIGNAL RH (+)
8	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

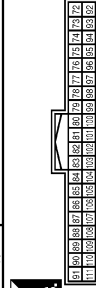


Terminal No.	Color of Wire	Signal Name [Specification]
99	V	- [With BOSE audio]
100	SB	- [With BOSE audio]

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP18FGY



Connector No.	M122
Connector Name	ECM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

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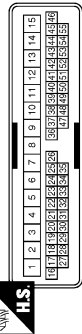







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AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION

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Connector No.	M124																																										
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Connector Type	TH40MW-CS15																																										
Terminal No.	Color of Wire	Signal Name [Specification]																																									
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8	LG	-																																									
Connector No.	M371																																										
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Connector No.	M154																																										
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14	W	-																																									
15	L	-																																									
17	BR	-																																									
<table border="1"> <tr><td>Connector No.</td><td>M372</td></tr> <tr><td>Connector Name</td><td>AV CONTROL UNIT (WITH NAVI)</td></tr> <tr><td>Connector Type</td><td>FAKRA JACK</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>108</td><td>-</td><td>SAEILLITE ANTENNA</td></tr> </table>	Connector No.	M372	Connector Name	AV CONTROL UNIT (WITH NAVI)	Connector Type	FAKRA JACK	Terminal No.	Color of Wire	Signal Name [Specification]	108	-	SAEILLITE ANTENNA	<table border="1"> <tr><td>Connector No.</td><td>M375</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>GT13SC-2/1S-HU</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>-</td><td>-</td></tr> <tr><td>2</td><td>-</td><td>-</td></tr> <tr><td>3</td><td>-</td><td>-</td></tr> </table>	Connector No.	M375	Connector Name	WIRE TO WIRE	Connector Type	GT13SC-2/1S-HU	Terminal No.	Color of Wire	Signal Name [Specification]	1	-	-	2	-	-	3	-	-												
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Connector Name	AV CONTROL UNIT (WITH NAVI)																																										
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1	-	-																																									
2	-	-																																									
3	-	-																																									
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Connector Name	AV CONTROL UNIT (WITH NAVI)																																										
Connector Type	GT5-1S-HU																																										
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Terminal No.	Color of Wire	Signal Name [Specification]																																									
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AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION

Connector No.	M376	WIRE TO WIRE		
Connector Name	GT13SCN-2/1PP-HU			
Connector Type				
Terminal No.	Color of Wire	Signal Name [Specification]		
1	-	-		
2	-	-		
3	-	-		

Connector No.	M377	WIRE TO WIRE		
Connector Name	GT16C-1PP-HU			
Connector Type				
Terminal No.	Color of Wire	Signal Name [Specification]		
1	-	-		

Connector No.	M378	WIRE TO WIRE		
Connector Name	GT13SC-2/1S-HU			
Connector Type				
Terminal No.	Color of Wire	Signal Name [Specification]		
1	-	-		
2	-	-		
3	-	-		

Connector No.	M380	WIRE TO WIRE		
Connector Name	GT16-1S-HU			
Connector Type				
Terminal No.	Color of Wire	Signal Name [Specification]		
1	-	-		

Connector No.	M382	WIRE TO WIRE		
Connector Name	GT16C-1PP-HU			
Connector Type				
Terminal No.	Color of Wire	Signal Name [Specification]		
1	-	-		

Connector No.	M383	ANTENNA BASE		
Connector Name	GT16C-1PP-HU			
Connector Type				
Terminal No.	Color of Wire	Signal Name [Specification]		
3	-	SAETLLITE ANTENNA		

Connector No.	M385	WIRE TO WIRE		
Connector Name	GT13SCN-2/1PP-HU			
Connector Type				
Terminal No.	Color of Wire	Signal Name [Specification]		
1	-	-		
2	-	-		
3	-	-		

Connector No.	M386	ANTENNA BASE		
Connector Name	GT13SSN-1/1PP-HU			
Connector Type				
Terminal No.	Color of Wire	Signal Name [Specification]		
1	-	ANTENNA AMP. ON SIGNAL		
2	-	AM-FM MAIN		

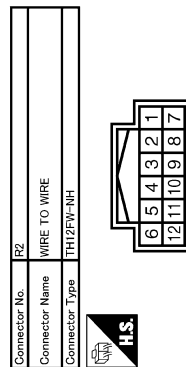
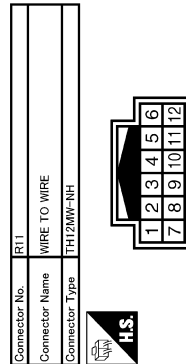
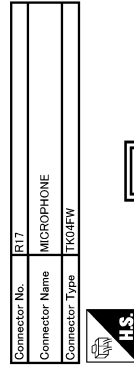
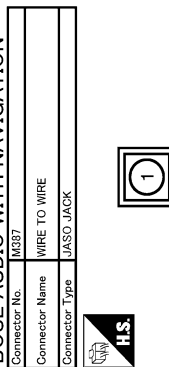
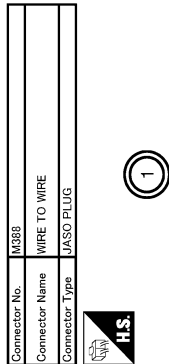
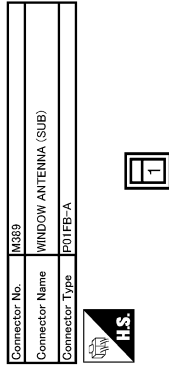
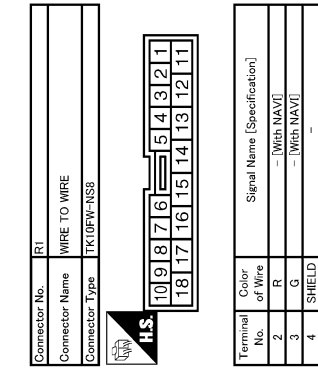
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[BOSE AUDIO WITH NAVIGATION]



JCNWM0776GI

WITH REAR VIEW MONITOR

WITH REAR VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR -

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Click here to view the eWD.

NOTE:

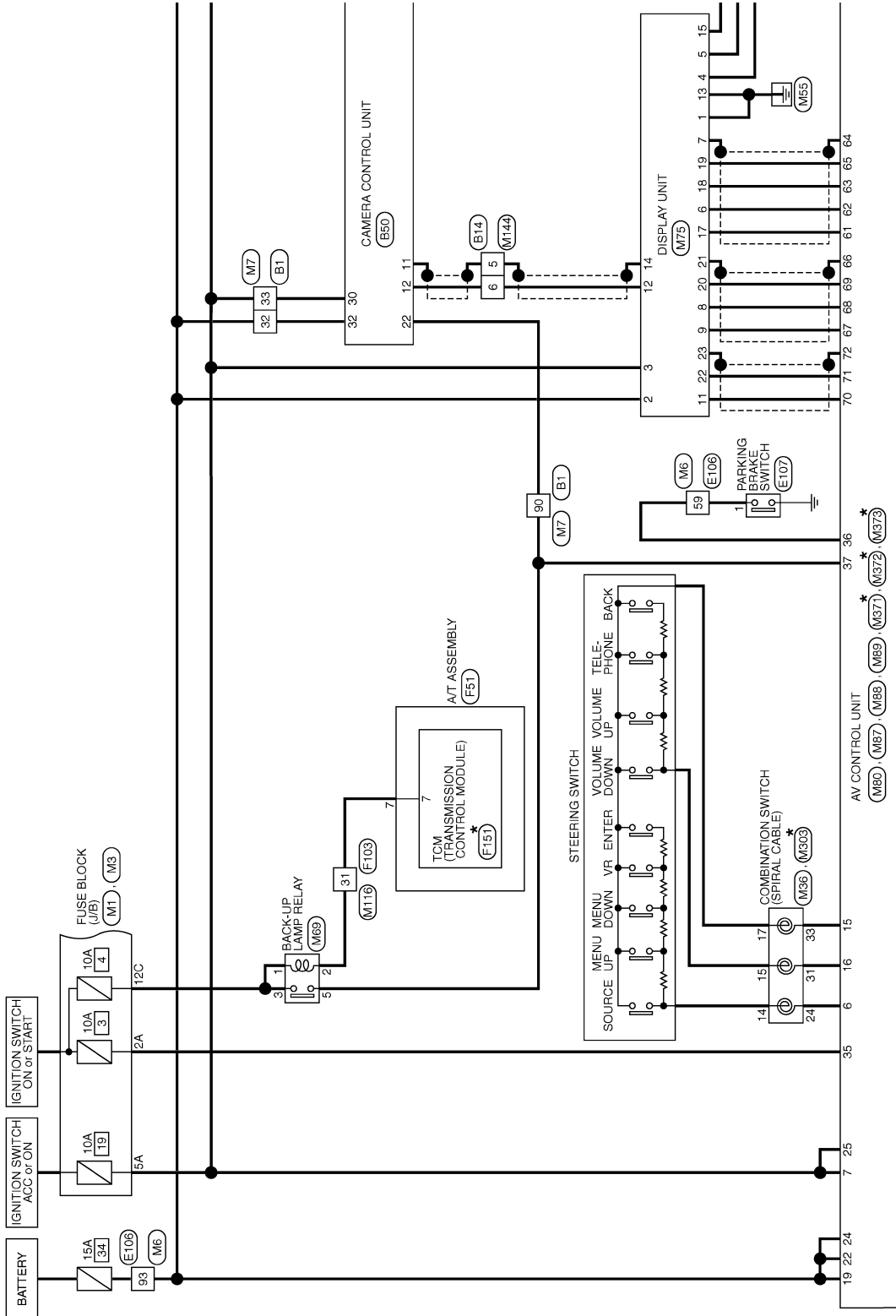
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[BOSE AUDIO WITH NAVIGATION]

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR



*: This connector is not shown in "Harness Layout".

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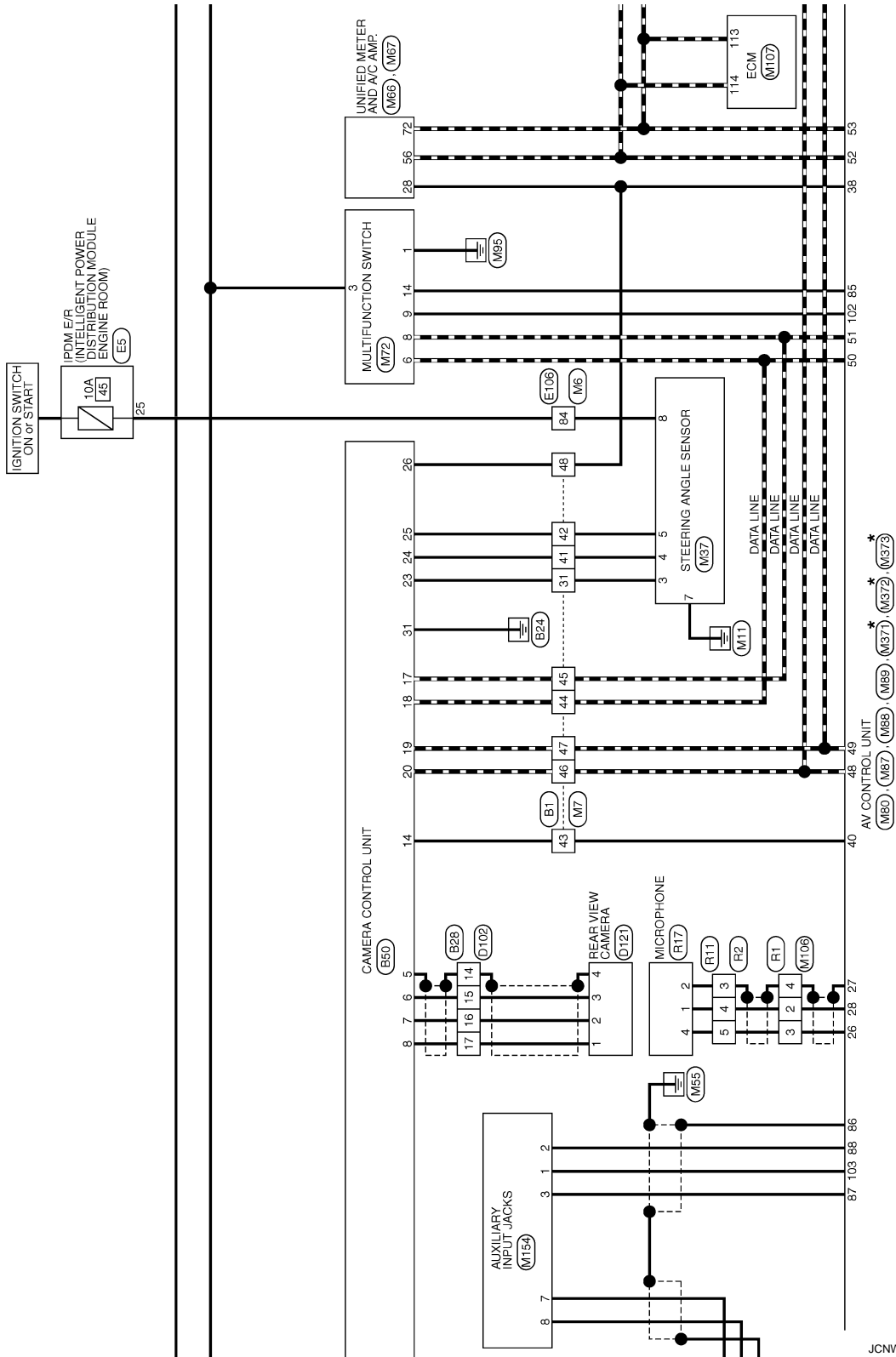
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[BOSE AUDIO WITH NAVIGATION]

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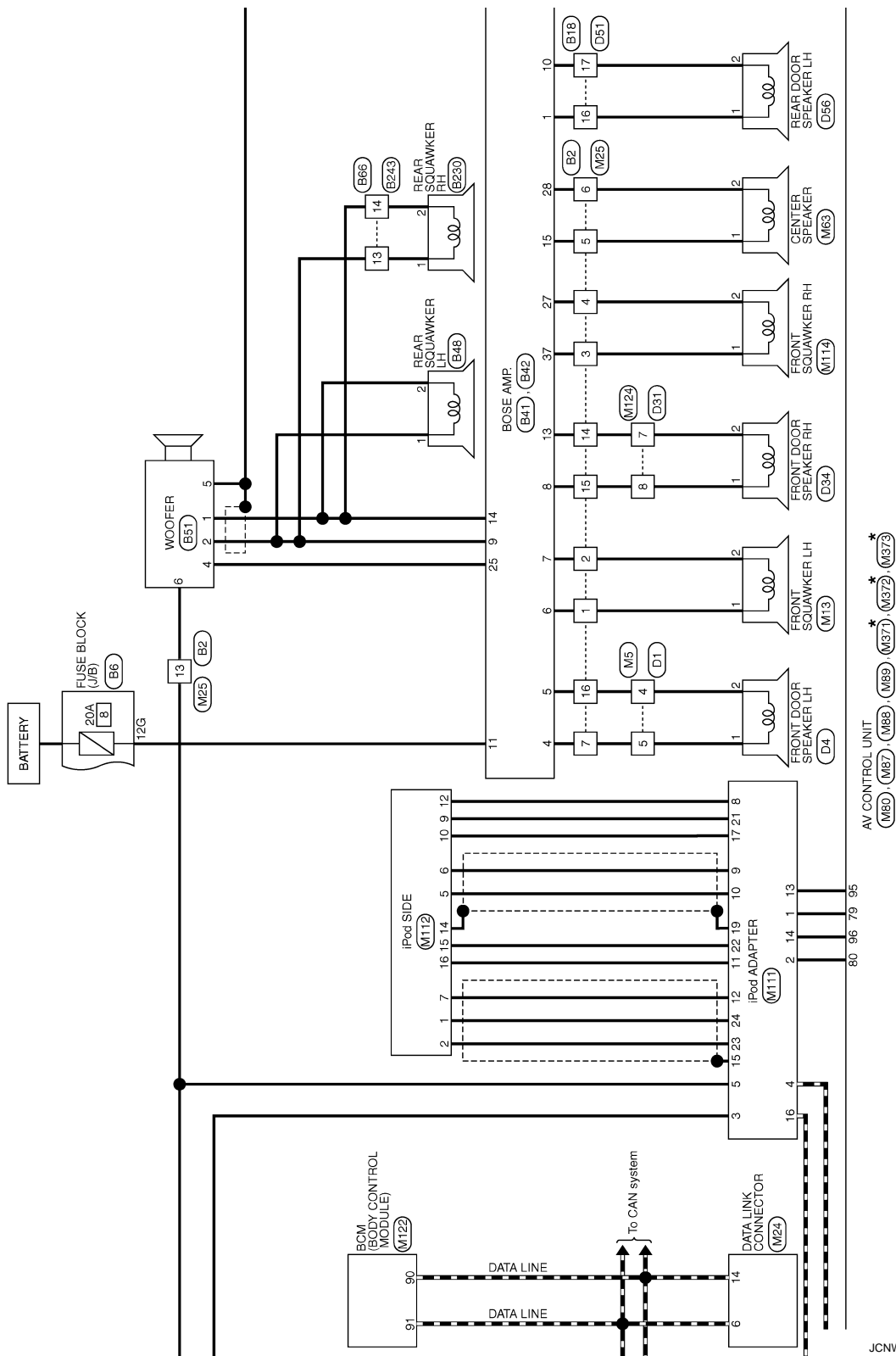
*: This connector is not shown in "Harness Layout".

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[BOSE AUDIO WITH NAVIGATION]

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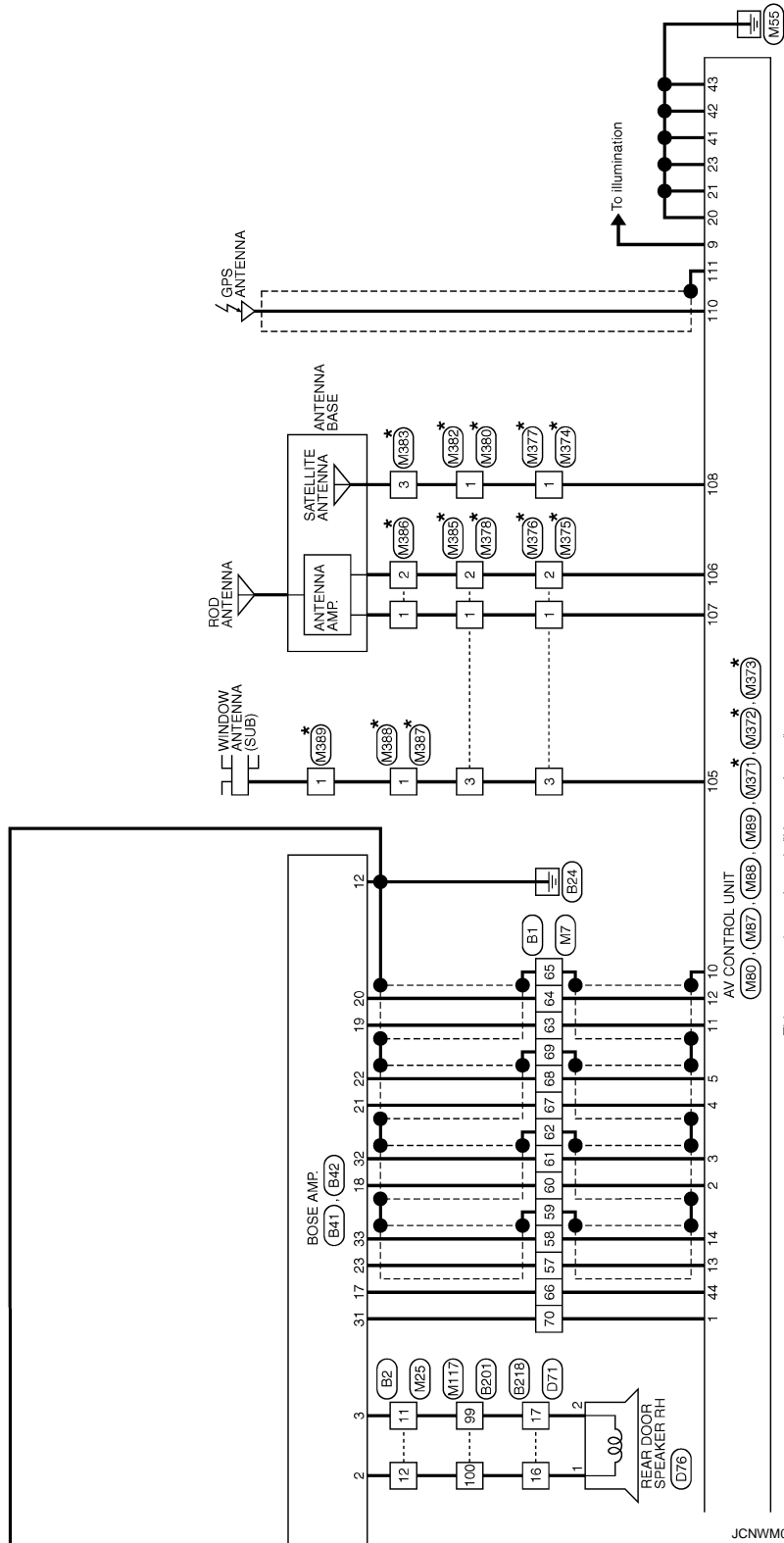
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[BOSE AUDIO WITH NAVIGATION]



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* This connector is not shown in "Harness Layout".

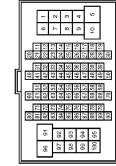
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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	L	-
33	LG	-
41	BR	-
42	R	-
43	W	-
44	LG	- [Without around view monitor]
45	V	- [Without around view monitor]
46	G	- [With base audio or with NAVI]
47	R	- [With base audio or with NAVI]
48	V	-

Connector No.	B8
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBF-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12G	GR	-

57	BR	-
58	Y	-
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
90	O	-

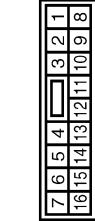
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
8	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	-
6	W	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
18	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

15	LG	-
16	P	-

Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	W	- [Without around view monitor]
16	B	- [Without around view monitor]
17	R	- [Without around view monitor]

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AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA1PFR-SG44

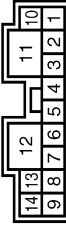


Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (+)
17	O	MODE CHANGE SIGNAL
18	P	SOUND SIGNAL FRONT LH (+)
19	R	SOUND SIGNAL FRONT RH (+)
20	G	SOUND SIGNAL REAR LH (+)
21	V	SOUND SIGNAL REAR RH (+)
22	SB	SOUND SIGNAL REAR LH (-)
23	BR	SOUND SIGNAL REAR RH (-)
25	GR	WOOFER AMP. ON SIGNAL
27	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (-)

Connector No.	B48
Connector Name	REAR SQUAWKER LH
Connector Type	TK02FR



31	W	AMP. ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	BR	SOUND SIGNAL FRONT SQUAWKER RH (+)



Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA1PFR-SU42

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (+)
3	V	SOUND SIGNAL REAR DOOR RH (-)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
6	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL WOOFER (+)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

22	O	REVERSE
23	L	SENSOR SIGNAL 1
24	BR	SENSOR SIGNAL 2
25	R	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	L	BATTERY



Connector No.	B51
Connector Name	WOOFER
Connector Type	RS0DFGY-PR

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	W	CAMERA IMAGE SIGNAL
7	B	CAMERA GND
8	R	CAMERA POWER SUPPLY
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
14	W	CONNECTION RECOGNITION
17	V	AV GNDM (L) [With base audio or with NAVI]
18	LG	AV GNDM (H) [With base audio or with NAVI]
19	R	AV GNDM (L) [With base audio or with NAVI]
20	G	AV GNDM (H) [With base audio or with NAVI]

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	W	BATTERY

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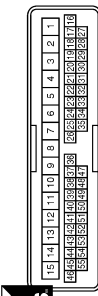
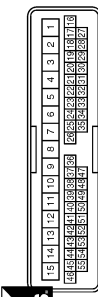
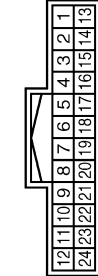
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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	Connector Name	Connector Type	Terminal No.	Color of Wire	Signal Name [Specification]
B66	WIRE TO WIRE	TH24WV-NH	1	L	
			2	W	
B201	WIRE TO WIRE	TH40FW-CS16-TM4	99	O	
			100	L	
B218	WIRE TO WIRE	TK10FW-NS8	16	L	
			17	O	[With BOSE audio]
B240	REAR SPEAKER RH	TK02FBR	1	L	
			2	W	
D1	WIRE TO WIRE	TH40FW-CS15	1	L	
			2	W	
D4	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)	NS02FBR-CS	1	L	
			2	W	



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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No. D34	Connector No. D51	Connector No. D71
Connector Name FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE
Connector Type NS02FBR-CS	Connector Type TK10MW-NS	Connector Type TK10MW-NS

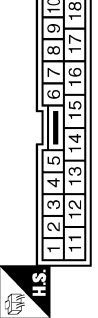
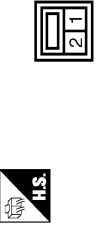
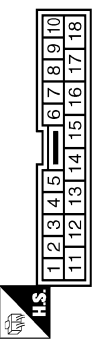
Terminal No. 1	Color of Wire BR	Signal Name [Specification]
2	R	

Terminal No. 1	Color of Wire Y	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

Terminal No. 1	Color of Wire Y	Signal Name [Specification]
2	G	

Terminal No. 1	Color of Wire L	Signal Name [Specification]
16	L	
17	Y	

Terminal No. 1	Color of Wire L	Signal Name [Specification]
2	Y	



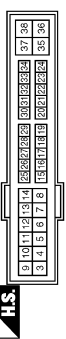
Connector No. D76	Connector No. D102	Connector No. E5
Connector Name REAR DOOR SPEAKER RH	Connector Name WIRE TO WIRE	Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type NS02FBR-CS	Connector Type TH24FW-NH	Connector Type TH2DFW-CS12-M4-1V

Terminal No. 1	Color of Wire BR	Signal Name [Specification]
2	R	

Terminal No. 1	Color of Wire Y	Signal Name [Specification]
12	Y	
13	G	
14	B	
15	W	
16	Y	
17	B	
18	W	
19	W	
20	W	
21	W	
22	W	
23	W	
24	W	

Terminal No. 1	Color of Wire L	Signal Name [Specification]
2	Y	

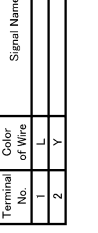
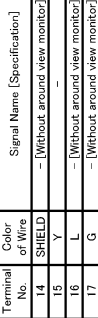
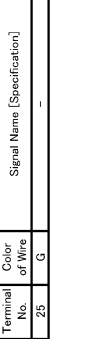
Terminal No. 1	Color of Wire L	Signal Name [Specification]
2	Y	



Terminal No. 1	Color of Wire G	Signal Name [Specification]
2	L	CAMERA POWER SUPPLY
3	Y	CAMERA GND
4	SHIELD	CAMERA IMAGE SIGNAL SHIELD

Terminal No. 1	Color of Wire G	Signal Name [Specification]
2	L	
3	Y	
4	SHIELD	

Terminal No. 1	Color of Wire G	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	Y	
16	L	- [Without around view monitor]
17	G	- [Without around view monitor]



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AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10

Terminal No.	Color of Wire	Signal Name [Specification]
31	R	

Connector No.	F51
Connector Name	A-7 ASSEMBLY
Connector Type	RK10FG-DCY

Terminal No.	Color of Wire	Signal Name [Specification]
7	R	

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB01FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	THB0FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
59	O	
84	G	
93	Y	

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15

Terminal No.	Color of Wire	Signal Name [Specification]
4	P	
5	L	

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS00FW-M2

Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	
5A	V	

Connector No.	F151
Connector Name	TOM (TRANSMISSION CONTROL MODULE)
Connector Type	SPI0FBGY

Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

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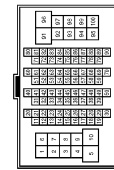
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[BOSE AUDIO WITH NAVIGATION]

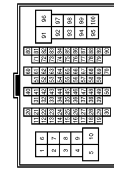
BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



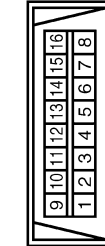
Terminal No.	Color of Wire	Signal Name [Specification]
59	V	
84	G	
93	Y	

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	
32	Y	
33	V	
41	BR	
42	R	
43	W	
44	LG	
45	V	
46	G	- [With base audio or with NAVI]
47	R	- [With base audio or with NAVI]
48	V	

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	
14	P	

57	BR	
58	Y	
59	SHIELD	
60	P	
61	L	
62	SHIELD	
63	R	
64	G	
65	SHIELD	
66	SB	
67	V	
68	SB	
69	SHIELD	
70	V	
90	O	



Connector No.	M13
Connector Name	FRONT SQUAWKER LH
Connector Type	TK02FBR

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

15	LG	
16	P	

Connector No.	M96
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-TV



Terminal No.	Color of Wire	Signal Name [Specification]
24	P	
31	L	
33	B	

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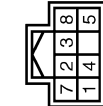
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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH82FW-NH



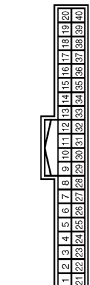
Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



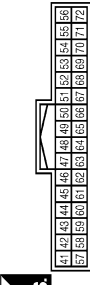
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH48FW-NH



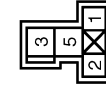
Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH42FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2

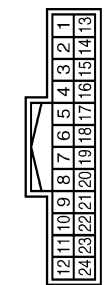


Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	V	ACC
4	SHIELD	SHIELD
5	R	AUX IMAGE GND
6	W	RGB (G: GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (YS) SIGNAL
11	BR	COMM (CONT->DISP)
12	W	CAMERA IMAGE SIGNAL

Terminal No.	Color of Wire	Signal Name [Specification]
13	B	GND
14	SHIELD	SHIELD
15	G	AUX IMAGE SIGNAL
17	B	RGB (R: RED) SIGNAL
18	R	RGB (B: BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

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AV

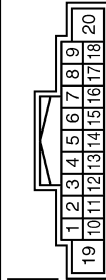
AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

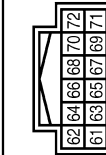
BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-GSZ



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	AMP. ON SIGNAL
2	P	SOUND SIGNAL FRONT LH (+)
3	L	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	SB	SOUND SIGNAL REAR LH (-)
6	P	STRG SW A
7	V	ACC
8	R	ILLUMINATION
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (+)
12	G	SOUND SIGNAL FRONT RH (-)

Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH

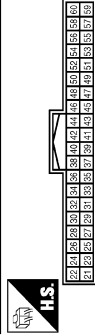


Terminal No.	Color of Wire	Signal Name [Specification]
61	B	RGB (R. RED) SIGNAL
62	W	RGB (G. GREEN) SIGNAL
63	R	RGB (B. BLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (YS) SIGNAL
68	R	HP
69	W	VP
70	BR	COMM. (CONT->DISP)
71	Y	COMM. (DISP->CONT)

13	BR	SOUND SIGNAL REAR RH (+)
14	Y	SOUND SIGNAL REAR RH (-)
15	B	STRG SW GND
16	L	STRG SW B
18	Y	BATTERY
20	B	GND

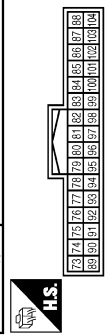


Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	V	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
35	G	IGNITION
36	V	PARKING BRAKE
37	O	REVERSE

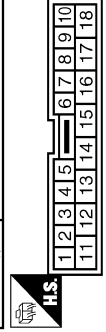
Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
79	R	iPod SOUND SIGNAL LH (+)
80	B	iPod SOUND SIGNAL RH (+)
85	SB	DISK EJECT SIGNAL
86	SHIELD	SHIELD
87	R	AUX SOUND SIGNAL LH (+)
88	W	AUX SOUND SIGNAL GND
95	W	iPod SOUND SIGNAL LH (-)
96	G	iPod SOUND SIGNAL RH (-)
102	BR	SW GND
103	B	AUX SOUND SIGNAL RH (+)

38	R	VEHICLE SPEED (8-PUL/SE)
40	W	CONNECTION RECOGNITION
41	B	CONTROL SIGNAL 1
42	B	CONTROL SIGNAL 2
43	GR	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
48	G	AV COMM (H)
49	R	AV COMM (L)
50	LG	AV COMM (H)
51	V	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSS



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	--[With NAVI]
3	G	--[With NAVI]
4	SHIELD	--[With NAVI]

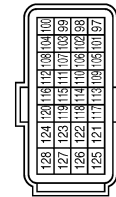
AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

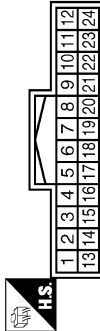
BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-RZ8-R-LH-Z



Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-L1
114	L	VEHCAN-H1

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	AGC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod->iPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	R	iPod SOUND SIGNAL RH (+)
13	W	iPod SOUND SIGNAL LH (-)

Connector No.	M114
Connector Name	FRONT SQUAWKER RH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	W	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	R	iPod SOUND SIGNAL RH (+)
8	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
99	V	- [With BOSE audio]
100	SB	- [With BOSE audio]

Connector No.	M122
Connector Name	ECM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

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AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY



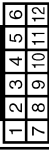
Terminal No.	Color of Wire	Signal Name [Specification]
14	W	
15	L	
17	BR	

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	A08FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	AUX SOUND SIGNAL RH (+)
2	W	AUX SOUND SIGNAL GND
3	R	AUX SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	TH12MPV-BH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	
6	W	

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MPV-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	
8	LG	

Connector No.	M374
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1		

Connector No.	M373
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT5-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
110		GPS ANTENNA
111	SHIELD	SHIELD

Connector No.	M372
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKRA JACK



Terminal No.	Color of Wire	Signal Name [Specification]
108		SAETLLITE ANTENNA

Connector No.	M371
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SH-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
105		FM SUB
106		AM-FM MAIN
107		ANTENNA AMP. ON SIGNAL

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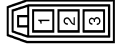
AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]



BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/IS-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M377
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU


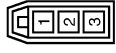
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/IS-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M383
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
3	-	SAETLLITE ANTENNA

Connector No.	M382
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU

Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M380
Connector Name	WIRE TO WIRE
Connector Type	GT16-1S-HU

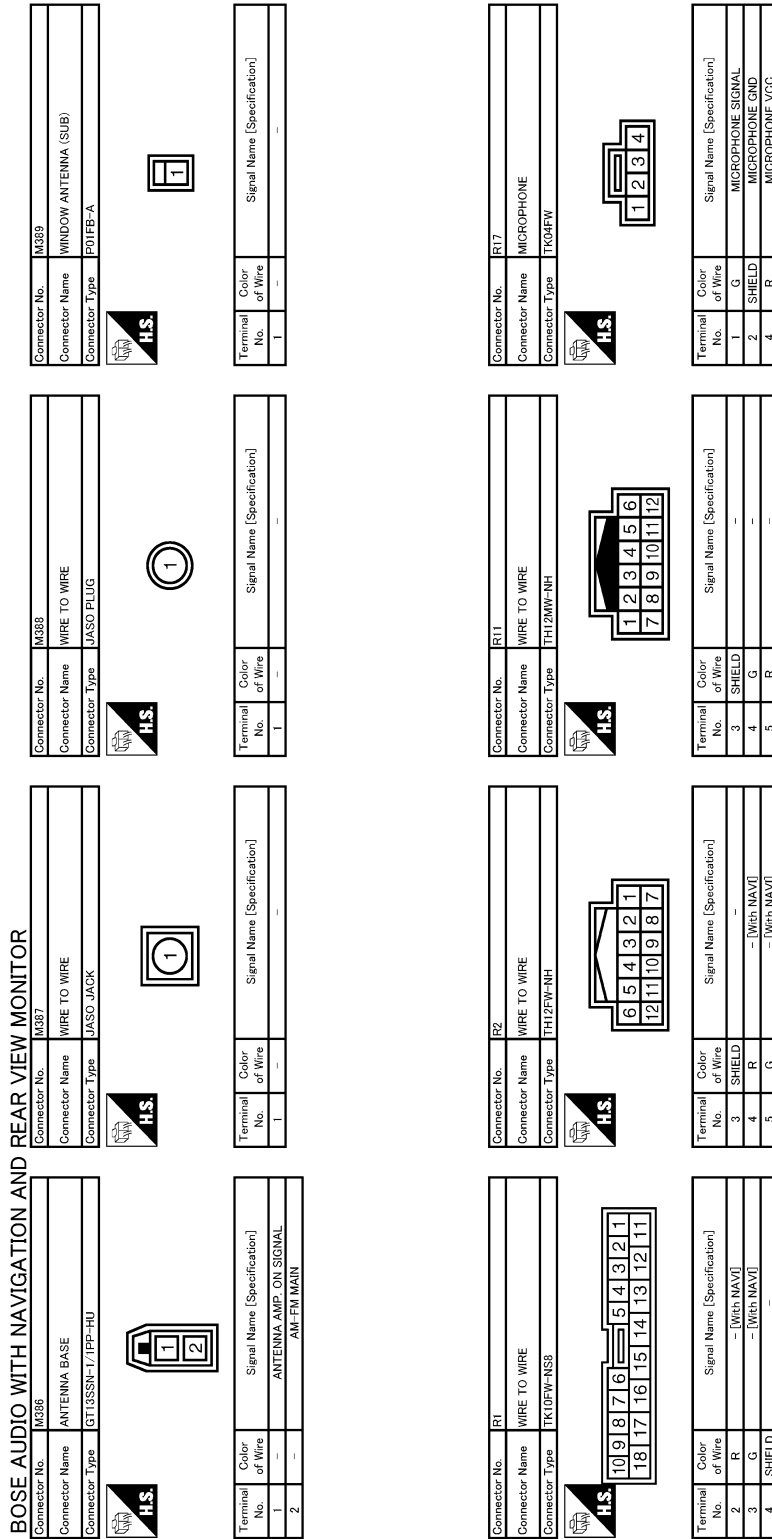
Terminal No.	Color of Wire	Signal Name [Specification]
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AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]



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WITH AROUND VIEW MONITOR

WITH AROUND VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR -

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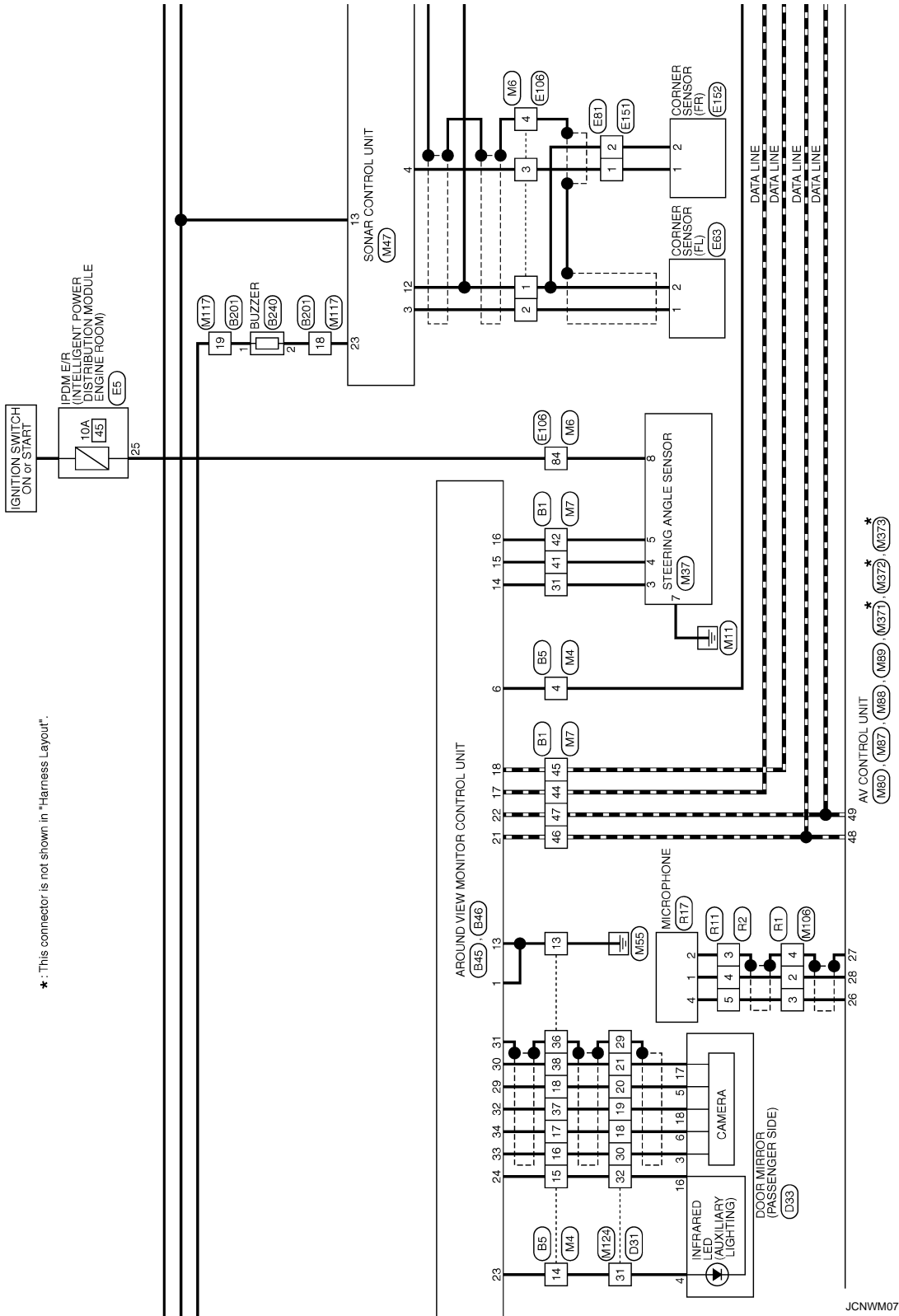
Click here to view the eWD.

NOTE:

AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]



*: This connector is not shown in "Harness Layout".

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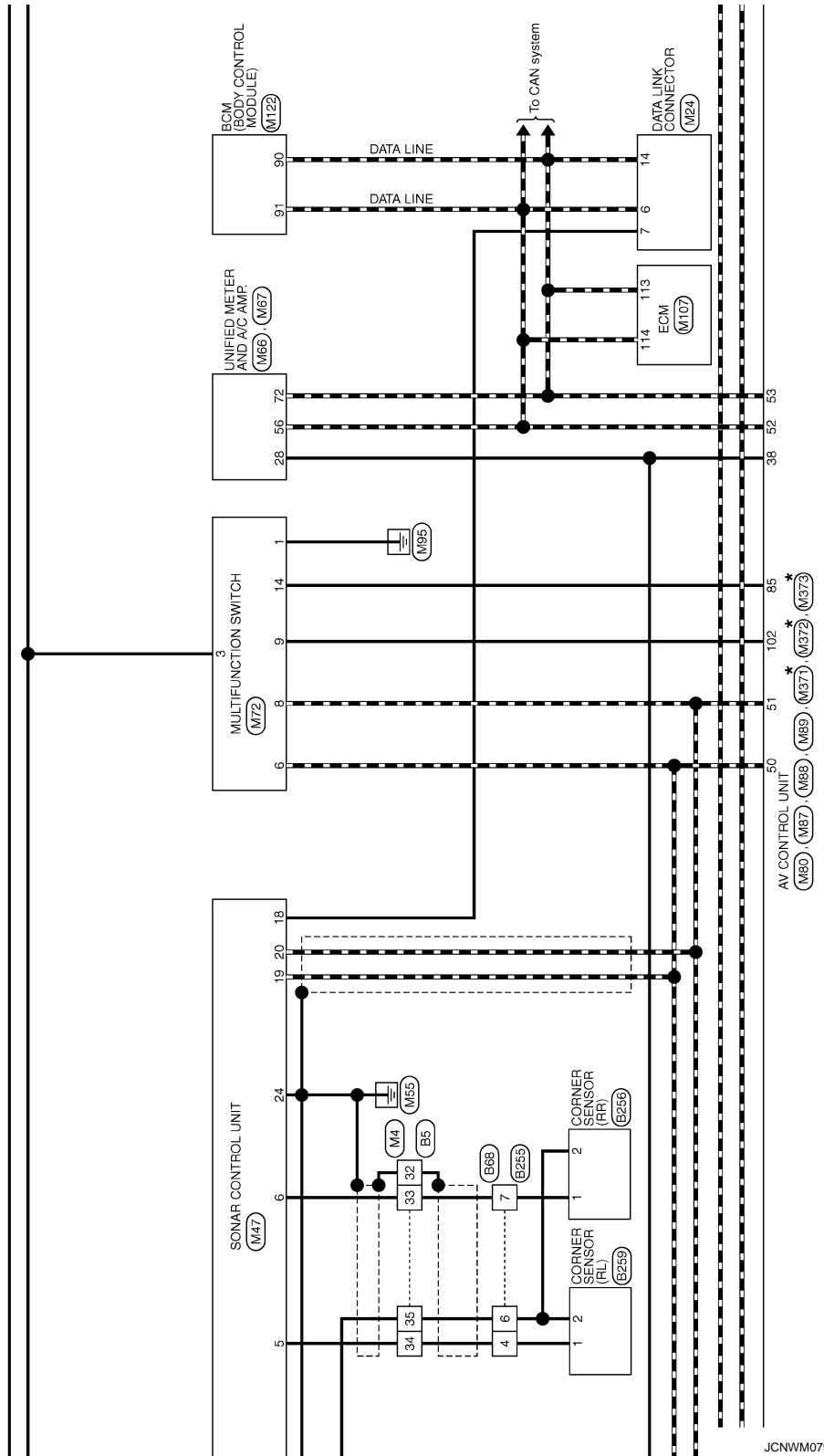
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AV CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

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*: This connector is not shown in "Harness Layout".

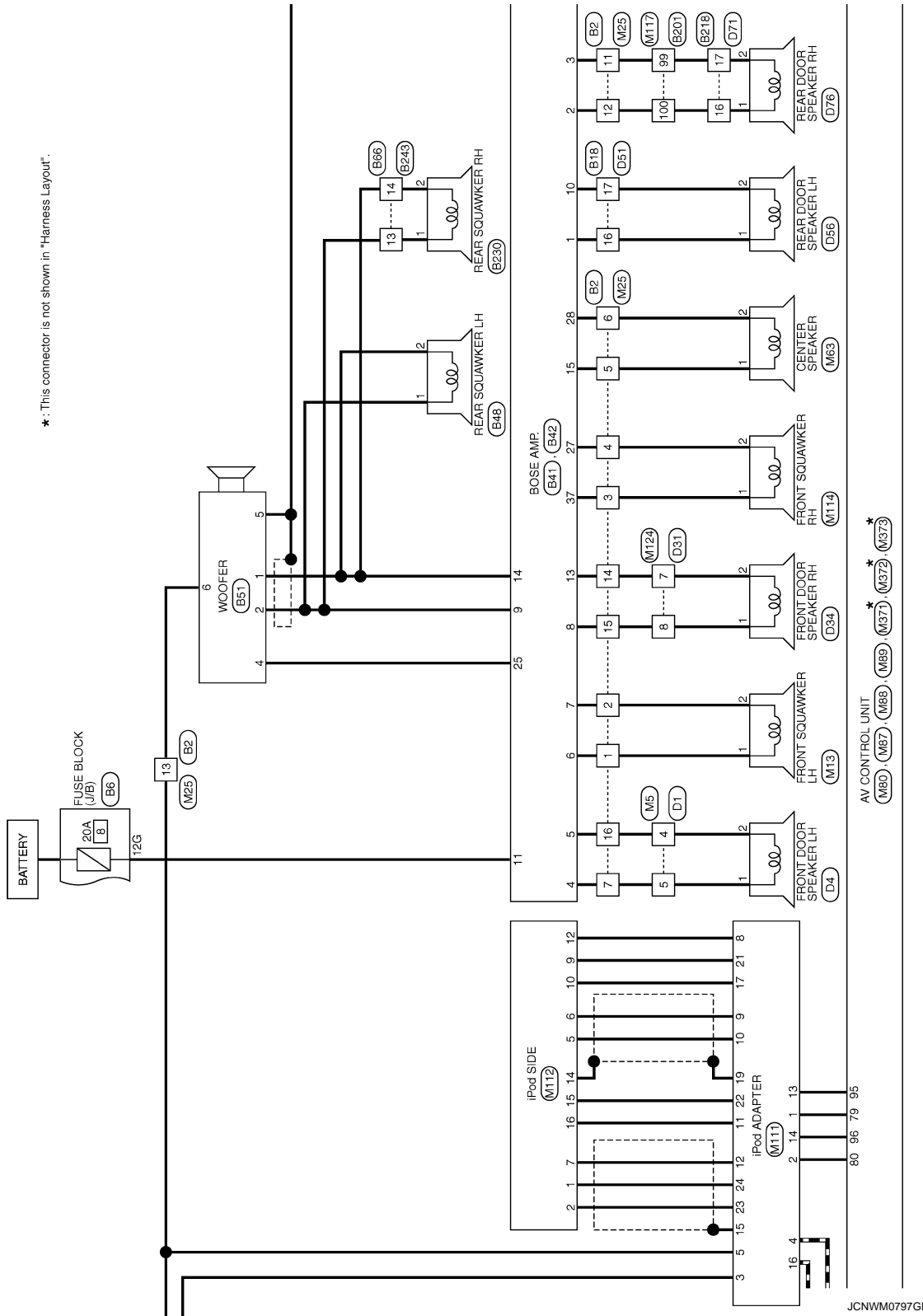


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AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]



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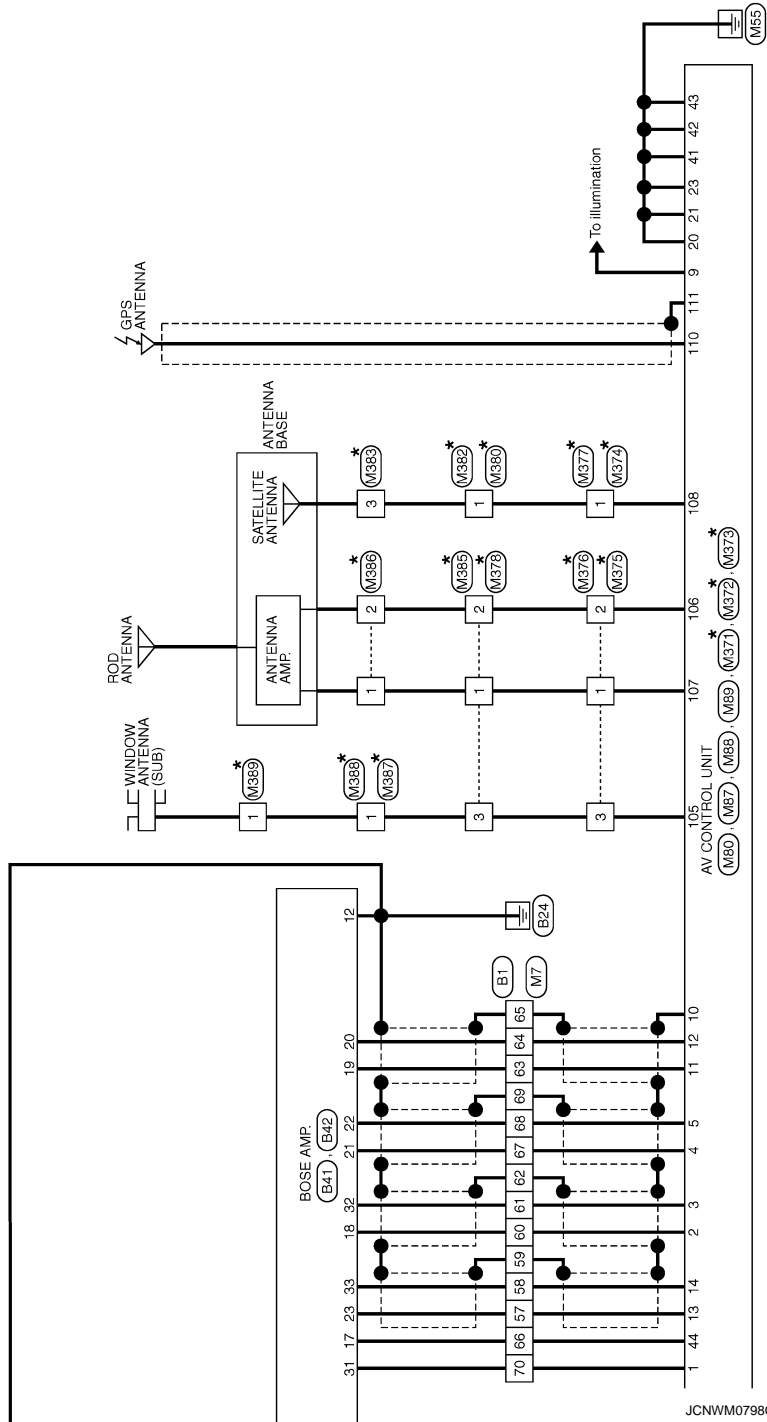
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[BOSE AUDIO WITH NAVIGATION]

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*: This connector is not shown in "Harness Layout".



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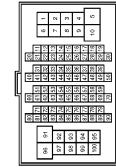
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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

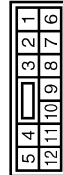
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
41	BR	-
42	R	-
44	G	- [With around view monitor]
45	Y	- [With around view monitor]
46	W	- [With around view monitor]
47	B	- [With around view monitor]
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-



Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
90	O	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
8	G	-
9	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
26	L	-
27	R	-
28	W	-
29	Y	-
30	BR	-
31	O	-
32	SHIELD	-
33	W	-
34	R	-
35	B	-
36	SHIELD	-
37	B	-
38	G	-

15	LG	-
16	P	-

Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	B	-
3	G	-
4	SHIELD	-
7	Y	-
8	R	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	P	-
3	GR	-
4	SB	-
13	B	-
14	LG	-
15	G	-
16	W	-
17	R	-
18	Y	-
25	SHIELD	-

Terminal No.	Color of Wire	Signal Name [Specification]
12G	GR	-

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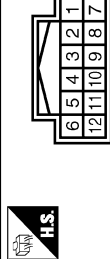
AV CONTROL UNIT

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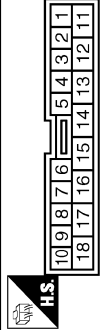
[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH27PW-RH



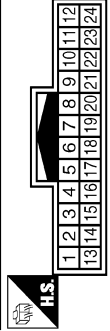
Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10PW-RSS



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	
6	W	

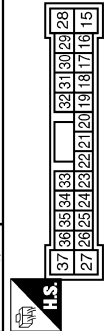
Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	[With BOSE audio]
17	G	[With BOSE audio]

Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-RH



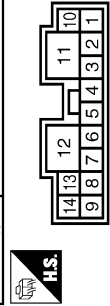
Terminal No.	Color of Wire	Signal Name [Specification]
13	BR	
14	R	[With around view monitor]
15	Y	[With around view monitor]
16	W	[With around view monitor]
17	L	[With around view monitor]
18	SHIELD	

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FBR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
31	W	AMP_ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	BR	SOUND SIGNAL FRONT SQUAWKER RH (+)

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA12FBR-SJA2



Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (+)
17	O	MODE CHANGE SIGNAL
18	P	SOUND SIGNAL FRONT LH (+)
19	R	SOUND SIGNAL FRONT RH (+)
20	G	SOUND SIGNAL FRONT LH (-)
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	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (+)

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (+)
3	V	SOUND SIGNAL REAR DOOR RH (-)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
6	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL WOOFER (+)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

12	B	GND
13	Y	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)
14	R	SOUND SIGNAL WOOFER (-)

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	B45
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
42	44	FRONT CAMERA IMAGE SIGNAL
43	50	FRONT CAMERA IMAGE GND
44	52	SHIELD
45	54	FRONT CAMERA GND
46	56	FRONT CAMERA COMM
47	58	FRONT CAMERA POWER SUPPLY
48	60	SIDE CAMERA LH COMM
49	62	SIDE CAMERA LH POWER SUPPLY
50	64	SHIELD
51	63	SIDE CAMERA LH IMAGE SIGNAL

52	W	SIDE CAMERA LH IMAGE GND
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Connector No.	B46
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	P	IGNITION
4	GR	ACC
5	G	ILLUMINATION
8	SB	VEHICLE SPEED (8-PULSE)
7	G	REVERSE
13	B	CONTROL SIGNAL
14	L	SENSOR SIGNAL 1
15	BR	SENSOR SIGNAL 2
16	R	SENSOR SIGNAL 3

17	G	AV COMM (H)
18	Y	AV COMM (L)
21	W	AV COMM (H)
22	B	AV COMM (L)
23	LG	LED (+)
24	G	LED (-)
27	W	CAMERA IMAGE SIGNAL
28	SHIELD	CAMERA IMAGE GND
29	Y	SIDE CAMERA RH IMAGE SIGNAL
30	G	SIDE CAMERA RH IMAGE GND
31	SHIELD	SHIELD
32	B	SIDE CAMERA RH GND
33	W	SIDE CAMERA RH COMM
34	R	SIDE CAMERA RH POWER SUPPLY
35	L	REAR CAMERA COMM
36	BR	REAR CAMERA POWER SUPPLY
37	SHIELD	SHIELD
38	R	REAR CAMERA GND
39	Y	REAR CAMERA IMAGE SIGNAL
40	W	REAR CAMERA IMAGE GND

Connector No.	B48
Connector Name	REAR SPEAKER LH
Connector Type	TK02FBR

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	B51
Connector Name	WOOFER
Connector Type	RS08FGY-PR

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	W	BATTERY

Connector No.	B68
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
3	L	-
14	W	-

Connector No.	B68
Connector Name	WIRE TO WIRE
Connector Type	RH08MB

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	- [With around view monitor]
6	B	- [With around view monitor]
7	W	- [With around view monitor]

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AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	B240
Connector Name	BUZZER
Connector Type	FK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	
2	GR	

Connector No.	B230
Connector Name	REAR SQUAWKER RH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Connector No.	B239
Connector Name	CORNER SENSOR (RL)
Connector Type	YDX02FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	
2	B	

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-N5S



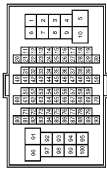
Terminal No.	Color of Wire	Signal Name [Specification]
16	L	
17	O	- [With BOSE audio]

Connector No.	B255
Connector Name	WIRE TO WIRE
Connector Type	RH06FB



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	
6	B	
7	R	

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
18	GR	
99	P	
100	L	- [With BOSE audio]

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
13	L	
14	W	

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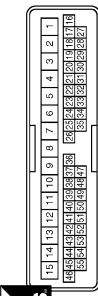
AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW VIEW MONITOR

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



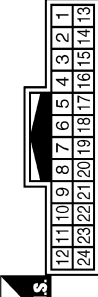
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	
8	BR	
18	R	
19	Y	
20	B	-- [With around view monitor]
21	G	-- [With around view monitor]
29	SHIELD	
30	W	
31	LG	
32	BR	

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)
Connector Type	NS0ZFBR-CS



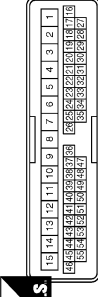
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	
5	Y	
6	R	
17	G	
18	W	

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



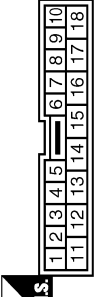
Terminal No.	Color of Wire	Signal Name [Specification]
4	W	
5	L	
16	R	
17	W	
18	G	
19	Y	
27	B	
28	SHIELD	

Connector No.	D56
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS0ZFBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	
2	G	

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



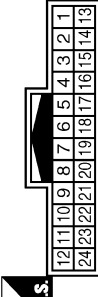
Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	-- [With BOSE audio]
17	G	-- [With BOSE audio]

Connector No.	D34
Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)
Connector Type	NS0ZFBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	
2	R	

Connector No.	D33
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	W	
4	LG	
5	B	
6	R	
16	BR	
17	G	
18	Y	

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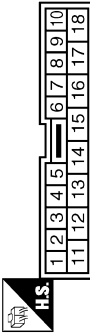
AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSB



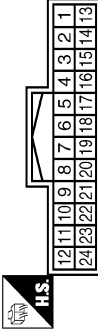
Terminal No.	Color of Wire	Signal Name [Specification]
16	L	-
17	Y	-

Connector No.	D75
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NSD2FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-RH



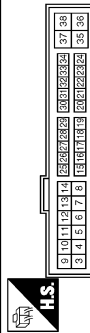
Terminal No.	Color of Wire	Signal Name [Specification]
13	R	-
14	L	- [With around view monitor]
15	Y	-
16	G	- [With around view monitor]
17	W	- [With around view monitor]
18	SHIELD	-

Connector No.	D111
Connector Name	REAR CAMERA
Connector Type	TH08BMF-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR CAMERA IMAGE GND
4	W	REAR CAMERA COMM
5	Y	REAR CAMERA IMAGE SIGNAL
7	L	REAR CAMERA GND
8	R	REAR CAMERA POWER SUPPLY

Connector No.	E5
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH20FW-CS1Z-M4-1V



Terminal No.	Color of Wire	Signal Name [Specification]
25	G	-

Connector No.	E63
Connector Name	CORNER SENSOR (FL)
Connector Type	YDX02FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	B	-

Connector No.	E73
Connector Name	FRONT CAMERA
Connector Type	RH06FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	FRONT CAMERA POWER SUPPLY
2	BR	FRONT CAMERA GND
3	Y	FRONT CAMERA IMAGE SIGNAL
4	L	FRONT CAMERA IMAGE GND
6	W	FRONT CAMERA COMM

Connector No.	E81
Connector Name	WIRE TO WIRE
Connector Type	RS02MB




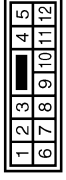

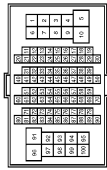







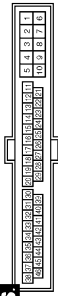



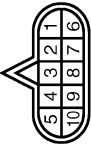
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	L	-

AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No. E104	WIRE TO WIRE	NS12MW-CS	 	Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	WIRE TO WIRE	NS12MW-CS		1	W	
Connector Type	WIRE TO WIRE	NS12MW-CS		2	BR	
				3	L	
				4	SHIELD	
				7	Y	
				8	R	
Connector No. E106	WIRE TO WIRE	TH80FW-CS16-TM4	 	Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	WIRE TO WIRE	TH80FW-CS16-TM4		1	B	
Connector Type	WIRE TO WIRE	TH80FW-CS16-TM4		2	W	
				3	R	
				4	GR	
				59	O	
				84	G	
				93	Y	
Connector No. E107	PARKING BRAKE SWITCH	TB01FW	 	Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	PARKING BRAKE SWITCH	TB01FW		1	O	
Connector Type	PARKING BRAKE SWITCH	TB01FW				
Connector No. E151	WIRE TO WIRE	RS02FB	 	Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	WIRE TO WIRE	RS02FB		1	R	
Connector Type	WIRE TO WIRE	RS02FB		2	B	
Connector No. E152	CORNER SENSOR (FR)	YD02FB	 	Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	CORNER SENSOR (FR)	YD02FB		1	R	
Connector Type	CORNER SENSOR (FR)	YD02FB		2	B	
Connector No. F103	WIRE TO WIRE	TK38FW-NS10	 	Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	WIRE TO WIRE	TK38FW-NS10		31	R	
Connector Type	WIRE TO WIRE	TK38FW-NS10				
Connector No. F151	TCM (TRANSMISSION CONTROL MODULE)	SP10FBGY	 	Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	TCM (TRANSMISSION CONTROL MODULE)	SP10FBGY		7	O	REV LAMP RLY
Connector Type	TCM (TRANSMISSION CONTROL MODULE)	SP10FBGY				
Connector No. F51	A/T ASSEMBLY	RK10FG-DGY	 	Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	A/T ASSEMBLY	RK10FG-DGY		7	R	
Connector Type	A/T ASSEMBLY	RK10FG-DGY				

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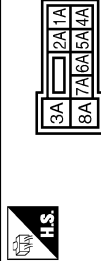
AV CONTROL UNIT

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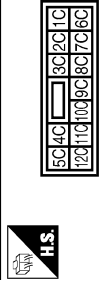
[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

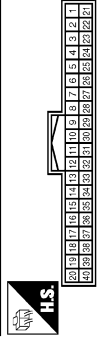
Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-MZ



Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS17FW-CS



Connector No.	M4
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-RH



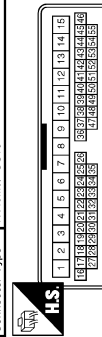
26	W	-
27	B	-
28	G	-
29	Y	-
30	R	-
31	R	-
32	SHIELD	-
33	R	-
34	W	-
35	B	-
36	SHIELD	-
37	B	-
38	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	V	-

Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	P	-
3	V	-
4	B	-
13	B	-
14	LG	-
15	G	-
16	W	-
17	R	-
18	Y	-
25	SHIELD	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SB	-
67	V	-
68	SR	-
69	SHIELD	-
70	V	-
80	O	-

Terminal No.	Color of Wire	Signal Name [Specification]
4	P	-
5	L	-
16	R	-
17	B	-
18	G	-
19	Y	-
27	W	-
28	SHIELD	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	R	-
3	W	-
4	SHIELD	-
59	V	-
84	G	-
93	Y	-

Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
41	BR	-
42	R	-
44	LG	-
45	V	-
46	G	- [With base audio or with NAV]
47	R	- [With base audio or with NAV]
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M25	LG	-
Connector Name	WIRE TO WIRE	P	-
Connector Type	NSI/BMW-CS		

Connector No.	M24		
Connector Name	DATA LINK CONNECTOR		
Connector Type	BD1E/FV		

Connector No.	M13		
Connector Name	FRONT SQUAWKER LH		
Connector Type	TK02FBR		

Terminal No.	1	L	-
Terminal No.	2	W	-

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16					

Terminal No.	1	L	-
Terminal No.	2	W	-
Terminal No.	3	V	-
Terminal No.	4	LG	-
Terminal No.	5	Y	-
Terminal No.	6	G	-
Terminal No.	7	L	-
Terminal No.	11	V	-
Terminal No.	12	SB	-
Terminal No.	13	Y	-
Terminal No.	14	Y	-

Terminal No.	6	L	-
Terminal No.	7	V	-
Terminal No.	14	P	-

Terminal No.	1	L	-
Terminal No.	2	W	-

Terminal No.	1	L	-
Terminal No.	2	W	-
Terminal No.	3	V	-
Terminal No.	4	LG	-
Terminal No.	5	Y	-
Terminal No.	6	G	-
Terminal No.	7	L	-
Terminal No.	11	V	-
Terminal No.	12	SB	-
Terminal No.	13	Y	-
Terminal No.	14	Y	-

Terminal No.	3	R	CORNER SENSOR FRONT LH
Terminal No.	4	W	CORNER SENSOR FRONT RH
Terminal No.	5	W	CORNER SENSOR REAR LH
Terminal No.	6	R	CORNER SENSOR REAR RH
Terminal No.	12	B	SENSOR GND
Terminal No.	13	V	ACC
Terminal No.	18	O	K LINE
Terminal No.	19	G	AV COMM (H)
Terminal No.	20	R	AV COMM (L)
Terminal No.	23	GR	BUZZER
Terminal No.	24	B	GND

Terminal No.	3	L	SENSOR1
Terminal No.	4	BR	SENSOR2
Terminal No.	5	R	SENSOR3
Terminal No.	7	B	GND
Terminal No.	8	G	IGN

Terminal No.	24	P	-
Terminal No.	31	L	-
Terminal No.	33	B	-

Connector No.	M63		
Connector Name	CENTER SPEAKER		
Connector Type	TK02FBR		

Connector No.	M47		
Connector Name	SONAR CONTROL UNIT		
Connector Type	TH24FW-NH		

Connector No.	M37		
Connector Name	STEERING ANGLE SENSOR		
Connector Type	TH08FW-NH		

Connector No.	M38		
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)		
Connector Type	TK08FGY-IV		

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1	4		5

24	25	26	27
31	32	33	34

Terminal No.	1	Y	-
Terminal No.	2	G	-

Terminal No.	3	R	CORNER SENSOR FRONT LH
Terminal No.	4	W	CORNER SENSOR FRONT RH
Terminal No.	5	W	CORNER SENSOR REAR LH
Terminal No.	6	R	CORNER SENSOR REAR RH
Terminal No.	12	B	SENSOR GND
Terminal No.	13	V	ACC
Terminal No.	18	O	K LINE
Terminal No.	19	G	AV COMM (H)
Terminal No.	20	R	AV COMM (L)
Terminal No.	23	GR	BUZZER
Terminal No.	24	B	GND

Terminal No.	3	L	SENSOR1
Terminal No.	4	BR	SENSOR2
Terminal No.	5	R	SENSOR3
Terminal No.	7	B	GND
Terminal No.	8	G	IGN

Terminal No.	24	P	-
Terminal No.	31	L	-
Terminal No.	33	B	-

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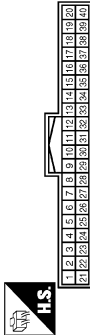
AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH407V-NH



Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH432FV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

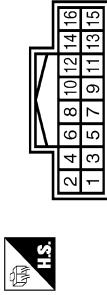
Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS22FL-M2



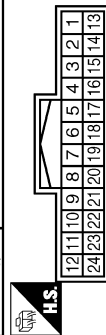
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	LG	-
3	LG	-
5	O	-

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



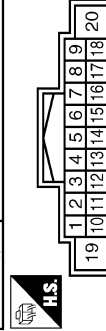
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	V	ACC
6	LG	AV COMM (H)
8	V	AV COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL

Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH242V-NH



Terminal No.	Color of Wire	Signal Name [Specification]
13	B	GND
14	SHIELD	SHIELD
15	G	AUX IMAGE SIGNAL
17	B	RGB (R-RED) SIGNAL
18	R	RGB (B-BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-GS2



Terminal No.	Color of Wire	Signal Name [Specification]
13	BR	SOUND SIGNAL REAR RH (+)
14	Y	SOUND SIGNAL REAR RH (-)
15	B	STRG SW GND
16	L	STRG SW B
19	Y	BATTERY
20	B	GND

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	V	ACC
4	SHIELD	SHIELD
5	R	AUX IMAGE GND
6	W	RGB (G-GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (VS) SIGNAL
11	BR	COMM (CONT->DISP)
12	W	CAMERA IMAGE SIGNAL

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	AMP_ON SIGNAL
2	P	SOUND SIGNAL FRONT LH (+)
3	L	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	SB	SOUND SIGNAL REAR LH (-)
6	P	STRG SW A
7	V	ACC
9	R	ILLUMINATION
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (+)
12	G	SOUND SIGNAL FRONT RH (-)

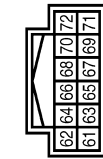
AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

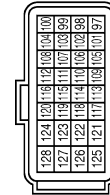
72	SHIELD	SHIELD
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Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
61	B	RGB (R: RED) SIGNAL
62	W	RGB (G: GREEN) SIGNAL
63	R	RGB (B: BLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (S) SIGNAL
68	R	HP
69	W	VP
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-R28-R-LH-Z

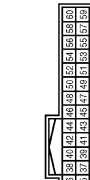


Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-LI
114	L	VEHCAN-HI

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

38	R	VEHICLE SPEED (8-PUL SE)
41	B	CONTROL SIGNAL 1
42	B	CONTROL SIGNAL 2
43	GR	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
48	G	AV COMM (R)
49	R	AV COMM (L)
50	LG	AV COMM (H)
51	V	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH46FW-NH



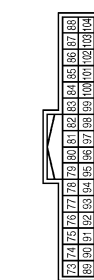
Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	Y	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
35	G	IGNITION
36	V	PARKING BRAKE
37	O	REVERSE

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSB



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	-- [With NAVI]
3	G	-- [With NAVI]
4	SHIELD	-- [With NAVI]

Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH22FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
79	R	Pod SOUND SIGNAL LH (+)
80	B	Pod SOUND SIGNAL RH (+)
85	SB	DISK EJECT SIGNAL
86	SHIELD	SHIELD
87	R	AUX SOUND SIGNAL LH (+)
88	W	AUX SOUND SIGNAL LH (-)
95	W	Pod SOUND SIGNAL LH (+)
96	G	Pod SOUND SIGNAL RH (+)
102	BR	SW GND
103	B	AUX SOUND SIGNAL RH (+)

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AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24PV-NH

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	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (iPod ADAPTER→iPod)
10	L	COMM (iPod→iPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	R	iPod SOUND SIGNAL RH (+)
13	W	iPod SOUND SIGNAL LH (-)

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK36MW-NS10

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
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Terminal No.	Color of Wire	Signal Name [Specification]
31	W	-

14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	COMM (L)
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	W	COMM (iPod→iPod ADAPTER)
5	L	COMM (iPod→iPod ADAPTER)
6	P	iPod SOUND SIGNAL RH (+)
7	R	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	COMM (L)
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH

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
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Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP18EGY

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	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-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	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
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Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	LG	-
18	R	-
19	B	-
20	Y	- [With around view monitor]
21	G	- [With around view monitor]
29	SHIELD	-
30	W	-
31	LG	-
32	G	-

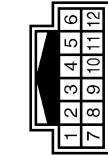
AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	TH2/MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	
6	W	

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	A08PW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	AUX SOUND SIGNAL RH (+)
2	W	AUX SOUND SIGNAL GND
3	R	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	TK0BFGY



Terminal No.	Color of Wire	Signal Name [Specification]
14	W	
15	L	
17	BR	

Connector No.	M371
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT.3SFZ-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
105	-	FM SUB
106	-	AM-FM MAIN
107	-	ANTENNA AMP. ON SIGNAL

Connector No.	M372
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKRA JACK



Terminal No.	Color of Wire	Signal Name [Specification]
108	-	SAEILLITE ANTENNA

Connector No.	M373
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT5-1S-HU



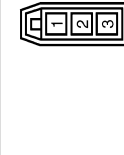
Terminal No.	Color of Wire	Signal Name [Specification]
110	-	GPS ANTENNA
111	SHIELD	SHIELD

Connector No.	M374
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	
2	-	

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT.13SC-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	
2	-	
3	-	

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AV

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M376	Connector No.	M377	Connector No.	M378	Connector No.	M380
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/IPP-HU	Connector Type	GT16C-1PP-HU	Connector Type	GT13SC-2/IS-HU	Connector Type	GT16-1S-HU

Terminal No.	1	2	3	Terminal No.	1	2
Color of Wire	-	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	-	Signal Name [Specification]	-	-

Terminal No.	1	2	3	Terminal No.	1	2
Color of Wire	-	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	-	Signal Name [Specification]	-	-

Connector No.	M382	Connector No.	M383	Connector No.	M385	Connector No.	M386
Connector Name	WIRE TO WIRE	Connector Name	ANTENNA BASE	Connector Name	WIRE TO WIRE	Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU	Connector Type	GT16C-1PP-HU	Connector Type	GT13SCN-2/IPP-HU	Connector Type	GT13SN-1/IPP-HU

Terminal No.	1	2	3	Terminal No.	1	2
Color of Wire	-	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	-	Signal Name [Specification]	-	-

Terminal No.	1	2	3	Terminal No.	1	2
Color of Wire	-	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	-	Signal Name [Specification]	-	-

Terminal No.	1	2	3	Terminal No.	1	2
Color of Wire	-	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	-	Signal Name [Specification]	-	-

JCNWM0812GI

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

A
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E
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G
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M
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BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M387
Connector Name	WIRE TO WIRE
Connector Type	JASO JACK



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M388
Connector Name	WIRE TO WIRE
Connector Type	JASO PLUG



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M389
Connector Name	WINDOW ANTENNA (SUB)
Connector Type	P01FB-A



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	RT
Connector Name	WIRE TO WIRE
Connector Type	TK09FW-NSS



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	- [With NAV]
3	G	- [With NAV]
4	SHIELD	-

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	R	- [With NAV]
5	G	- [With NAV]

Connector No.	RT1
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	-
5	R	-

Connector No.	RT7
Connector Name	MICROPHONE
Connector Type	TK04FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
4	R	MICROPHONE VCC

Fail-Safe

When the ambience temperature becomes extremely low or extremely high, or when HDD is malfunctioning, AV control unit displays the message and limits the AV control unit function.

FAIL-SAFE CONDITIONS

- When the ambience temperature is -20°C or lower, or when it is 70°C or higher
- when HDD is malfunctioning

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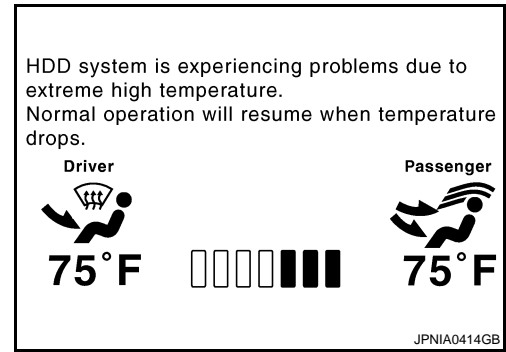
AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Display

The messages displayed on fail-safe conditions are as shown below:



Fail-safe mode	Display (display of the fail-safe condition)
When HDD temperature is low	HDD system is experiencing problems due to extreme low temperature. Normal operation will resume when temperature rises.
When HDD temperature is high	HDD system is experiencing problems due to extreme high temperature. Normal operation will resume when temperature drops.
When HDD is malfunctioning	HDD system is not functioning. Please contact your dealer for assistance.

DESCRIPTION OF CONTROLS

Function	When Fail-safe Function is activated	
Air conditioner	Operation	Only multifunction switch (preset switch) can be operated.
	Display	<ul style="list-style-type: none"> • LED of multifunction switch (preset switch) illuminates. • Aimed temperature, blow angle, and flow rate are displayed in simplified mode.
Audio	Operation	Only ON/OFF and volume control operations by multifunction switch (preset switch) are possible.
	Display	No display ("Fail-safe mode" is displayed)
Camera	Operation	Image tone cannot be controlled.
	Display	Cannot be superimposed. (warning display, tone control display)
Hands-free phone	Operation	Cannot be operated.
Navigation	Operation	Cannot be operated.
Self diagnosis		The display in simplified mode of fail-safe condition
CONSULT-III diagnosis		Cannot be operated.

Ability Operation Mode

There is an ability operation mode for Fail-safes due to low or high ambient temperature.

If HDD data can be read, fail-safe is shown, then normal displays are displayed only for functions which can be operated.

RELEASE CONDITIONS OF FAIL-SAFE

Fail-safe is released on following conditions and normal mode is restored.

When the temperature of HDD is low or high

If the ambient temperature becomes out of fail-safe condition range, normal mode is restored.

When HDD is malfunctioning

If the malfunction disappears, normal mode is restored.

NOTE:

- If fail-safe mode due to HDD malfunction is seen continuously, replace AV control unit.
- If fail-safe mode due to HDD malfunction is seen temporarily, check the "Error History" of Confirmation/Adjustment mode. If this is normal, then continue the normal operation, observing the function. (It might be a temporary malfunction of HDD.)

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

DTC Index

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Self-diagnosis results display item

DTC	Display item	Refer to
U1000	CAN COMM CIRCUIT [U1000]	AV-508, "Diagnosis Procedure"
U1010	CONTROL UNIT (CAN) [U1010]	AV-509, "Diagnosis Procedure"
U1310	CONTROL UNIT (AV) [U1310]	AV-510, "DTC Logic"
U1200	Control Unit FLASH-ROM [U1200]	AV-511, "DTC Logic"
U1201	Gyro NO CONN [U1201]	AV-512, "DTC Logic"
U1216	CAN CONT [U1216]	AV-513, "DTC Logic"
U1217	BLUETOOTH CONN [U1217]	AV-514, "DTC Logic"
U1218	HDD CONN [U1218]	AV-515, "DTC Logic"
U1219	HDD READ [U1219]	AV-516, "DTC Logic"
U1220	XM SERIAL COMM [U1220]	AV-517, "DTC Logic"
U121A	HDD WRITE [U121A]	AV-518, "DTC Logic"
U121B	HDD COMM [U121B]	AV-519, "DTC Logic"
U121C	HDD ACCESS [U121C]	AV-520, "DTC Logic"
U121D	DSP CONN [U121D]	AV-521, "DTC Logic"
U121E	DSP COMM [U121E]	AV-522, "DTC Logic"
U121F	INTERNAL COMM [U121F]	AV-523, "Diagnosis Procedure"
U1204	GPS COMM [U1204]	AV-524, "Diagnosis Procedure"
U1205	GPS ROM [U1205]	AV-525, "Diagnosis Procedure"
U1206	GPS RAM [U1206]	AV-526, "Diagnosis Procedure"
U1207	GPS RTC [U1207]	AV-527, "Diagnosis Procedure"
U1243	FRONT DISP CONN [U1243]	AV-528, "Diagnosis Procedure"
U1244	GPS ANTENNA CONN [U1244]	AV-530, "Diagnosis Procedure"
U1250	CAMERA CONT. CONN [U1250]	AV-531, "Diagnosis Procedure"
U1258	XM ANTENNA CONN [U1258]	AV-532, "Diagnosis Procedure"
U1300 U121F	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • INTERNAL COMM [U121F] 	Without rear view monitor and around view monitor <ul style="list-style-type: none"> • AV-533, "WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR : Description" With rear view monitor <ul style="list-style-type: none"> • AV-533, "WITH REAR VIEW MONITOR : Description" With around view monitor <ul style="list-style-type: none"> • AV-534, "WITH AROUND VIEW MONITOR : Description"
U1300 U1240	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] 	Without rear view monitor and around view monitor <ul style="list-style-type: none"> • AV-533, "WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR : Description" With rear view monitor <ul style="list-style-type: none"> • AV-533, "WITH REAR VIEW MONITOR : Description" With around view monitor <ul style="list-style-type: none"> • AV-534, "WITH AROUND VIEW MONITOR : Description"

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AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

DTC	Display item	Refer to
U1300 U1254	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • IPod CONN [U1254] 	<p>Without rear view monitor and around view monitor</p> <ul style="list-style-type: none"> • AV-533, "WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR : Description" <p>With rear view monitor</p> <ul style="list-style-type: none"> • AV-533, "WITH REAR VIEW MONITOR : Description" <p>With around view monitor</p> <ul style="list-style-type: none"> • AV-534, "WITH AROUND VIEW MONITOR : Description"
U1300 U125B	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • AROUND CAMERA CONN [U125B] 	<p>AV-534, "WITH AROUND VIEW MONITOR : Description"</p>
U1300 U125C	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SONAR CONN [U125C] 	<p>AV-534, "WITH AROUND VIEW MONITOR : Description"</p>
U1300 U1240 U1254	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • IPod CONN [U1254] 	<p>Without rear view monitor and around view monitor</p> <ul style="list-style-type: none"> • AV-533, "WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR : Description" <p>With rear view monitor</p> <ul style="list-style-type: none"> • AV-533, "WITH REAR VIEW MONITOR : Description" <p>With around view monitor</p> <ul style="list-style-type: none"> • AV-534, "WITH AROUND VIEW MONITOR : Description"
U1300 U1252 U1254	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • REAR CAMERA LAN CONN [U1252] • IPod CONN [U1254] 	<p>AV-533, "WITH REAR VIEW MONITOR : Description"</p>
U1300 U1240 U1252 U1254	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • REAR CAMERA LAN CONN [U1252] • IPod CONN [U1254] 	<p>AV-533, "WITH REAR VIEW MONITOR : Description"</p>
U1300 U1254 U125B	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • IPod CONN [U1254] • AROUND CAMERA CONN [U125B] 	<p>AV-534, "WITH AROUND VIEW MONITOR : Description"</p>
U1300 U1240 U1254 U125B	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • IPod CONN [U1254] • AROUND CAMERA CONN [U125B] 	<p>AV-534, "WITH AROUND VIEW MONITOR : Description"</p>
U1300 U121F U1240 U1254	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • INTERNAL COMM [U121F] • SWITCH CONN [U1240] • IPod CONN [U1254] 	<p>AV-533, "WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR : Description"</p>
U1300 U121F U1240 U1252 U1254	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • INTERNAL COMM [U121F] • SWITCH CONN [U1240] • REAR CAMERA LAN CONN [U1252] • IPod CONN [U1254] 	<p>AV-533, "WITH REAR VIEW MONITOR : Description"</p>
U1300 U121F U1240 U1254 U125B	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • INTERNAL COMM [U121F] • SWITCH CONN [U1240] • IPod CONN [U1254] • AROUND CAMERA CONN [U125B] 	<p>AV-534, "WITH AROUND VIEW MONITOR : Description"</p>

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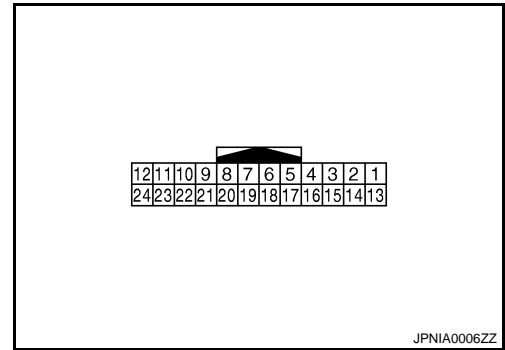
[BOSE AUDIO WITH NAVIGATION]

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TERMINAL LAYOUT



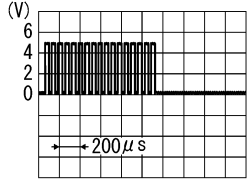
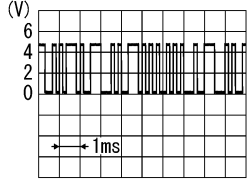
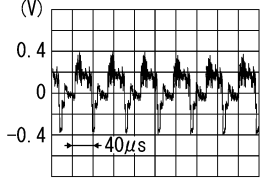
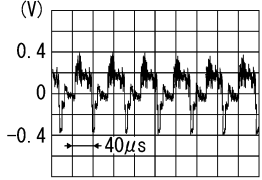
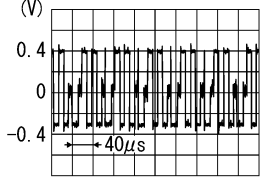
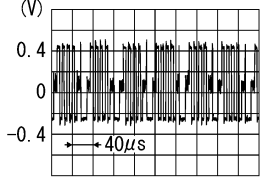
PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
2 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
3 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
4	—	Shield	—	—	—	—
5 (R)	Ground	AUX image ground	—	Ignition switch ON	—	0 V
6 (W)	Ground	RGB signal (G: green)	Input	Ignition switch ON	Start confirmation/adjust- ment mode, and then dis- play color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNO- SIS screen.	<p style="text-align: right;">SKIB2236J</p>
7	—	Shield	—	—	—	—
8 (R)	Ground	Horizontal synchronizing (HP) signal	Output	Ignition switch ON	—	<p style="text-align: right;">SKIB3601E</p>

DISPLAY UNIT

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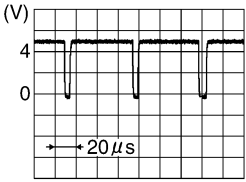
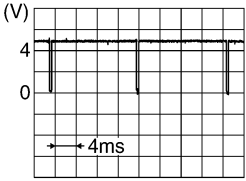
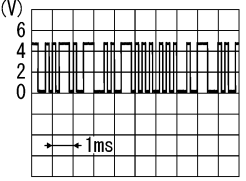
[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition	Reference value (Approx.)
+	-	Signal name	Input/ Output		
9 (B)	Ground	RGB area (YS) signal	Input	Ignition switch ON	At RGB image display At rear view camera image display 5.0 V  PKIB4948J
11 (BR)	Ground	Communication signal (CONT→DISP)	Input	Ignition switch ON	When adjusting display brightness.  PKIB5039J
12 (W)	Ground	Camera image signal	Input	Ignition switch ON	At rear view camera image display  SKIB2251J
13 (B)	Ground	Ground	—	Ignition switch ON	—
14	—	Shield	—	—	—
15 (G)	Ground	AUX image signal	Input	Ignition switch ON	AUX image display  SKIB2251J
17 (B)	Ground	RGB signal (R: red)	Input	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.  SKIB2238J
18 (R)	Ground	RGB signal (B: blue)	Input	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.  SKIB2237J

DISPLAY UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
19 (G)	Ground	RGB synchronizing signal	Input	Ignition switch ON	—	 <p>SKIB3603E</p>
20 (W)	Ground	Vertical synchronizing (VP) signal	Output	Ignition switch ON	—	 <p>SKIB3598E</p>
21	—	Shield	—	—	—	—
22 (Y)	Ground	Communication signal (DISP→CONT)	Output	Ignition switch ON	When adjusting display brightness.	 <p>PKIB5039J</p>
23	—	Shield	—	—	—	—

WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR

WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR : Wiring Diagram
- BOSE AUDIO WITH NAVIGATION -

INFOID:000000003737128

Click here to view the eWD.

NOTE:

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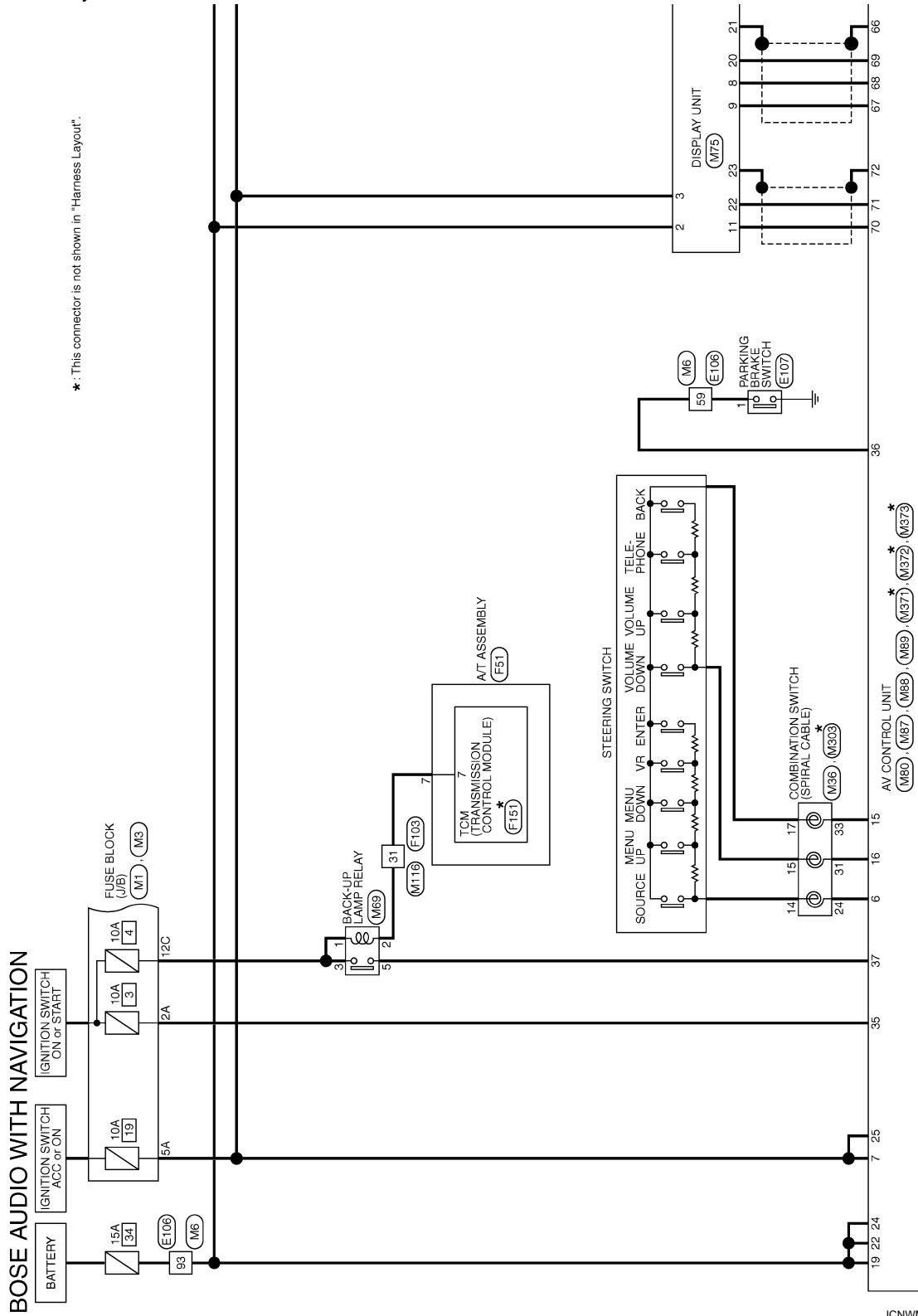
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[BOSE AUDIO WITH NAVIGATION]

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The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.



*: This connector is not shown in "Harness Layout".

2007/10/26

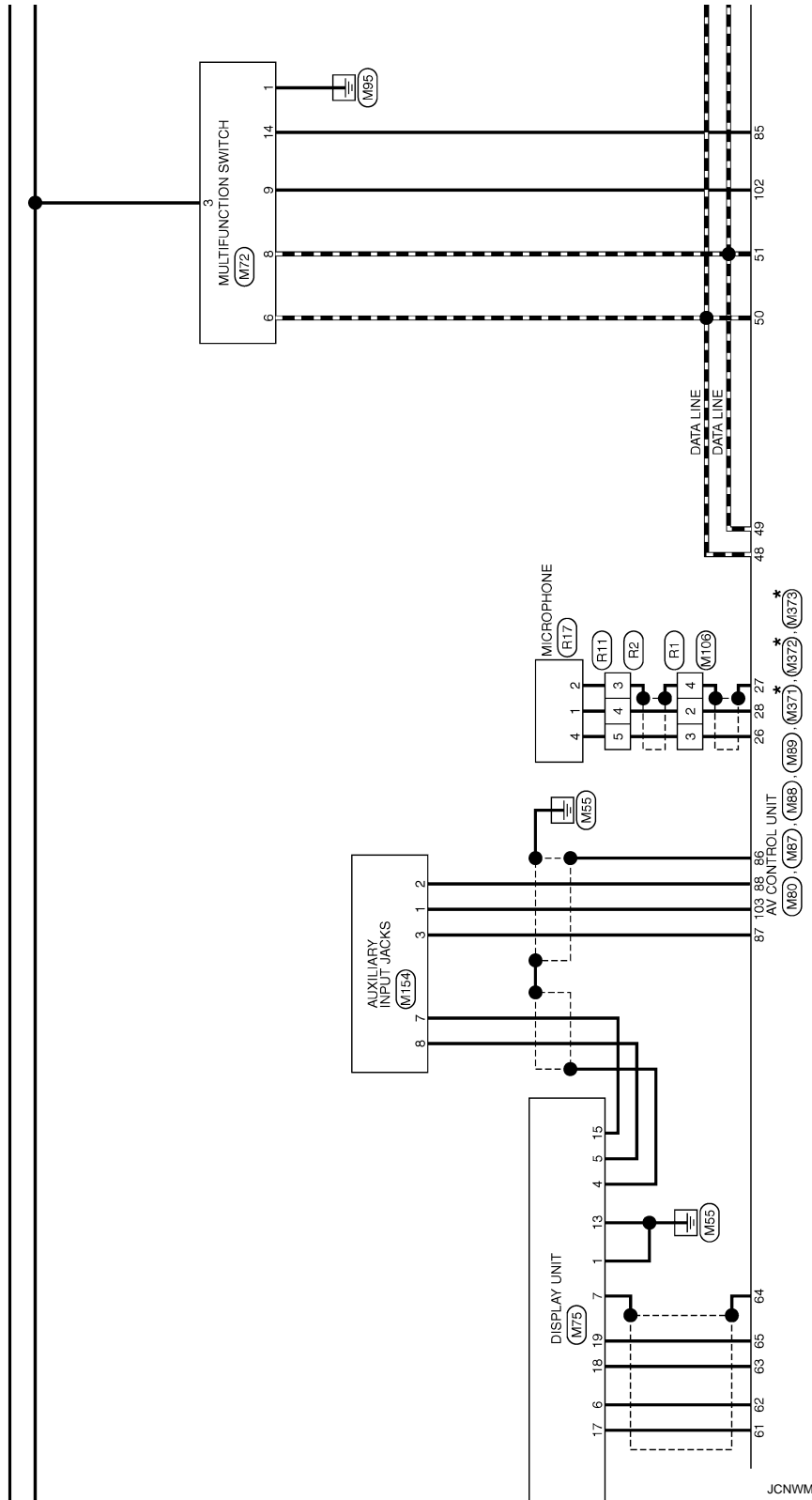
JCNWM0761GI

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[BOSE AUDIO WITH NAVIGATION]

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*: This connector is not shown in "Harness Layout".



JCNWM0762GI

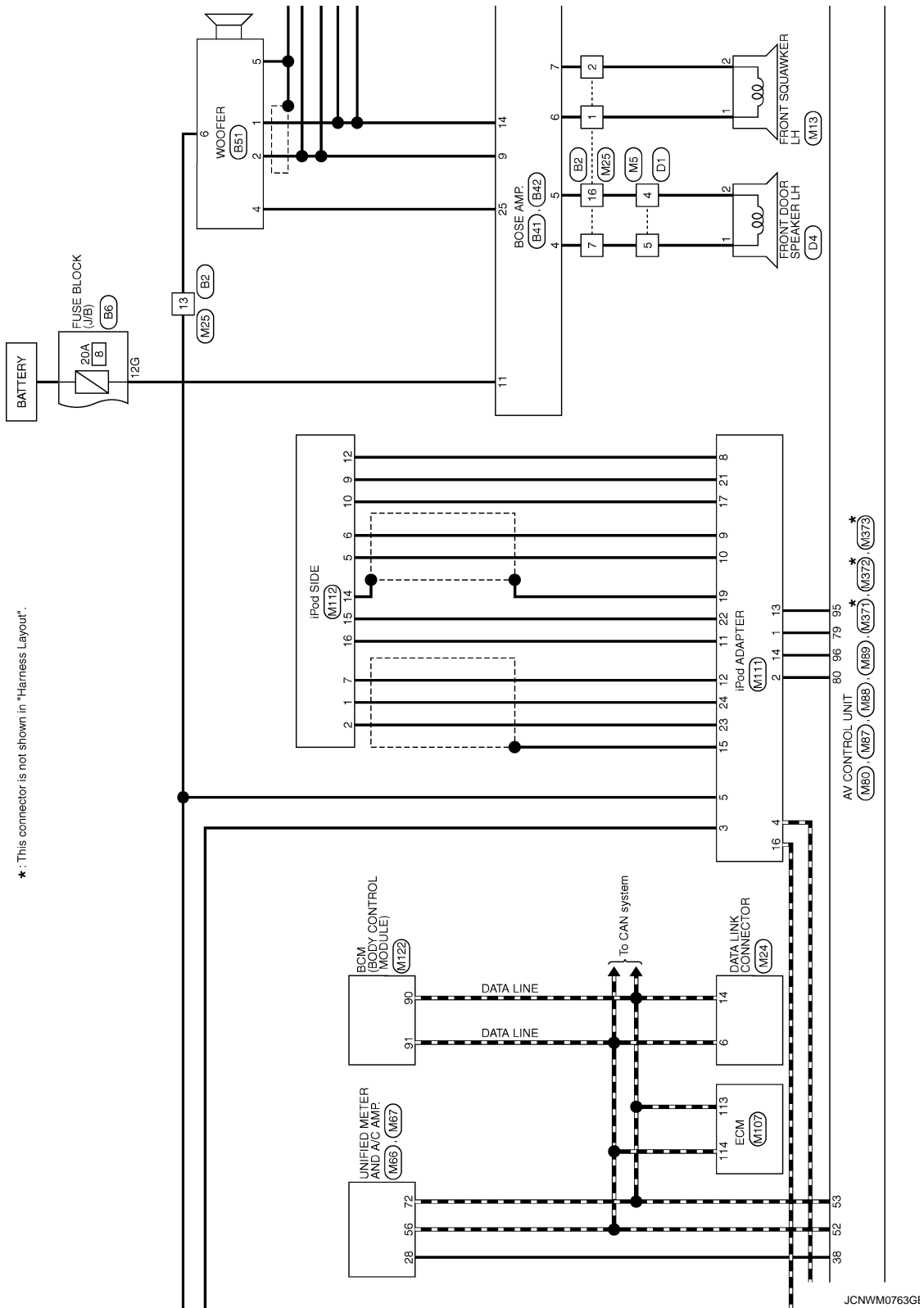
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[BOSE AUDIO WITH NAVIGATION]

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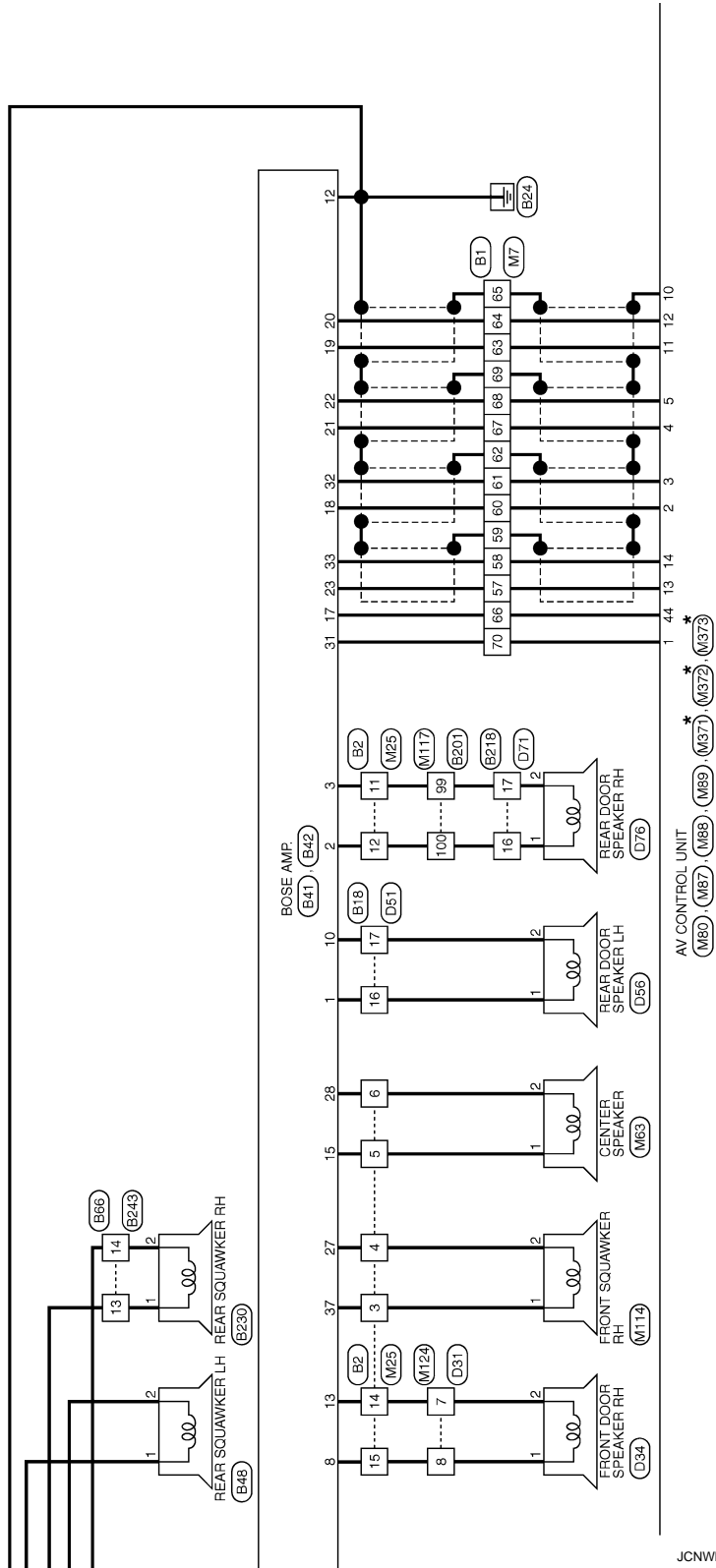


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[BOSE AUDIO WITH NAVIGATION]

*: This connector is not shown in "Harness Layout".



JCNWM0764GI

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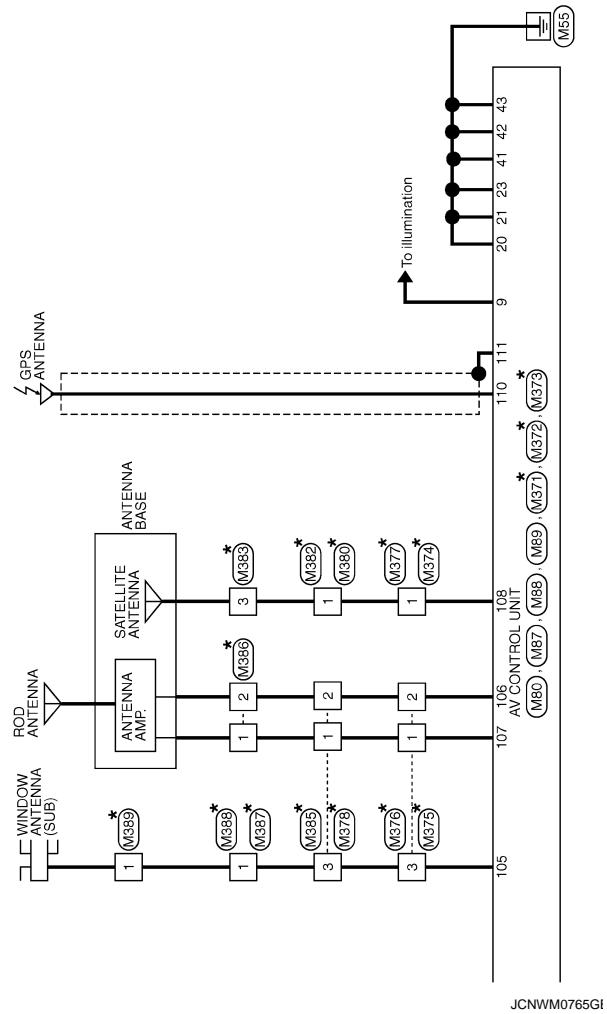
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[BOSE AUDIO WITH NAVIGATION]

*: This connector is not shown in "Harness Layout".



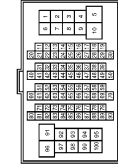
DISPLAY UNIT

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	THB0FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-

Connector No.	BB
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBF-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12G	GR	-

68	SR	-
69	SHIELD	-
70	W	-



Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
6	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

15	LG	-
16	P	-

31	W	AMP. ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	BR	SOUND SIGNAL FRONT SQUAWKER RH (-)

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FBF-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (-)
17	O	MODE CHANGE SIGNAL
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	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (-)

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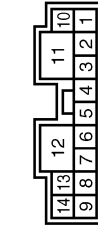
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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA12PBR-SJA2



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (+)
3	V	SOUND SIGNAL REAR DOOR RH (-)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
6	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL WOOFER (+)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	TH42MW-NH



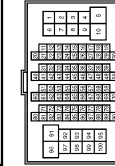
Terminal No.	Color of Wire	Signal Name [Specification]
13	L	---
14	W	---

12	B	GND
13	Y	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)
14	R	SOUND SIGNAL WOOFER (-)



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	---
2	W	---

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
99	O	---
100	L	---

Connector No.	B48
Connector Name	REAR SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	W	BATTERY

Connector No.	B230
Connector Name	REAR SQUAWKER RH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	---
2	W	---

JCNWM0767G1

BOSE AUDIO WITH NAVIGATION

Connector No.	B243	Connector No.	D1	Connector No.	D31
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	TH24PW-NH	Connector Type	TH4QFW-CS15	Connector Type	TH4QFW-CS15

Terminal No.	12	13	14	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Color of Wire	L	L	W	W	L	W	L	W	L	R	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR	BR
Signal Name [Specification]																						

Connector No.	D34	Connector No.	D56	Connector No.	D51
Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)	Connector Name	REAR DOOR SPEAKER LH	Connector Name	WIRE TO WIRE
Connector Type	NS02FBR-CS	Connector Type	NS02FBR-CS	Connector Type	TK10MW-NS8

Terminal No.	1	2	1	2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Color of Wire	BR	R	Y	G	L	W	L	W	L	W	L	W	L	W	L	W	L	W	L	W	L	W
Signal Name [Specification]																						

Connector No.	D34	Connector No.	D56	Connector No.	D51
Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)	Connector Name	REAR DOOR SPEAKER LH	Connector Name	WIRE TO WIRE
Connector Type	NS02FBR-CS	Connector Type	NS02FBR-CS	Connector Type	TK10MW-NS8

Terminal No.	1	2	1	2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Color of Wire	BR	R	Y	G	L	W	L	W	L	W	L	W	L	W	L	W	L	W	L	W	L	W
Signal Name [Specification]																						

JCNWM0768GI

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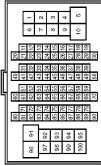
BOSE AUDIO WITH NAVIGATION

Connector No.	D76
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS2ZFB-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH86FW-CS16-TM4



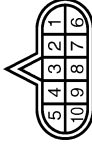
Terminal No.	Color of Wire	Signal Name [Specification]
59	O	-
93	Y	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB01FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
31	R	-

Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SPI0FEGY



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REVLAMP RLY

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	V	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

JCNWM0769GI

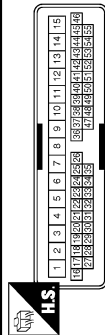
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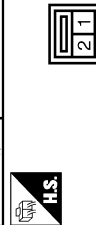
BOSE AUDIO WITH NAVIGATION

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS15



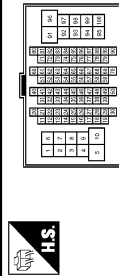
Terminal No.	Color of Wire	Signal Name [Specification]
4	P	-
5	L	-

Connector No.	M13
Connector Name	FRONT SQUAWKER LH
Connector Type	TK02FBR



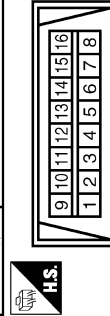
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



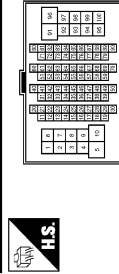
Terminal No.	Color of Wire	Signal Name [Specification]
59	V	-
93	Y	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD18FW



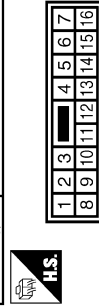
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SB	-
67	V	-

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	V	-
4	LG	-
5	Y	-
6	G	-
7	L	-
11	V	-
12	SB	-
13	Y	-
14	Y	-

68	SR
69	SHIELD
70	V

15	LG
16	P

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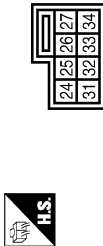
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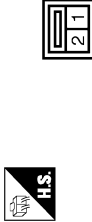
BOSE AUDIO WITH NAVIGATION

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08GY-IV



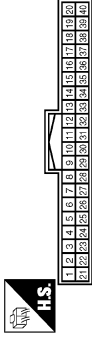
Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
31	L	-
33	B	-

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



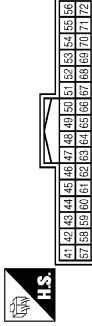
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH

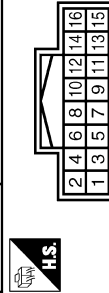


Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2

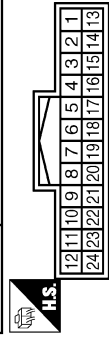


Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	B	ACC
3	V	AV COMM (H)
6	LG	AV COMM (L)
8	V	SW GND
9	BR	DISK EJECT SIGNAL
14	SB	-

Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	V	ACC
4	SHIELD	SHIELD
5	R	AUX IMAGE GND
6	W	RGB (G, GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (VS) SIGNAL
11	BR	COMM (CONT->DISP)
13	B	GND

Terminal No.	Color of Wire	Signal Name [Specification]
15	G	AUX IMAGE SIGNAL
17	B	RGB (R, RED) SIGNAL
18	R	RGB (B, BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

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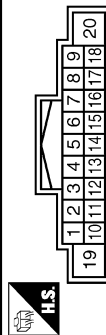
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[BOSE AUDIO WITH NAVIGATION]

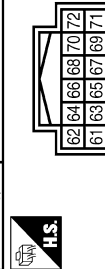
BOSE AUDIO WITH NAVIGATION

Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-CSZ



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	AMP_ON SIGNAL
2	P	SOUND SIGNAL FRONT LH (+)
3	L	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	SB	SOUND SIGNAL REAR LH (-)
6	P	STG SW A
7	V	ACC
8	R	ILLUMINATION
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (+)
12	G	SOUND SIGNAL FRONT RH (-)

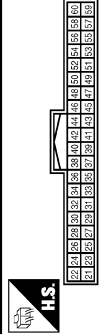
Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
61	B	RGB (R RED) SIGNAL
62	W	RGB (G GREEN) SIGNAL
63	R	RGB (B BLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (VS) SIGNAL
68	R	HP
69	W	VP
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

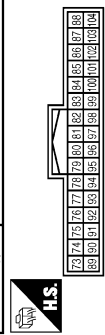
13	BR	SOUND SIGNAL REAR RH (+)
14	Y	SOUND SIGNAL REAR RH (-)
15	B	STG SW GND
16	L	STG SW B
19	Y	BATTERY
20	B	GND

Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH42FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	Y	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
35	G	IGNITION
36	V	PARKING BRAKE
37	O	REVERSE

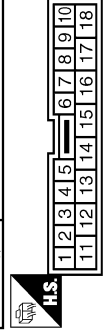
Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
79	R	iPod SOUND SIGNAL LH (+)
80	B	iPod SOUND SIGNAL RH (+)
85	SB	DISK EJECT SIGNAL
86	SHIELD	SHIELD
87	R	AUX SOUND SIGNAL LH (+)
88	W	AUX SOUND SIGNAL GND
95	W	AUX SOUND SIGNAL LH (-)
96	G	iPod SOUND SIGNAL RH (-)
102	BR	SW GND
103	B	AUX SOUND SIGNAL RH (+)

38	R	VEHICLE SPEED (8-PULSE)
41	B	CONTROL SIGNAL 1
42	B	CONTROL SIGNAL 2
43	GR	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
48	G	AV COMM (H)
49	R	AV COMM (H)
50	LG	AV COMM (L)
51	V	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	-- [With NAVI]
3	G	-- [With NAVI]
4	SHIELD	-- [With NAVI]

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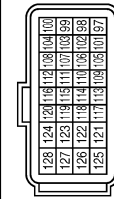
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[BOSE AUDIO WITH NAVIGATION]

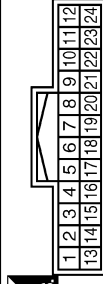
BOSE AUDIO WITH NAVIGATION

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-R28-R-LH-Z



Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-L1
114	L	VEHCAN-H1

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	AGC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod->iPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	R	iPod SOUND SIGNAL RH (+)
13	W	iPod SOUND SIGNAL LH (-)

Connector No.	M114
Connector Name	FRONT SQUAWKER RH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
18	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	W	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	R	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
99	V	- [With BOSE audio]
100	SB	- [With BOSE audio]

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP18FGY



Connector No.	M122
Connector Name	ECM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
91	L	CAN-L
92	L	CAN-H

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION

Connector No. M124	WIRE TO WIRE	TH40MW-CS15		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	WIRE TO WIRE			7	Y	
Connector Type				8	LG	
Connector No. M372	AV CONTROL UNIT (WITH NAVI)			Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	AV CONTROL UNIT (WITH NAVI)			108		
Connector Type	FAKRA JACK			109		
Connector No. M154	AUXILIARY INPUT JACKS	A08FW		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	AUXILIARY INPUT JACKS			1	B	AUX SOUND SIGNAL RH (+)
Connector Type				2	W	AUX SOUND SIGNAL GND
				3	R	AUX SOUND SIGNAL LH (+)
				7	G	AUX IMAGE SIGNAL
				8	R	AUX IMAGE GND
Connector No. M303	COMBINATION SWITCH (SPIRAL CABLE)	TK0BFGY		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)			14	W	
Connector Type				15	L	
				17	BR	
Connector No. M371	AV CONTROL UNIT (WITH NAVI)	GT13SFZ-2/1S-HU		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	AV CONTROL UNIT (WITH NAVI)			105	-	FM SUB
Connector Type				106	-	AM-FM MAIN
				107	-	ANTENNA AMP. ON SIGNAL
Connector No. M374	WIRE TO WIRE	GT16C-1S-HU		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	WIRE TO WIRE			1	-	
Connector Type				2	-	
Connector No. M373	AV CONTROL UNIT (WITH NAVI)	GT5-1S-HU		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	AV CONTROL UNIT (WITH NAVI)			110	-	GPS ANTENNA
Connector Type				111	SHIELD	SHIELD
Connector No. M375	WIRE TO WIRE	GT13SC-2/1S-HU		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	WIRE TO WIRE			1	-	
Connector Type				2	-	
				3	-	

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[BOSE AUDIO WITH NAVIGATION]



BOSE AUDIO WITH NAVIGATION

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU

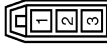

Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M377
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M380
Connector Name	WIRE TO WIRE
Connector Type	GT16-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M382
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU

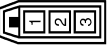

Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M383
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
3	-	SAETLLITE ANTENNA

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU

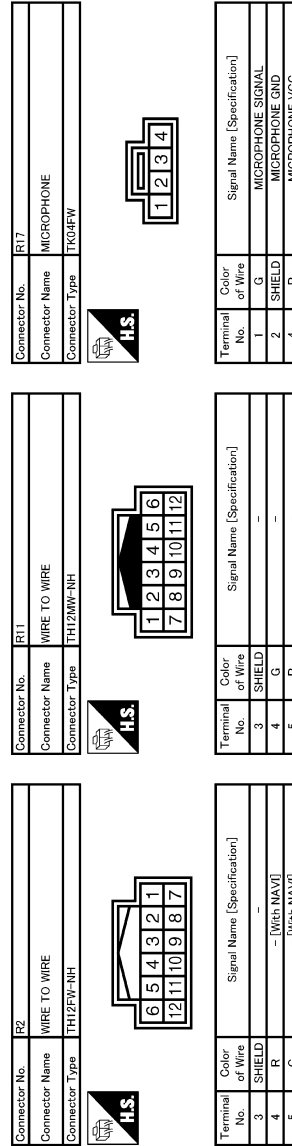
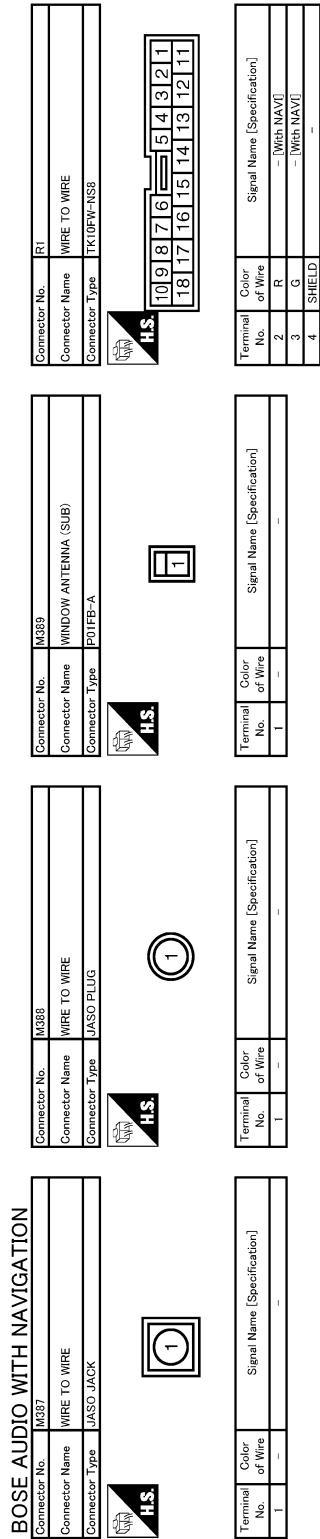
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M386
Connector Name	ANTENNA BASE
Connector Type	GT13SN-1/1PP-HU

Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP. ON SIGNAL
2	-	AM-FM MAIN

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WITH REAR VIEW MONITOR

WITH REAR VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR -

Click here to view the eWD.

NOTE:

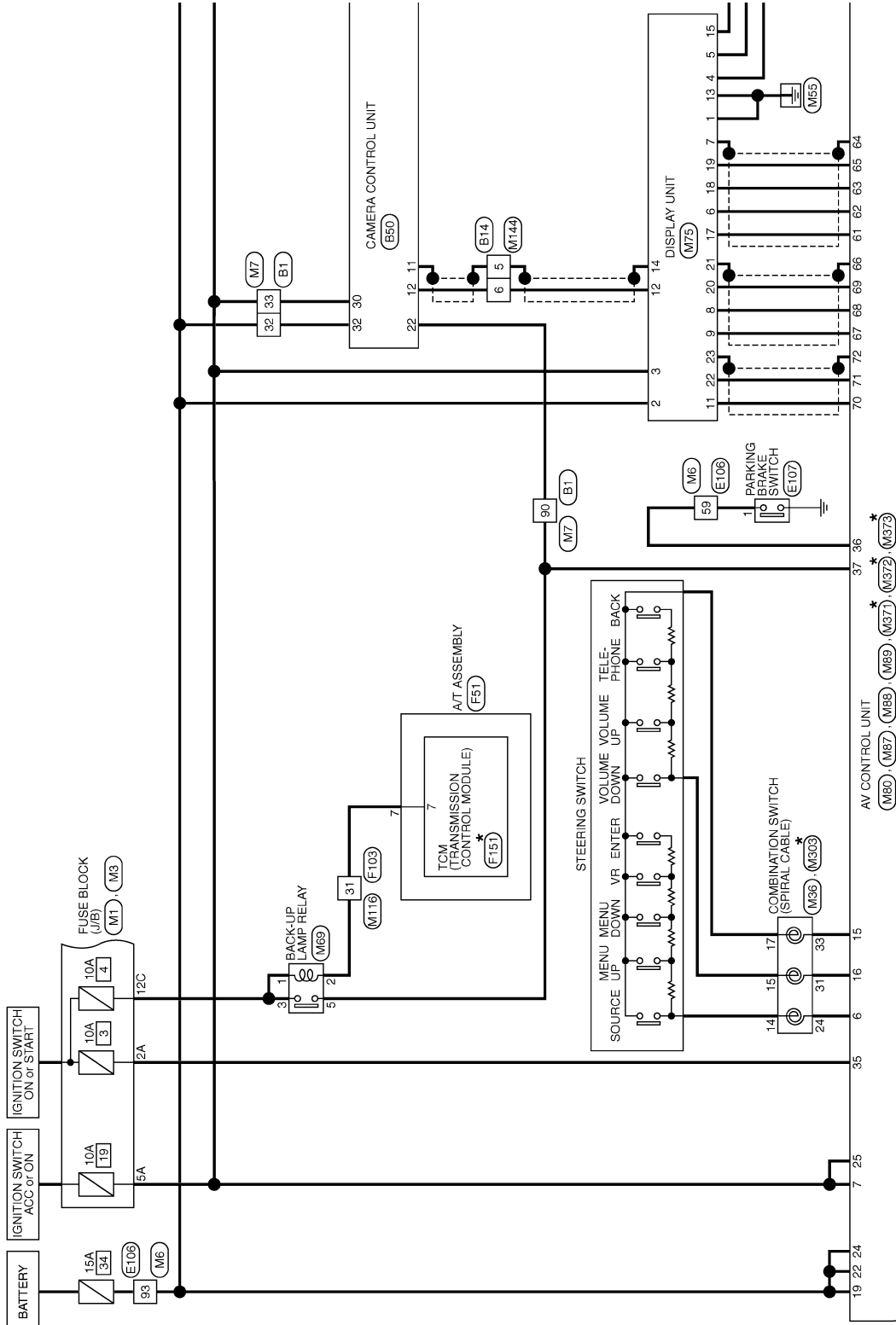
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[BOSE AUDIO WITH NAVIGATION]

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR



*: This connector is not shown in "Harness Layout".

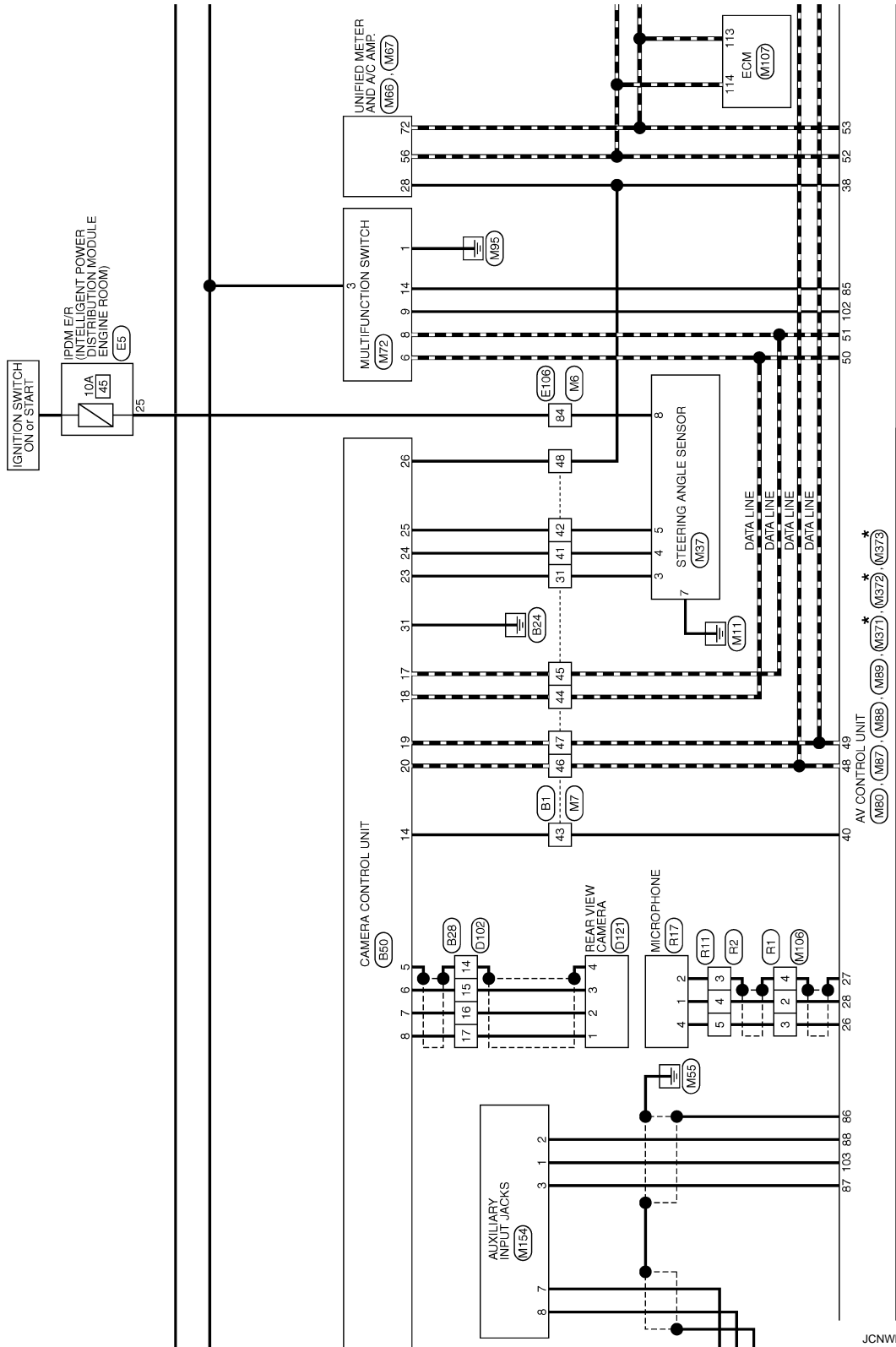
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[BOSE AUDIO WITH NAVIGATION]

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*: This connector is not shown in "Harness Layout".

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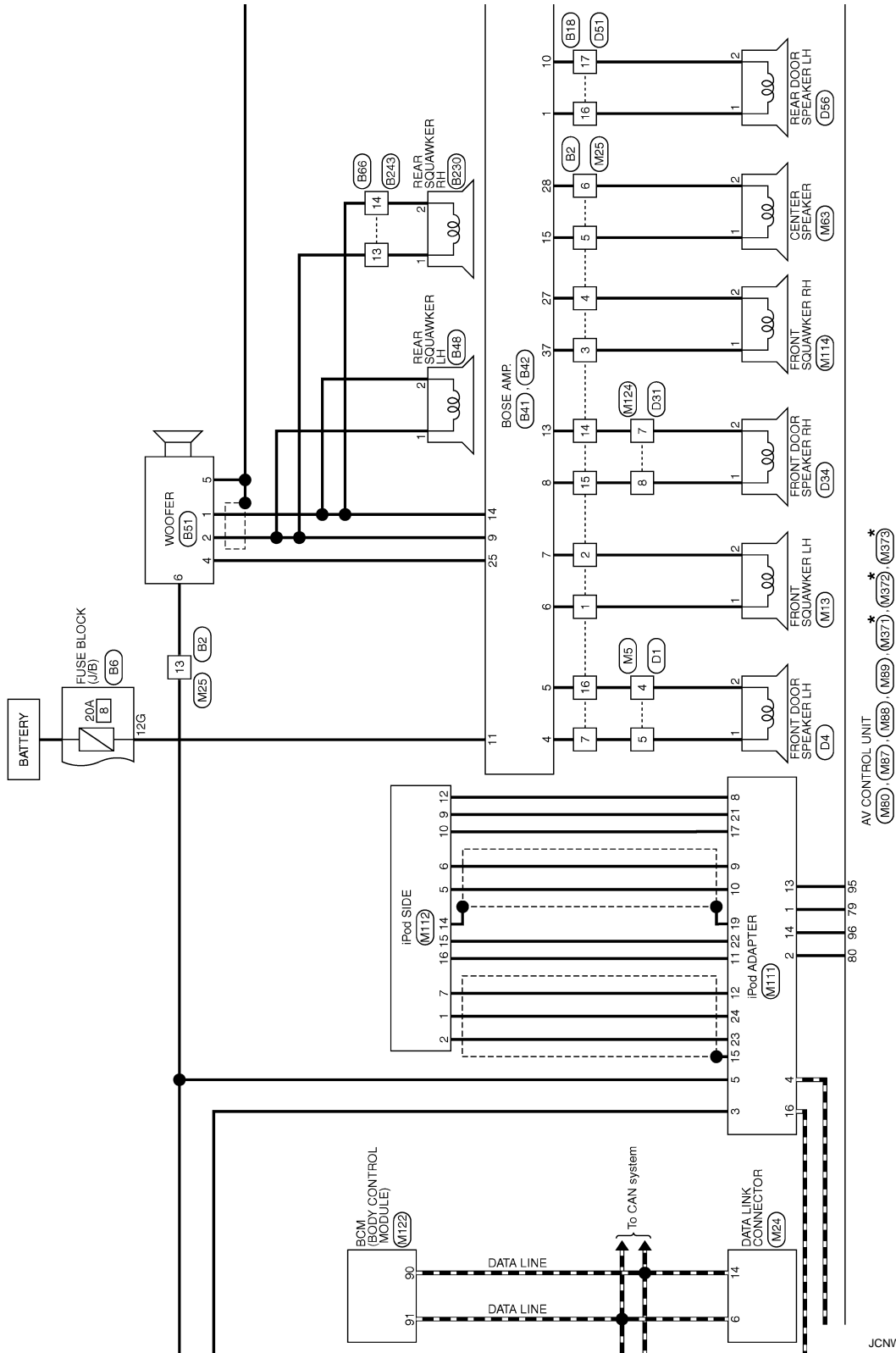
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[BOSE AUDIO WITH NAVIGATION]

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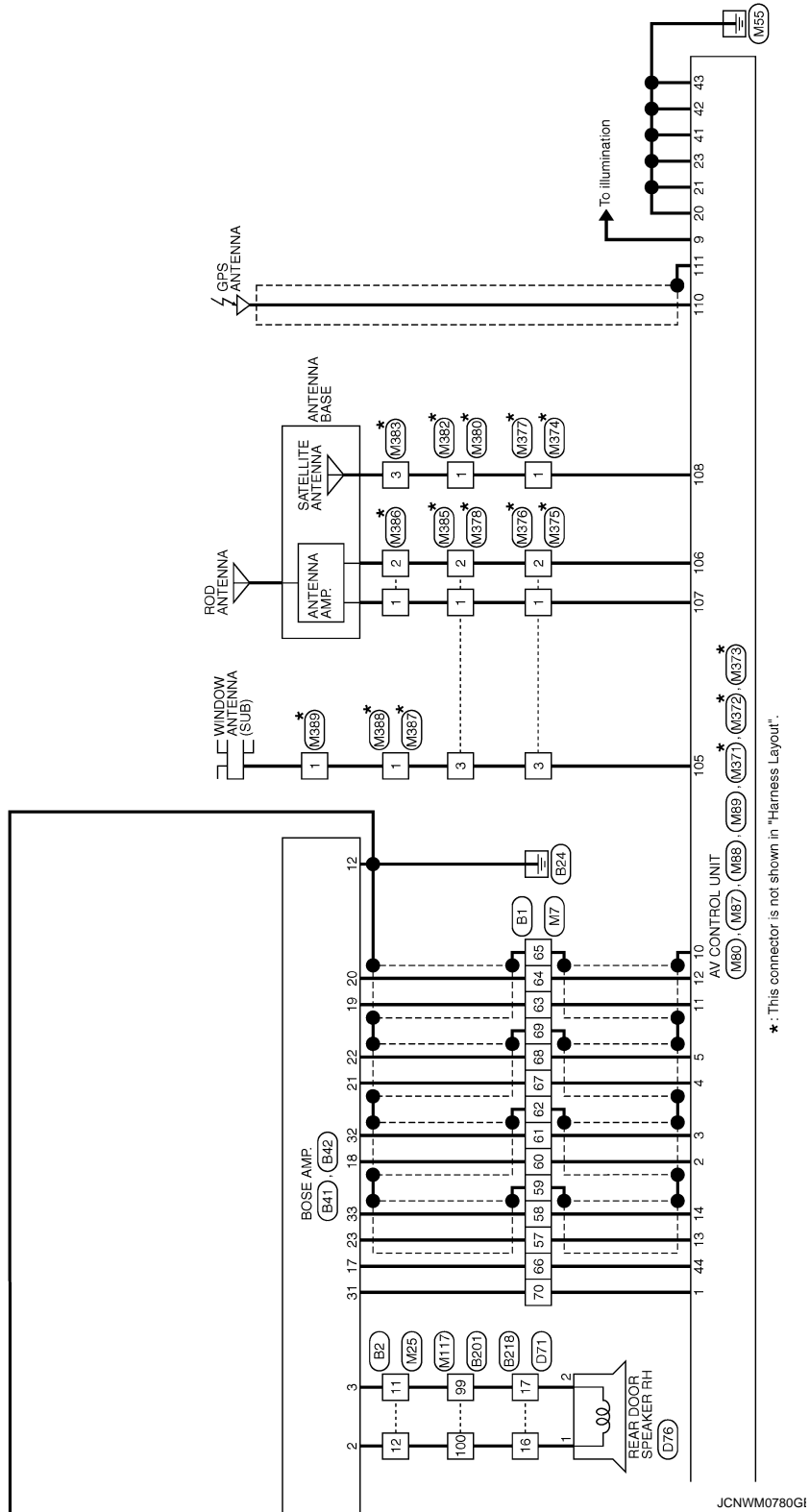
*: This connector is not shown in "Harness Layout".

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[BOSE AUDIO WITH NAVIGATION]



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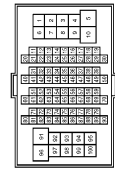
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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	L	-
33	LG	-
41	BR	-
42	R	-
43	W	-
44	LG	- [Without around view monitor]
45	V	- [Without around view monitor]
46	G	- [With base audio or with NAVI]
47	R	- [With base audio or with NAVI]
48	V	-

Connector No.	B8
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS

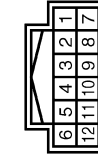


Terminal No.	12G	GR	Signal Name [Specification]	-
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57	BR	-
58	Y	-
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
90	O	-

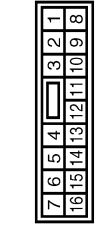
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
6	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH

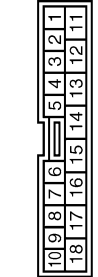


Terminal No.	5	SHIELD	Signal Name [Specification]	-
6	W	-	-	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



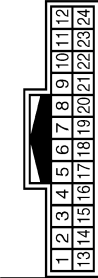
Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



Terminal No.	16	Y	Signal Name [Specification]	- [With BOSE audio]
17	G	-	-	- [With BOSE audio]

15	LG	-
16	P	-

Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MY-NH



Terminal No.	14	SHIELD	Signal Name [Specification]	- [Without around view monitor]
15	W	-	-	- [Without around view monitor]
16	B	-	-	- [Without around view monitor]
17	R	-	-	- [Without around view monitor]

DISPLAY UNIT

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA1PFR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (+)
17	O	MODE CHANGE SIGNAL
18	P	SOUND SIGNAL FRONT LH (+)
19	R	SOUND SIGNAL FRONT RH (+)
20	G	SOUND SIGNAL FRONT LH (-)
21	V	SOUND SIGNAL REAR LH (+)
22	SB	SOUND SIGNAL REAR RH (+)
23	BR	SOUND SIGNAL REAR RH (-)
25	GR	WOOFER AMP. ON SIGNAL
27	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (-)

Connector No.	B48
Connector Name	REAR SQUAWKER LH
Connector Type	TK02FBR



31	W	AMP. ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	BR	SOUND SIGNAL FRONT SQUAWKER RH (+)



Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SCA1PFR-SJA2



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (+)
3	V	SOUND SIGNAL REAR DOOR RH (-)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
8	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL WOOFER (+)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

22	O	REVERSE
23	L	SENSOR SIGNAL 1
24	BR	SENSOR SIGNAL 2
25	R	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	L	BATTERY



Connector No.	B51
Connector Name	WOOFER
Connector Type	RS08FGY-PR

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	W	CAMERA IMAGE SIGNAL
7	B	CAMERA GND
8	R	CAMERA POWER SUPPLY
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
14	W	CONNECTION RECOGNITION
17	V	AV GNDM (L) [With base audio or with NAVI]
18	LG	AV GNDM (H) [With base audio or with NAVI]
19	R	AV GNDM (L) [With base audio or with NAVI]
20	G	AV GNDM (H) [With base audio or with NAVI]

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	W	BATTERY


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BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	B2430
Connector Name	REAR SQUAWKER RH
Connector Type	TK02FBR




Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-1S8




Terminal No.	Color of Wire	Signal Name [Specification]
16	L	
17	O	- [With BOSE audio]

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS16-TM4



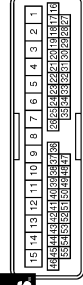
Terminal No.	Color of Wire	Signal Name [Specification]
99	O	
100	L	- [With BOSE audio]

Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH




Terminal No.	Color of Wire	Signal Name [Specification]
13	L	
14	W	

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



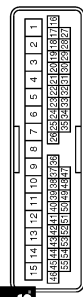
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	
8	BR	

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)
Connector Type	NS02FBR-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	
5	L	

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH




Terminal No.	Color of Wire	Signal Name [Specification]
13	L	
14	W	

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BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MP-NS




Terminal No.	Color of Wire	Signal Name [Specification]
16	L	-
17	Y	-

Connector No.	D56
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS2ZFBF-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TK10MP-NS




Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

Connector No.	D34
Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)
Connector Type	NS2ZFBF-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	R	-

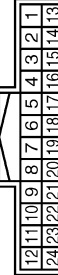
Connector No.	E5
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH2DFW-CS12-M4-1V




Connector No.	D121
Connector Name	REAR VIEW CAMERA
Connector Type	TH4MMW-NH



Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Connector No.	D76
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS2ZFBF-CS



Terminal No.	Color of Wire	Signal Name [Specification]
25	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	CAMERA POWER SUPPLY
2	L	CAMERA GND
3	Y	CAMERA IMAGE SIGNAL
4	SHIELD	SHIELD

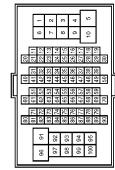
Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	Y	-
16	L	- [Without around view monitor]
17	G	- [Without around view monitor]

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-

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BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



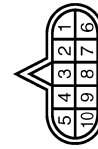
Terminal No.	Color of Wire	Signal Name [Specification]
59	O	-
84	G	-
93	Y	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB01FW



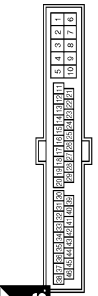
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	F51
Connector Name	A-T ASSEMBLY
Connector Type	RK10FG-DGY



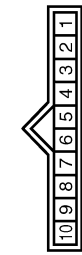
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10



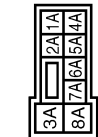
Terminal No.	Color of Wire	Signal Name [Specification]
31	R	-

Connector No.	F151
Connector Name	TOM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FBGY



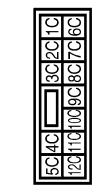
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



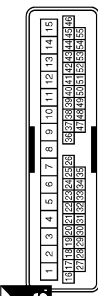
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	V	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

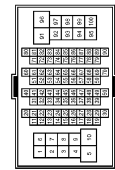
Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
4	P	-
5	L	-

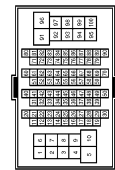
BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M16
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS1F-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
59	V	
84	G	
93	Y	

Connector No.	M17
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS1F-TM4



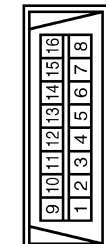
Terminal No.	Color of Wire	Signal Name [Specification]
31	L	
32	Y	
33	V	
41	BR	
42	R	
43	W	
44	LG	
45	V	
46	G	-- [With base audio or with NAV]
47	R	-- [With base audio or with NAV]
48	V	

Connector No.	M13
Connector Name	FRONT SQUAWKER LH
Connector Type	TK02FBR



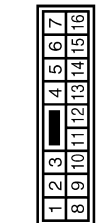
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	
14	P	

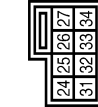
Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	
3	V	
4	LG	
5	Y	
6	G	
7	L	
11	V	
12	SB	
13	Y	
14	Y	

15	LG
16	P

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FEGY-1V



Terminal No.	Color of Wire	Signal Name [Specification]
24	P	
31	L	
33	B	

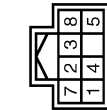
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BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH8BFV-NH



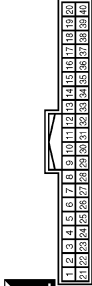
Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



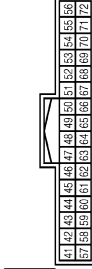
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



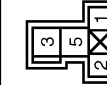
Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



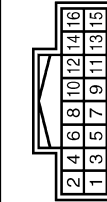
Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2



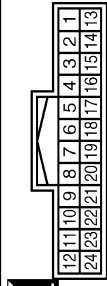
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	V	ACC
3	V	AV COMM (H)
6	LG	AV COMM (L)
8	V	SW GND
9	BR	DISK EJECT SIGNAL
14	SB	-

Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	V	ACC
4	SHIELD	SHIELD
5	R	AUX IMAGE GND
6	W	RGB (G: GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (VS) SIGNAL
11	BR	COMM (CONT->DISP)
12	W	CAMERA IMAGE SIGNAL

Terminal No.	Color of Wire	Signal Name [Specification]
13	B	GND
14	SHIELD	SHIELD
15	G	AUX IMAGE SIGNAL
17	B	RGB (R: RED) SIGNAL
18	R	RGB (B: BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

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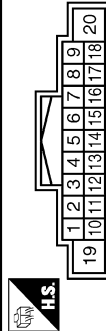
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[BOSE AUDIO WITH NAVIGATION]

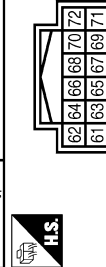
BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-CSZ



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	AMP_ON SIGNAL
2	P	SOUND SIGNAL FRONT LH (+)
3	L	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	SB	SOUND SIGNAL REAR LH (-)
8	P	STG SW A
7	V	ACC
9	R	ILLUMINATION
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (+)
12	G	SOUND SIGNAL FRONT RH (-)

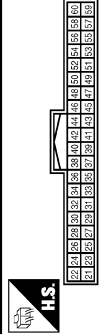
Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
61	B	RGB (R RED) SIGNAL
62	W	RGB (G GREEN) SIGNAL
63	R	RGB (B BLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (VS) SIGNAL
68	R	HP
69	W	VP
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

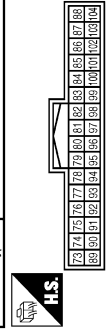
13	BR	SOUND SIGNAL REAR RH (+)
14	Y	SOUND SIGNAL REAR RH (-)
15	B	STG SW GND
16	L	STG SW B
19	Y	BATTERY
20	B	GND

Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH42FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	Y	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
21	SHIELD	MICROPHONE GND
21	R	MICROPHONE SIGNAL
35	G	IGNITION
36	V	PARKING BRAKE
37	O	REVERSE

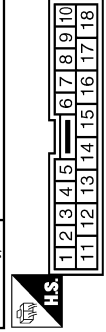
Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
79	R	iPod SOUND SIGNAL LH (+)
80	B	iPod SOUND SIGNAL RH (+)
85	SB	DISK EJECT SIGNAL
86	SHIELD	SHIELD
87	R	AUX SOUND SIGNAL LH (+)
88	W	AUX SOUND SIGNAL GND
95	W	AUX SOUND SIGNAL LH (-)
96	G	iPod SOUND SIGNAL RH (-)
102	BR	SW GND
103	B	AUX SOUND SIGNAL RH (+)

38	R	VEHICLE SPEED (8-PULSE)
40	W	CONNECTION RECOGNITION
41	B	CONTROL SIGNAL 1
42	B	CONTROL SIGNAL 2
43	GR	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
48	G	AV COMM (H)
49	R	AV COMM (L)
50	LG	AV COMM (H)
51	V	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSS



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	- [With NAVI]
3	G	- [With NAVI]
4	SHIELD	- [With NAVI]

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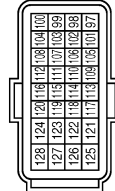
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[BOSE AUDIO WITH NAVIGATION]

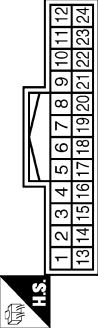
BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-R28-R-LH-Z



Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-L1
114	L	VEHCAN-H1

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	AGC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod->iPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	R	iPod SOUND SIGNAL RH (+)
13	W	iPod SOUND SIGNAL LH (-)

Connector No.	M114
Connector Name	FRONT SQUAWKER RH
Connector Type	TK02FBR

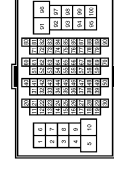


Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
18	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

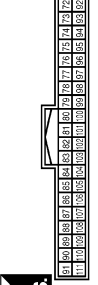
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	W	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	R	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
99	V	- [With BOSE audio]
100	SB	- [With BOSE audio]

Connector No.	M122
Connector Name	ECM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
91	L	CAN-L
		CAN-H

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY

Terminal No.	Color of Wire	Signal Name [Specification]
14	W	
15	L	
17	BR	

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	A08FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	AUX SOUND SIGNAL RH (+)
2	W	AUX SOUND SIGNAL GND
3	R	AUX SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	TH12MPH-BH

Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	
6	W	

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15

Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	
8	LG	

Connector No.	M374
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU

Terminal No.	Color of Wire	Signal Name [Specification]
1		

Connector No.	M373
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT5-1S-HU

Terminal No.	Color of Wire	Signal Name [Specification]
110		GPS ANTENNA
111	SHIELD	SHIELD

Connector No.	M372
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKRA JACK

Terminal No.	Color of Wire	Signal Name [Specification]
108		SAETLLITE ANTENNA

Connector No.	M371
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SH-2/1S-HU

Terminal No.	Color of Wire	Signal Name [Specification]
105		FM SUB
106		AM-FM MAIN
107		ANTENNA AMP. ON SIGNAL


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BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M377
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SON-2/1PP-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M395
Connector Name	WIRE TO WIRE
Connector Type	GT13SON-2/1PP-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M383
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU




Terminal No.	Color of Wire	Signal Name [Specification]
3	-	SAETLLITE ANTENNA

Connector No.	M382
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

















Connector No.	M380
Connector Name	WIRE TO WIRE
Connector Type	GT16-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

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BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

<table border="1"> <tr><td>Connector No.</td><td>M386</td></tr> <tr><td>Connector Name</td><td>ANTENNA BASE</td></tr> <tr><td>Connector Type</td><td>GT13SSN-1/PP-HU</td></tr> </table>  	Connector No.	M386	Connector Name	ANTENNA BASE	Connector Type	GT13SSN-1/PP-HU	<table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td></tr> <tr><td>Color of Wire</td><td>-</td><td>-</td></tr> <tr><td>Signal Name [Specification]</td><td>ANTENNA AMP_ON SIGNAL</td><td>AM-FM MAIN</td></tr> </table>	Terminal No.	1	2	Color of Wire	-	-	Signal Name [Specification]	ANTENNA AMP_ON SIGNAL	AM-FM MAIN																																																	
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<table border="1"> <tr><td>Connector No.</td><td>R1</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TK10FW-NS8</td></tr> </table>  	Connector No.	R1	Connector Name	WIRE TO WIRE	Connector Type	TK10FW-NS8	<table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>Color of Wire</td><td>R</td><td>G</td><td>G</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>Signal Name [Specification]</td><td>- [With NAV]</td><td>- [With NAV]</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </table>	Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Color of Wire	R	G	G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Signal Name [Specification]	- [With NAV]	- [With NAV]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Signal Name [Specification]	-	-	-																																																														
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Signal Name [Specification]	MICROPHONE SIGNAL	MICROPHONE GND	MICROPHONE YCC																																																														

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WITH AROUND VIEW MONITOR

WITH AROUND VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR -

Click here to view the eWD.
NOTE:

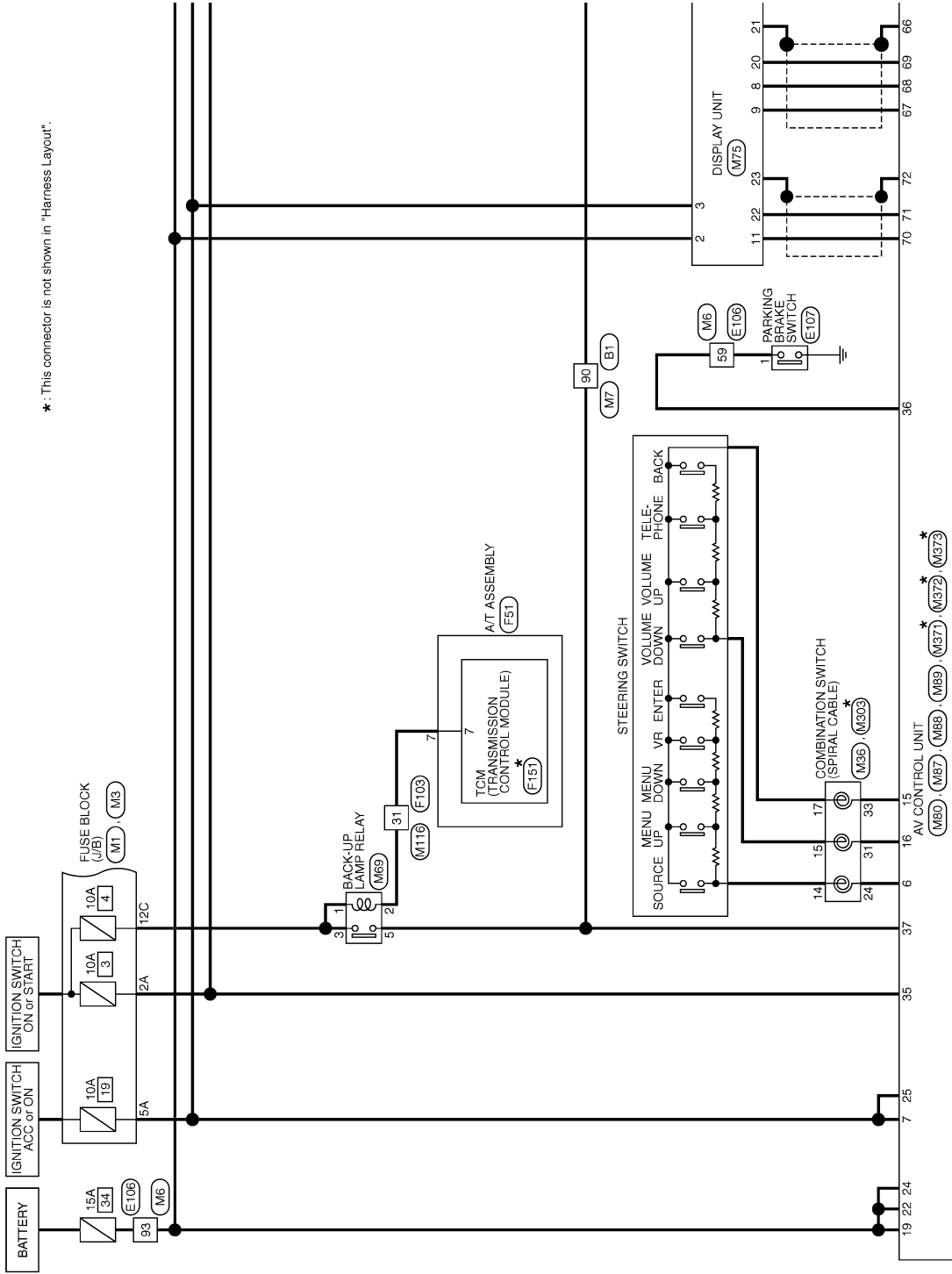
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[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR



*: This connector is not shown in "Harness Layout".

2007/10/26

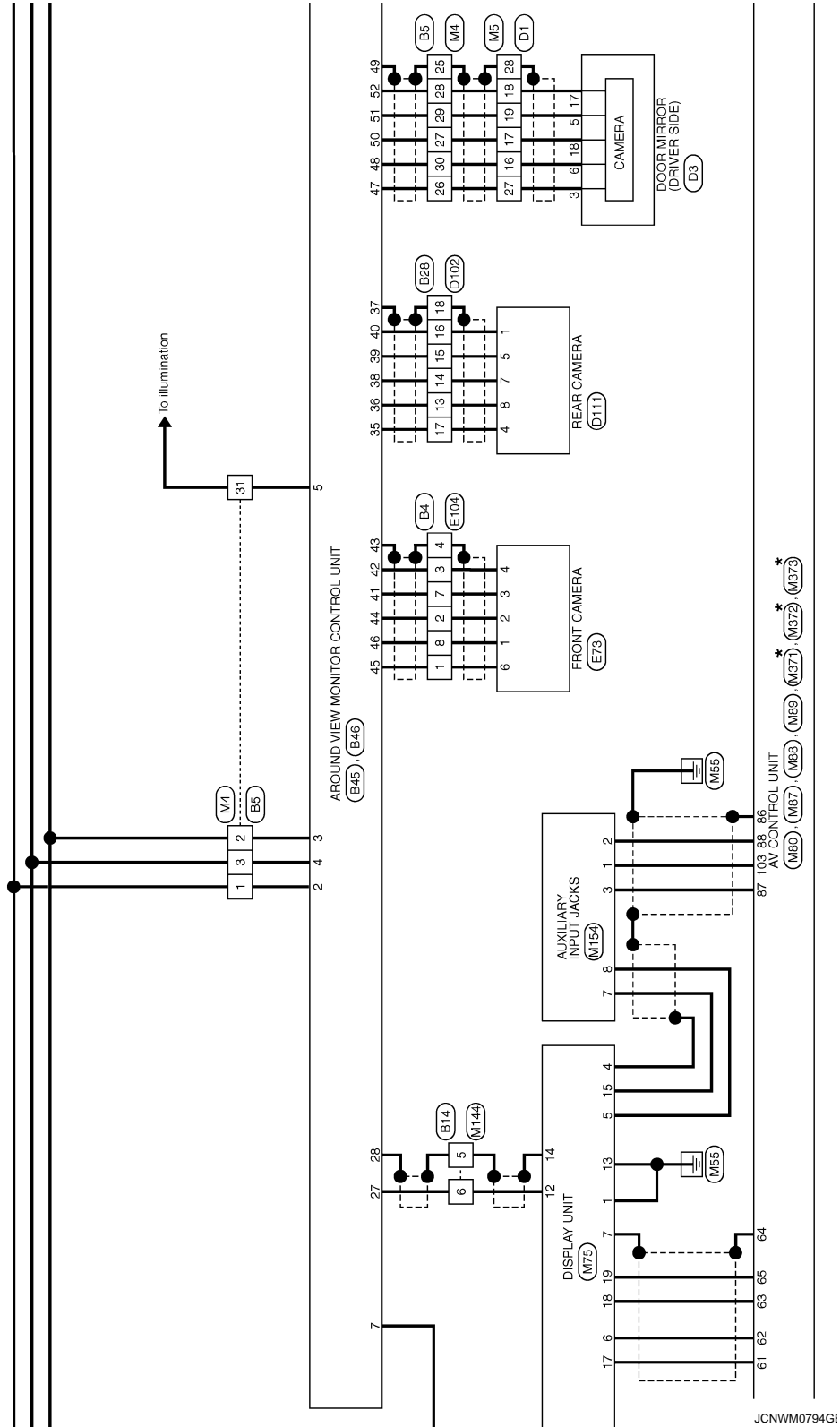
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* : This connector is not shown in "Harness Layout".



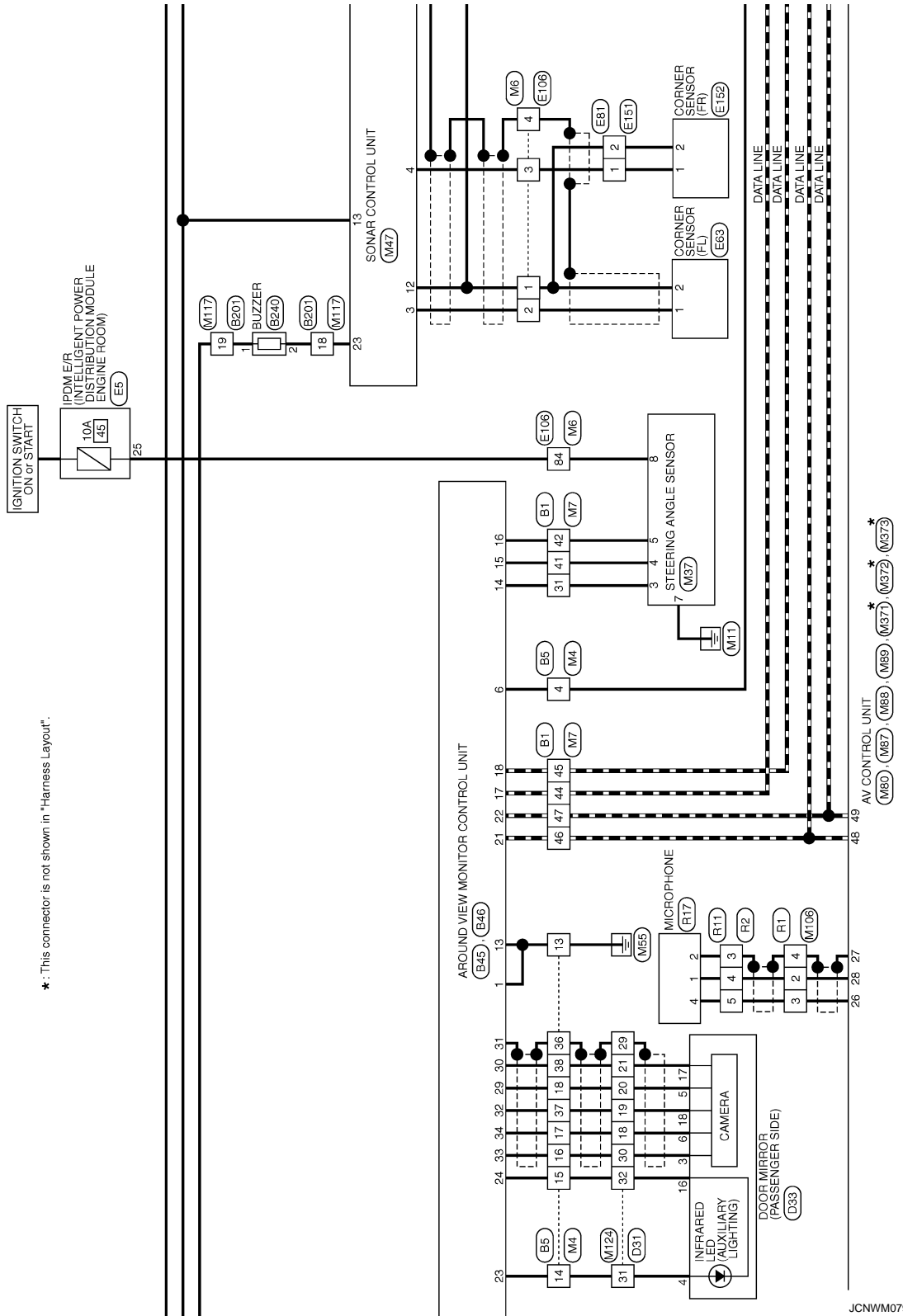
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DISPLAY UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >



*: This connector is not shown in "Harness Layout".

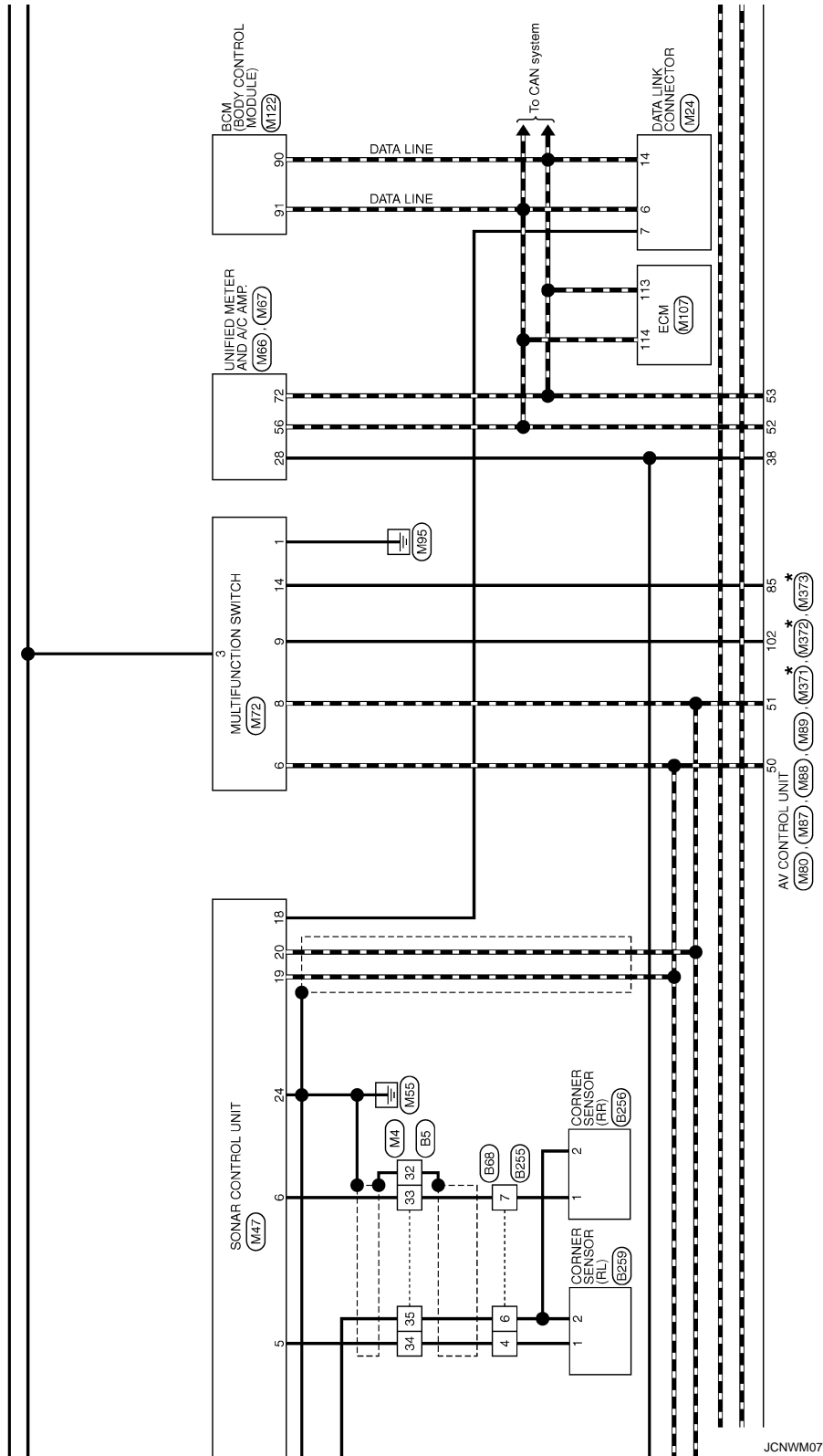
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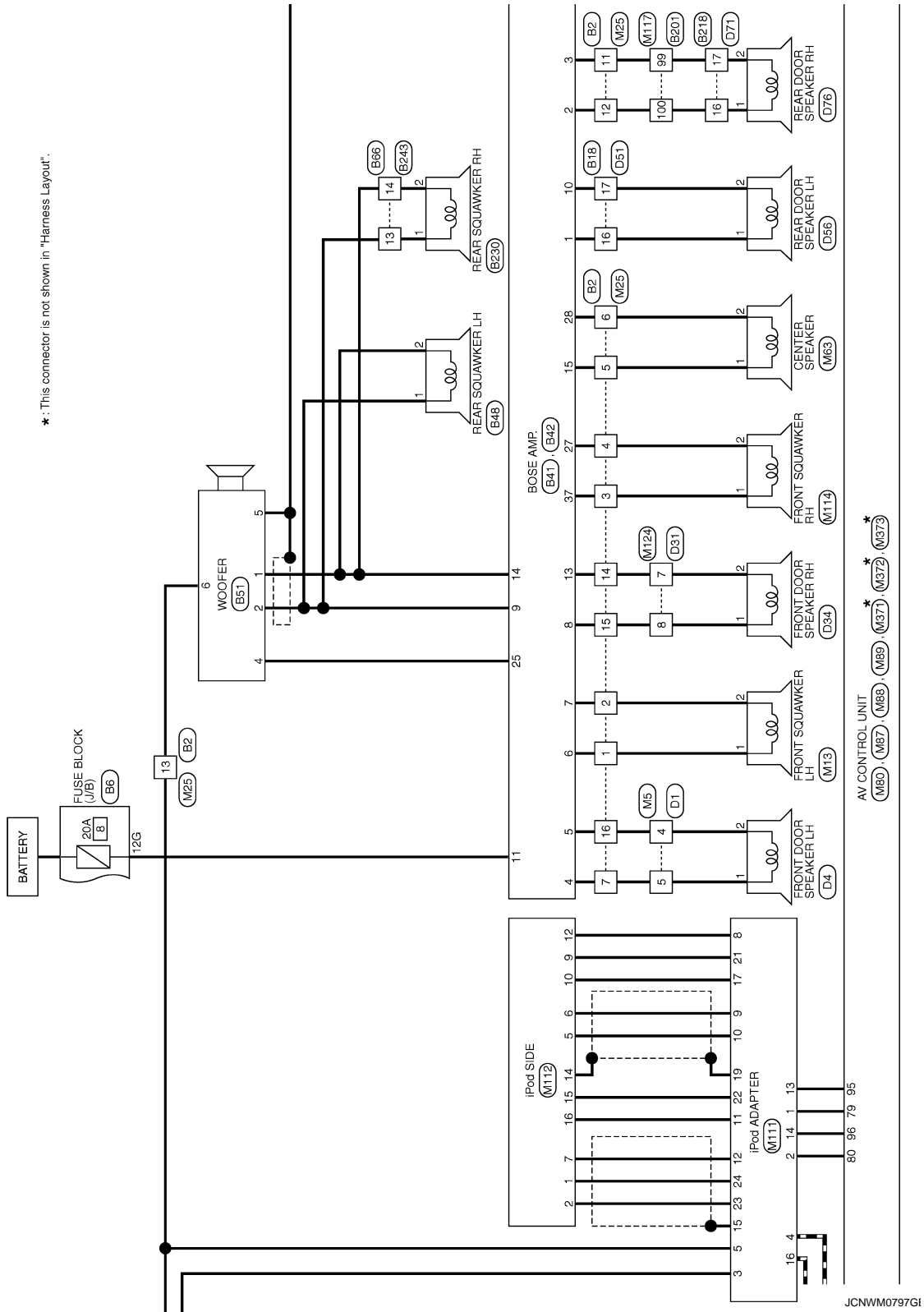
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< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

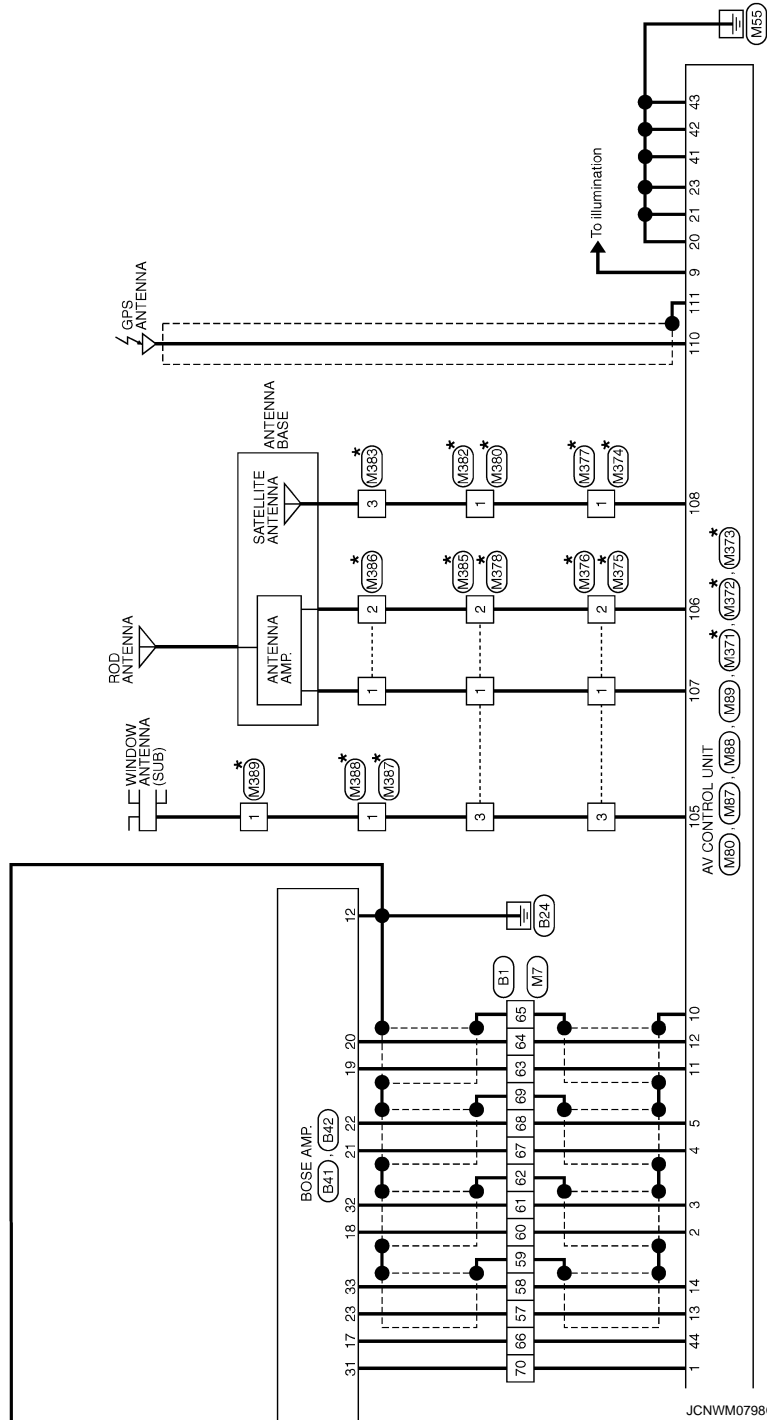


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[BOSE AUDIO WITH NAVIGATION]

*: This connector is not shown in "Harness Layout".



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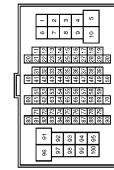
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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

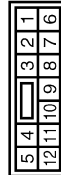
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
41	BR	-
42	R	-
44	G	- [With around view monitor]
45	Y	- [With around view monitor]
46	W	- [With around view monitor]
47	B	- [With around view monitor]
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-



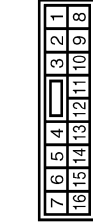
Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	B	-
3	G	-
4	SHIELD	-
7	Y	-
8	R	-

61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
90	O	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
6	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	P	-
3	GR	-
4	SB	-
13	B	-
14	LG	-
15	G	-
16	W	-
17	R	-
18	Y	-
25	SHIELD	-

15	LG	-
16	P	-

Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



Terminal No.	12G	Color of Wire	GR	Signal Name [Specification]	-
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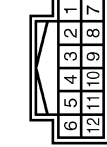
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[BOSE AUDIO WITH NAVIGATION]

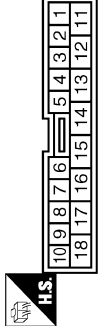
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12PW-RH



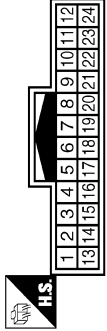
Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	
6	W	

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10PW-RSS



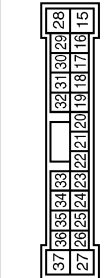
Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	[With BOSE audio]
17	G	[With BOSE audio]

Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-RH



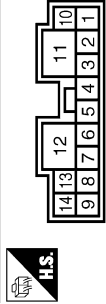
Terminal No.	Color of Wire	Signal Name [Specification]
13	BR	
14	R	[With around view monitor]
15	Y	[With around view monitor]
16	W	[With around view monitor]
17	L	[With around view monitor]
18	SHIELD	

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA10FBR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (+)
16	O	SOUND SIGNAL CENTER (-)
17	O	MODE CHANGE SIGNAL
18	P	SOUND SIGNAL FRONT LH (+)
19	R	SOUND SIGNAL FRONT RH (+)
20	G	SOUND SIGNAL FRONT LH (-)
21	V	SOUND SIGNAL REAR LH (+)
22	SB	SOUND SIGNAL REAR LH (-)
23	BR	SOUND SIGNAL REAR RH (+)
24	GR	SOUND SIGNAL REAR RH (-)
25	GR	WOOFER AMP. ON SIGNAL
27	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (-)

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA12FBR-SJA2



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (+)
3	V	SOUND SIGNAL REAR DOOR RH (-)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
6	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)
10	G	SOUND SIGNAL REAR DOOR LH (+)
11	GR	SOUND SIGNAL REAR DOOR LH (-)

12	B	GND
13	Y	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)
14	R	SOUND SIGNAL WOOFER (-)

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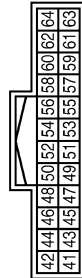
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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	B45
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH24PW-NH

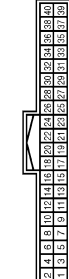
Terminal No.	Color of Wire	Signal Name [Specification]
42	L	FRONT CAMERA IMAGE SIGNAL
43	G	FRONT CAMERA IMAGE GND
44	B	SHIELD
45	W	FRONT CAMERA GND
46	R	FRONT CAMERA COMM
47	L	FRONT CAMERA POWER SUPPLY
48	BR	FRONT CAMERA LH COMM
49	SHIELD	FRONT CAMERA LH POWER SUPPLY
50	R	SHIELD
51	Y	FRONT CAMERA LH IMAGE SIGNAL



52	W	SIDE CAMERA LH IMAGE GND
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Connector No.	B46
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	P	IGNITION
4	GR	ACC
5	O	ILLUMINATION
6	SB	VEHICLE SPEED (+PULSE)
7	G	REVERSE
13	B	CONTROL SIGNAL
14	L	SENSOR SIGNAL 1
15	BR	SENSOR SIGNAL 2
16	R	SENSOR SIGNAL 3



17	G	AV COMM (H)
18	Y	AV COMM (L)
21	W	AV COMM (H)
22	W	AV COMM (L)
23	LG	LED (+)
24	G	LED (-)
27	W	CAMERA IMAGE SIGNAL
28	SHIELD	CAMERA IMAGE GND
29	Y	SIDE CAMERA RH IMAGE SIGNAL
30	G	SIDE CAMERA RH IMAGE GND
31	SHIELD	SHIELD
32	B	SIDE CAMERA RH GND
33	W	SIDE CAMERA RH COMM
34	R	SIDE CAMERA RH POWER SUPPLY
35	L	REAR CAMERA COMM
36	BR	REAR CAMERA POWER SUPPLY
37	SHIELD	SHIELD
38	R	REAR CAMERA GND
39	Y	REAR CAMERA IMAGE SIGNAL
40	W	REAR CAMERA IMAGE GND

Connector No.	B48
Connector Name	REAR SPEAKER LH
Connector Type	TK02FB



Connector No.	B51
Connector Name	WOOFER
Connector Type	RS00FGY-PR



Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	—
2	W	—

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	W	BATTERY

Connector No.	B68
Connector Name	WIRE TO WIRE
Connector Type	RH08ME



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	— [With around view monitor]
6	B	— [With around view monitor]
7	W	— [With around view monitor]



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< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]



BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	B240
Connector Name	BUZZER
Connector Type	RK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	
2	GR	

Connector No.	B230
Connector Name	REAR SQUAWKER RH
Connector Type	TK02FBR


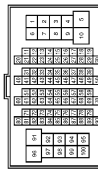
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK10PW-HSS



Terminal No.	Color of Wire	Signal Name [Specification]
16	L	
17	O	[With BOSE audio]

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	THB0FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
18	GR	
98	P	
100	L	[With BOSE audio]

Connector No.	B239
Connector Name	CORNER SENSOR (RL)
Connector Type	YDX02FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	
2	B	

Connector No.	B236
Connector Name	CORNER SENSOR (RR)
Connector Type	YDX02FB


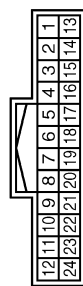
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	
2	B	

Connector No.	B255
Connector Name	WIRE TO WIRE
Connector Type	RH06FB

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	
6	B	
7	R	

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
13	L	
14	W	

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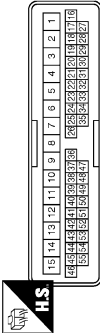
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[BOSE AUDIO WITH NAVIGATION]

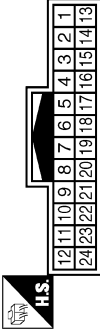
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



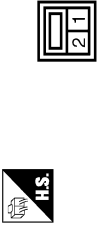
Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
5	L	-
16	R	-
17	W	-
18	G	-
19	Y	-
27	B	-
28	SHIELD	-

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH



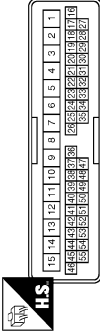
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	-
5	Y	-
6	R	-
17	G	-
18	W	-

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)
Connector Type	NS02FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



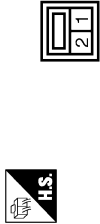
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	BR	-
18	R	-
19	Y	-
20	B	- [With around-view monitor]
21	G	- [With around-view monitor]
29	SHIELD	-
30	W	-
31	LG	-
32	BR	-

Connector No.	D33
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH24MW-NH



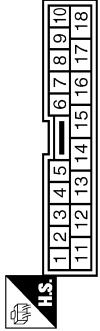
Terminal No.	Color of Wire	Signal Name [Specification]
3	W	-
4	LG	-
5	B	-
6	R	-
16	BR	-
17	G	-
18	Y	-

Connector No.	D34
Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)
Connector Type	NS02FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	R	-

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TK 0MW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

Connector No.	D56
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS02FBR-CS

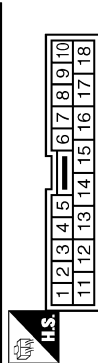


Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

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BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSS



Terminal No.	Color of Wire	Signal Name [Specification]
16	L	-
17	Y	-

Connector No.	D76
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS02FER-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



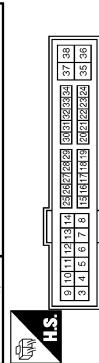
Terminal No.	Color of Wire	Signal Name [Specification]
13	R	-
14	L	- [With around view monitor]
15	Y	-
16	G	- [With around view monitor]
17	W	- [With around view monitor]
18	SHIELD	-

Connector No.	D111
Connector Name	REAR CAMERA
Connector Type	TH08MMF-NH

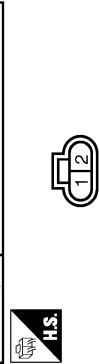


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR CAMERA IMAGE GND
4	W	REAR CAMERA COMM
5	Y	REAR CAMERA IMAGE SIGNAL
7	L	REAR CAMERA GND
8	R	REAR CAMERA POWER SUPPLY

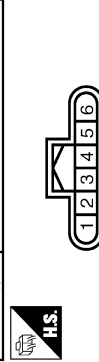
Connector No.	E5
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-TV



Connector No.	E63
Connector Name	CORNER SENSOR (FL)
Connector Type	YDX02FB



Connector No.	E73
Connector Name	FRONT CAMERA
Connector Type	RH06FB



Connector No.	E81
Connector Name	WIRE TO WIRE
Connector Type	RS02MB



Terminal No.	Color of Wire	Signal Name [Specification]
25	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	B	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	FRONT CAMERA POWER SUPPLY
2	BR	FRONT CAMERA GND
3	Y	FRONT CAMERA IMAGE SIGNAL
4	L	FRONT CAMERA IMAGE GND
6	W	FRONT CAMERA COMM

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	L	-

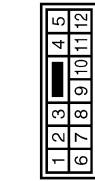
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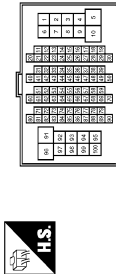
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	E104
Connector Name	WIRE TO WIRE
Connector Type	HS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	BR	-
3	L	-
4	SHIELD	-
7	Y	-
8	R	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TK8FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	W	-
3	R	-
4	GR	-
5	O	-
8	G	-
9	Y	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB01FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	E151
Connector Name	WIRE TO WIRE
Connector Type	RS02FB



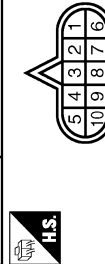
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	B	-

Connector No.	E152
Connector Name	CORNER SENSOR (FR)
Connector Type	YDX02FE



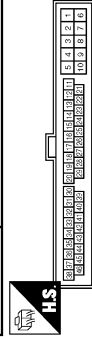
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	B	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



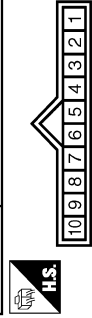
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK38FW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
31	R	-

Connector No.	F151
Connector Name	TGM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FBGY



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

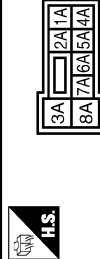
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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

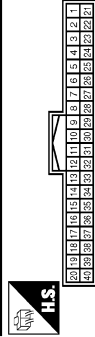
Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NSDBFW-M2



Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Connector No.	M4
Connector Name	WIRE TO WIRE
Connector Type	TH4DFW-NH



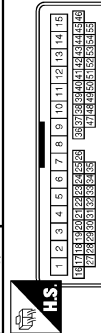
26	W	-
27	B	-
28	G	-
29	Y	-
30	R	-
31	R	-
32	SHIELD	-
33	R	-
34	W	-
35	B	-
36	SHIELD	-
37	B	-
38	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	V	-

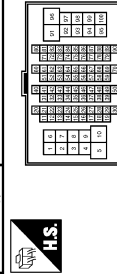
Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	P	-
3	V	-
4	V	-
12	B	-
14	LG	-
15	G	-
16	W	-
17	R	-
18	Y	-
25	SHIELD	-

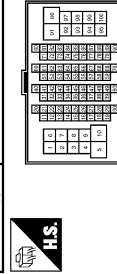
Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SB	-
67	V	-
68	SB	-
69	SHIELD	-
70	V	-
80	O	-

Terminal No.	Color of Wire	Signal Name [Specification]
4	P	-
5	L	-
16	R	-
17	B	-
18	G	-
19	Y	-
27	W	-
28	SHIELD	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	R	-
3	W	-
4	SHIELD	-
59	V	-
84	G	-
93	Y	-

Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
41	BR	-
42	R	-
44	LG	-
45	V	-
46	G	-
47	R	-
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M13
Connector Name	FRONT SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	
7	V	
14	P	

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-GS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	
3	V	
4	LG	
5	Y	
6	G	
7	L	
11	V	
12	SB	
13	Y	
14	Y	

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-TV



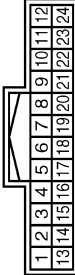
Terminal No.	Color of Wire	Signal Name [Specification]
24	P	
31	L	
33	B	

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN

Connector No.	M47
Connector Name	SONAR CONTROL UNIT
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	R	CORNER SENSOR FRONT LH
4	W	CORNER SENSOR FRONT RH
5	W	CORNER SENSOR REAR LH
6	R	CORNER SENSOR REAR RH
12	B	SENSOR GND
13	V	ACC
18	O	K LINE
19	G	AV COMM (H)
20	R	AV COMM (L)
23	GR	BULLZER
24	B	GND

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	
2	G	

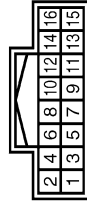
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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



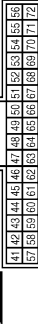
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	V	AGC
6	LG	AV COMM (H)
8	V	AV COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS2FL-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	LG	-
3	LG	-
5	O	-

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH46FW-NH



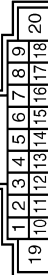
Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
13	B	GND
14	SHIELD	SHIELD
15	G	AUX IMAGE SIGNAL
17	B	RGB (R RED) SIGNAL
18	R	RGB (B BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DSP->CONT)
23	SHIELD	SHIELD

Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-GS2



Terminal No.	Color of Wire	Signal Name [Specification]
13	BR	SOUND SIGNAL REAR RH (+)
14	Y	SOUND SIGNAL REAR RH (-)
15	B	STRG SW GND
16	L	STRG SW B
19	Y	BATTERY
20	B	GND

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	V	ACC
4	SHIELD	SHIELD
5	R	AUX IMAGE GND
6	W	RGB (G GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (VS) SIGNAL
11	BR	COMM (CONT->DSP)
12	W	CAMERA IMAGE SIGNAL

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	AMP_ON SIGNAL
2	P	SOUND SIGNAL FRONT LH (+)
3	L	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	SB	SOUND SIGNAL REAR LH (-)
6	P	STRG SW A
7	V	ACC
9	R	ILLUMINATION
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (+)
12	G	SOUND SIGNAL FRONT RH (-)

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[BOSE AUDIO WITH NAVIGATION]

72	SHIELD	SHIELD
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Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



62	64	66	68	70	72
61	63	65	67	69	71

Terminal No.	Color of Wire	Signal Name [Specification]
61	B	RGB (R: RED) SIGNAL
62	W	RGB (G: GREEN) SIGNAL
63	R	RGB (B: BLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (VS) SIGNAL
68	R	I/P
69	W	V/P
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-R28-R-LH-Z



128	124	120	116	112	108	104	100
127	123	119	115	111	107	103	99
126	122	118	114	110	106	102	98
125	121	117	113	109	105	101	97

Terminal No.	Color of Wire	Signal Name [Specification]
T13	P	VEHCAN-L1
T14	L	VEHCAN-H1

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

38	R	VEHICLE SPEED (8-PULSE)
41	B	CONTROL SIGNAL 1
42	B	CONTROL SIGNAL 2
43	GR	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
48	G	AV COMM (H)
49	R	AV COMM (L)
50	LG	AV COMM (H)
51	V	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH40FW-NH



21	22	23	24	25	26	27	28	35	36	37
20	19	18	17	16	15	14	13	12	11	10
9	8	7	6	5	4	3	2	1	0	

Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	Y	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
35	G	IGNITION
36	V	PARKING BRAKE
37	O	REVERSE

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSB



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

Terminal No.	Color of Wire	Signal Name [Specification]
2	R	-- [With NAVI]
3	G	-- [With NAVI]
4	SHIELD	-- [With NAVI]

Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH82FW-NH



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	101	102	103	104

Terminal No.	Color of Wire	Signal Name [Specification]
78	R	Pod SOUND SIGNAL LH (+)
80	B	Pod SOUND SIGNAL RH (+)
85	SB	DISK EJECT SIGNAL
86	SHIELD	SHIELD
87	R	AUX SOUND SIGNAL LH (+)
88	W	AUX SOUND SIGNAL GND
95	W	Pod SOUND SIGNAL LH (+)
96	G	Pod SOUND SIGNAL RH (+)
102	BR	SW GND
103	B	AUX SOUND SIGNAL RH (+)

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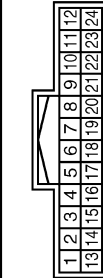
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[BOSE AUDIO WITH NAVIGATION]

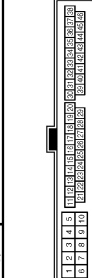
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod->iPod ADAPTER)
11	O	ACCESSORY IDENTITY
12	R	iPod SOUND SIGNAL RH (+)
13	W	iPod SOUND SIGNAL LH (-)

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK35MW-NS10

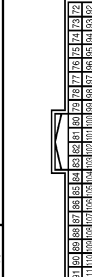


Terminal No.	Color of Wire	Signal Name [Specification]
31	W	-

14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	GR	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

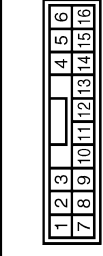
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (-)
2	W	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	R	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTITY

Connector No.	M122
Connector Name	BCM BODY CONTROL MODULE
Connector Type	TH4JFB-NH



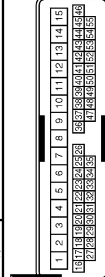
Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP1BEFY



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH4DMV-CS15



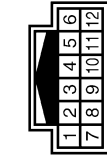
Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	LG	-
18	R	-
19	B	-
20	Y	- [With around view monitor]
21	G	- [With around view monitor]
29	SHIELD	-
30	W	-
31	LG	-
32	G	-

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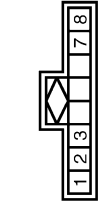
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	THZ2WV-NH



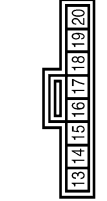
Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	
6	W	

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB8FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	AUX SOUND SIGNAL RH (+)
2	W	AUX SOUND SIGNAL GND
3	R	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	TK6BEGY



Terminal No.	Color of Wire	Signal Name [Specification]
14	W	
15	L	
17	BR	

Connector No.	M371
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SH-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
105	-	FM SUB
106	-	AM-FM MAIN
107	-	ANTENNA AMP. ON SIGNAL

Connector No.	M372
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKRA JACK



Terminal No.	Color of Wire	Signal Name [Specification]
108	-	SAATELLITE ANTENNA

Connector No.	M373
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT5-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
110	-	GPS ANTENNA
111	SHIELD	SHIELD

Connector No.	M374
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	
2	-	
3	-	

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M376	Connector No.	M377	Connector No.	M378	Connector No.	M380
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU	Connector Type	GT16C-1PP-HU	Connector Type	GT13SC-2/1S-HU	Connector Type	GT16-1S-HU

Terminal No.	1	2	3	Terminal No.	1	2
Color of Wire	-	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	-	Signal Name [Specification]	-	-

Terminal No.	1	2	3	Terminal No.	1	2
Color of Wire	-	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	-	Signal Name [Specification]	-	-

Terminal No.	1	2	3	Terminal No.	1	2
Color of Wire	-	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	-	Signal Name [Specification]	-	-

Connector No.	M382	Connector No.	M383	Connector No.	M385	Connector No.	M386
Connector Name	WIRE TO WIRE	Connector Name	ANTENNA BASE	Connector Name	WIRE TO WIRE	Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU	Connector Type	GT16C-1PP-HU	Connector Type	GT13SCN-2/1PP-HU	Connector Type	GT13SSN-1/1PP-HU

Terminal No.	1	2	3	Terminal No.	1	2
Color of Wire	-	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	-	Signal Name [Specification]	-	-

Terminal No.	1	2	3	Terminal No.	1	2
Color of Wire	-	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	-	Signal Name [Specification]	-	-

Terminal No.	1	2	3	Terminal No.	1	2
Color of Wire	-	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	-	Signal Name [Specification]	-	-

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M337
Connector Name	WIRE TO WIRE
Connector Type	JASO JACK



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M388
Connector Name	WIRE TO WIRE
Connector Type	JASO PLUG



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M389
Connector Name	WINDOW ANTENNA (SUB)
Connector Type	F01FB-A



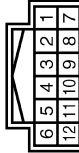
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	RT
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NBS



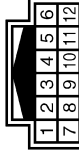
Terminal No.	Color of Wire	Signal Name [Specification]
2	R	- [With NAVI]
3	G	- [With NAVI]
4	SHIELD	-

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	R	- [With NAVI]
5	G	- [With NAVI]

Connector No.	RT1
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	-
5	R	-

Connector No.	RT7
Connector Name	MICROPHONE
Connector Type	TKG4FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
4	R	MICROPHONE VCC

BOSE AMP.

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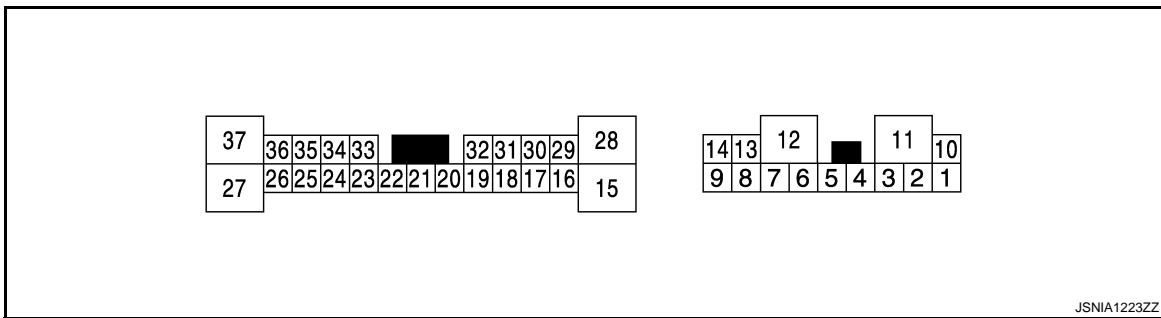
[BOSE AUDIO WITH NAVIGATION]

BOSE AMP.

Reference Value

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TERMINAL LAYOUT



PHYSICAL VALUES

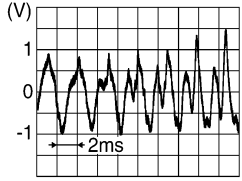
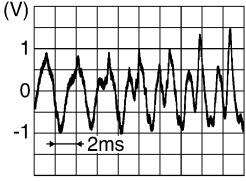
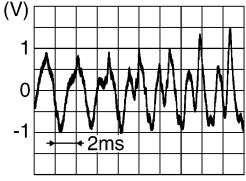
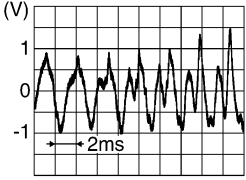
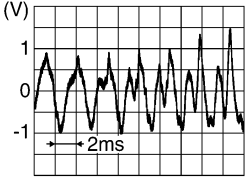
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (Y)	10 (G)	Sound signal rear door speaker LH	Output	Ignition switch ON	Audio output	
2 (SB)	3 (V)	Sound signal rear door speaker RH	Output	Ignition switch ON	Audio output	
4 (B)	5 (P)	Sound signal front door speaker LH	Output	Ignition switch ON	Audio output	
6 (L)	7 (W)	Sound signal front squawk- er LH	Output	Ignition switch ON	Audio output	

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BOSE AMP.

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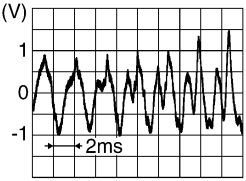
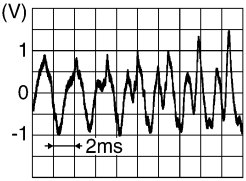
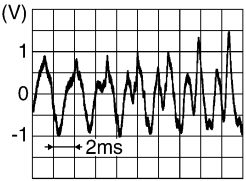
[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
8 (LG)	13 (Y)	Sound signal front door speaker RH	Output	Ignition switch ON	Audio output	 SKIB3609E
9 (G)	14 (R)	Sound signal woofer and rear squawker (LH and RH)	Output	Ignition switch ON	Audio output	 SKIB3609E
11 (GR)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
12 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
15 (B)	28 (G)	Sound signal center speaker	Output	Ignition switch ON	Audio output	 SKIB3609E
17 (O)	Ground	Mode change signal	Input	Ignition switch ON	Driver's Audio Stage ON	0 V
					Driver's Audio Stage OFF	8.5 V
18 (P)	32 (L)	Sound signal front LH	Input	Ignition switch ON	Audio output	 SKIB3609E
19 (R)	20 (G)	Sound signal front RH	Input	Ignition switch ON	Audio output	 SKIB3609E

BOSE AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH 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	Audio output	 SKIB3609E
23 (BR)	33 (Y)	Sound signal rear RH	Input	Ignition switch ON	Audio output	 SKIB3609E
25 (GR)	Ground	Woofer amp. ON signal	Output	Ignition switch ACC	—	12.0 V
37 (BR)	27 (R)	Sound signal front squaw- ker RH	Output	Ignition switch ON	Audio output	 SKIB3609E
31 (W)	Ground	Amp. ON signal	Input	Ignition switch ACC	—	12.0 V

WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR

WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR : Wiring Diagram
- BOSE AUDIO WITH NAVIGATION -

INFOID:000000003737131

[Click here to view the eWD.](#)

NOTE:

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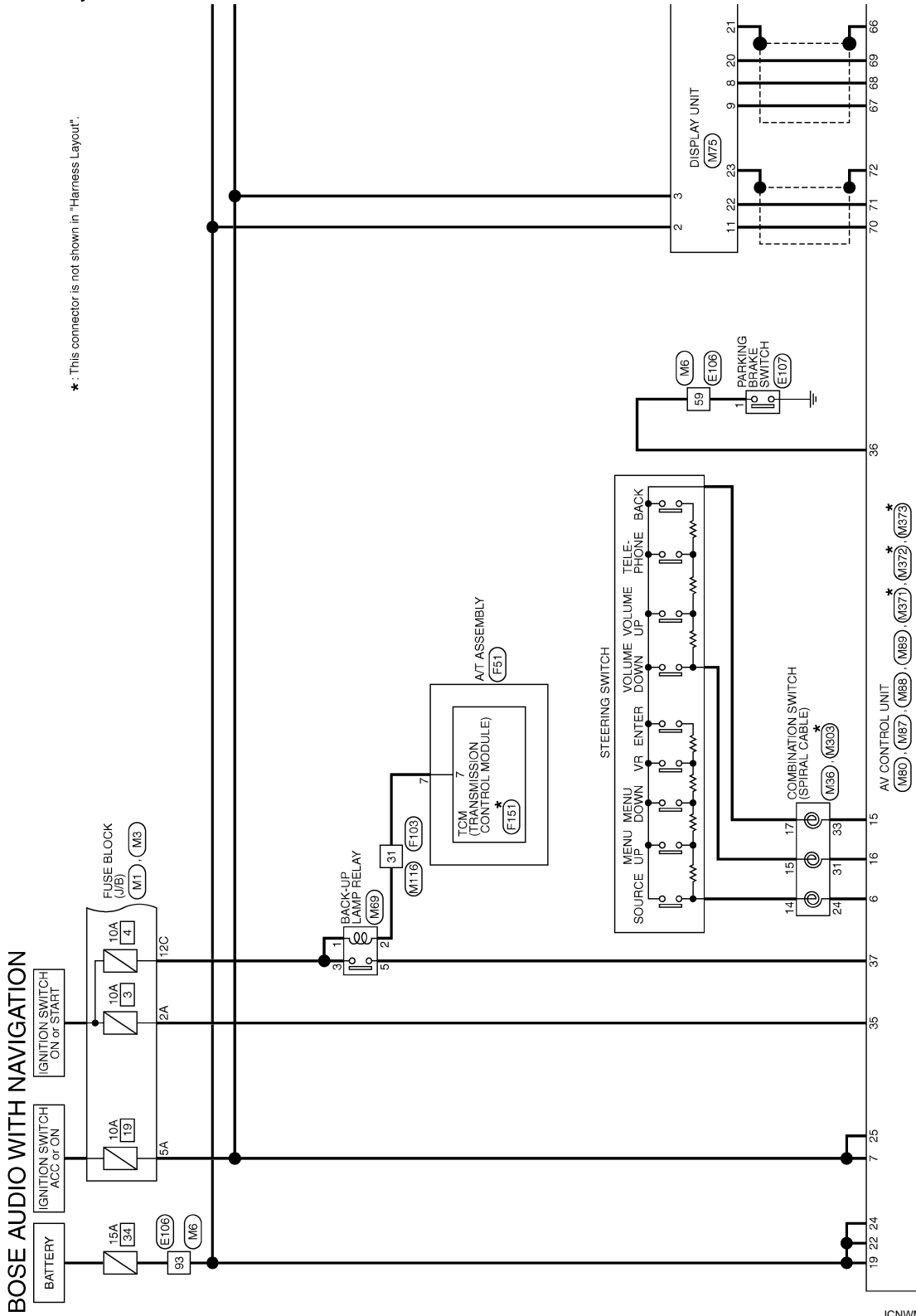
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BOSE AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.



*: This connector is not shown in "Harness Layout".

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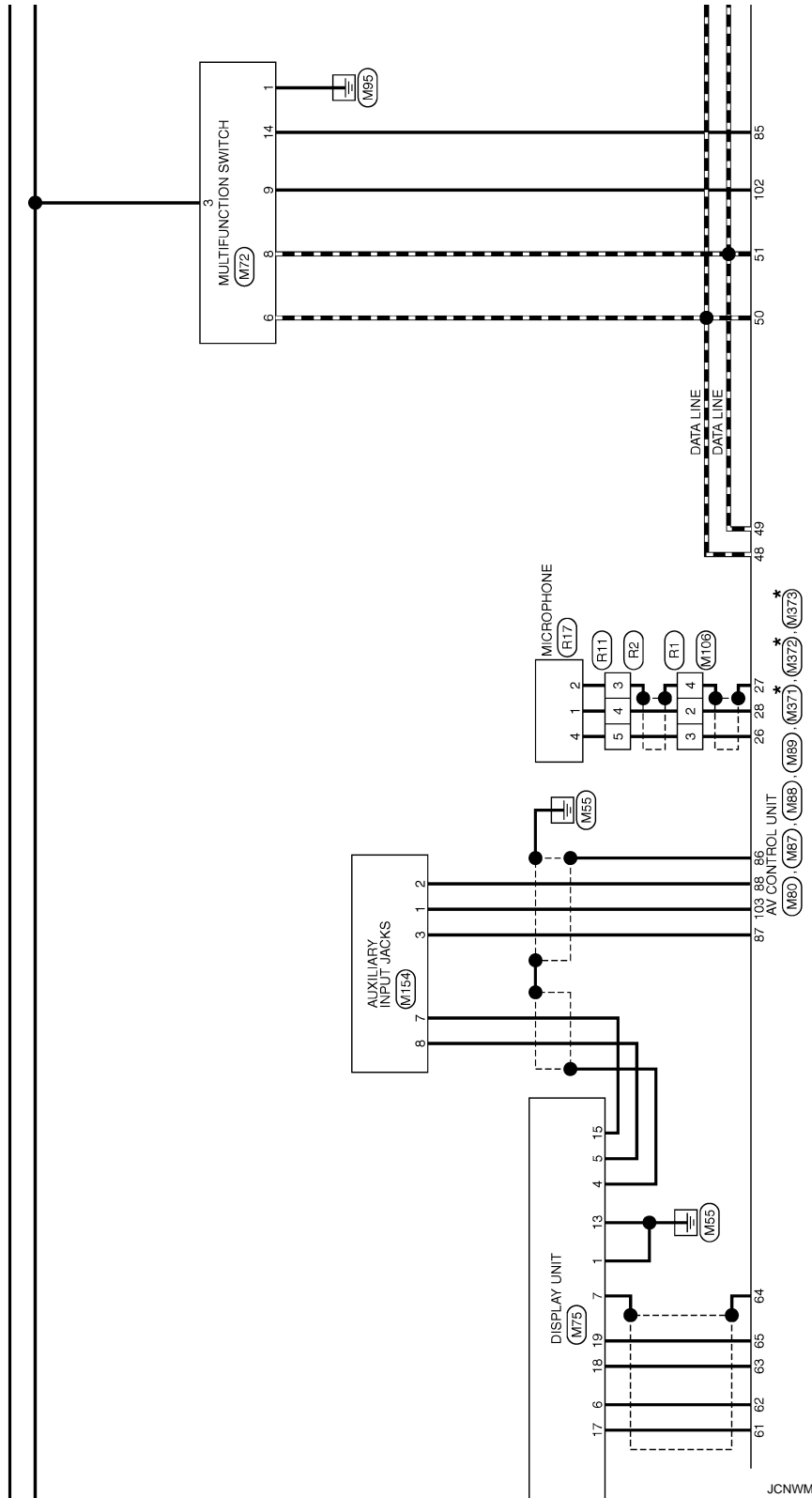
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BOSE AMP.

[BOSE AUDIO WITH NAVIGATION]

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*: This connector is not shown in "Harness Layout".



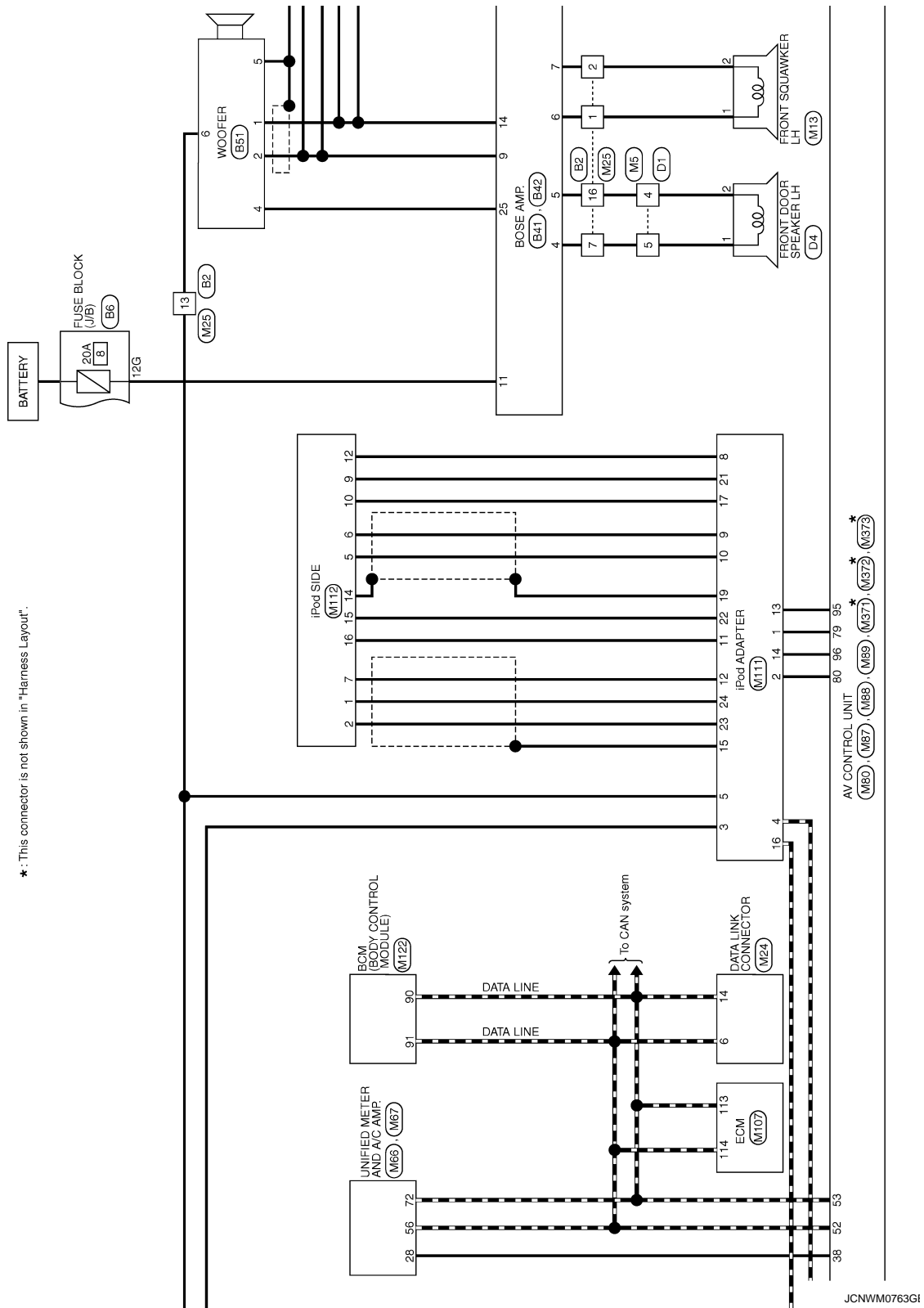
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[BOSE AUDIO WITH NAVIGATION]

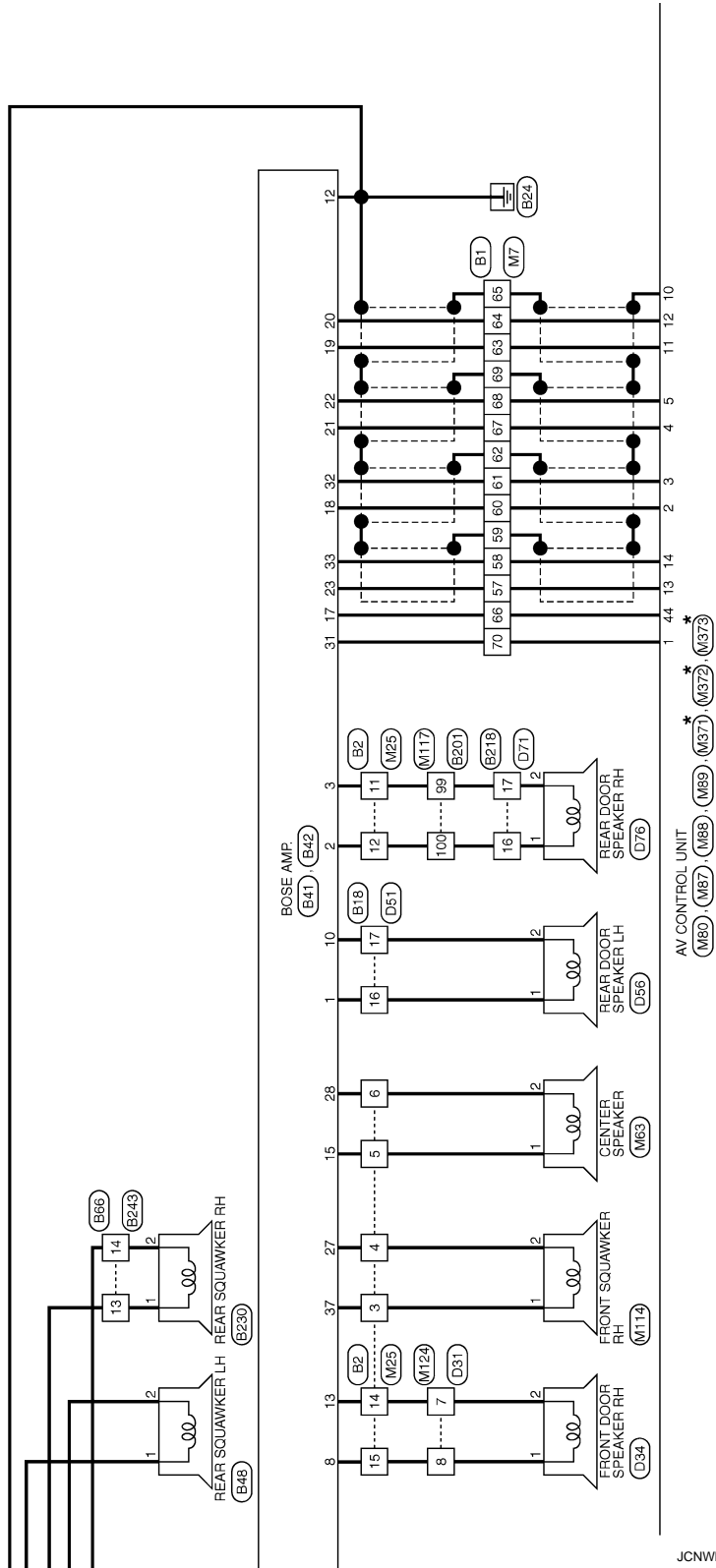


BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]

*: This connector is not shown in "Harness Layout".



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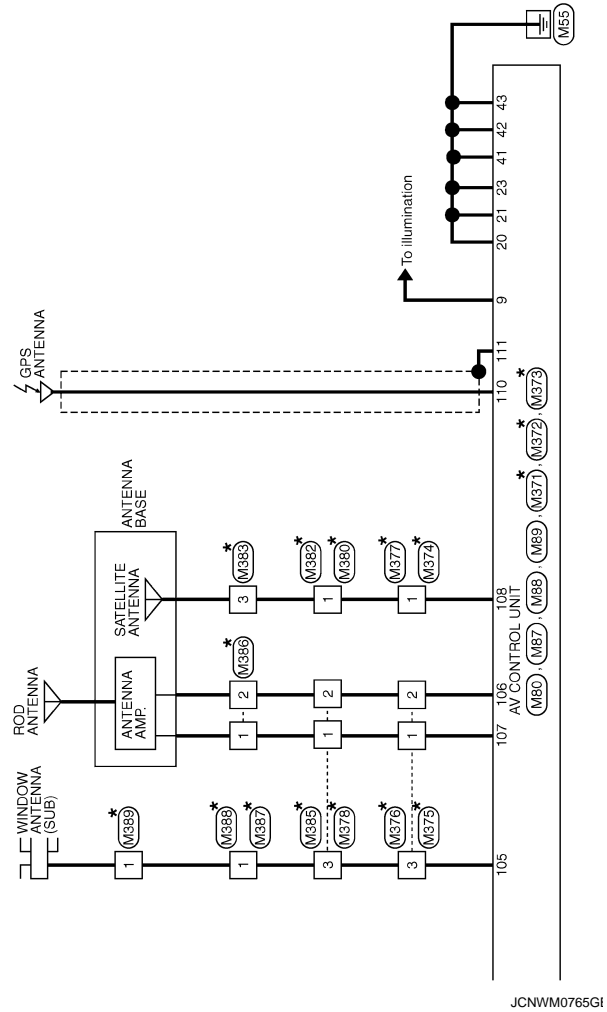
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BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]

*: This connector is not shown in "Harness Layout".



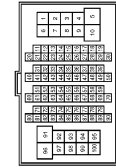
BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	THB0FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-

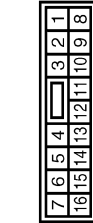
Connector No.	BB
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBF-CS



68	SR	-
69	SHIELD	-
70	W	-



Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
6	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (-)
17	O	MODE CHANGE SIGNAL
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	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (-)

31	W	AMP. ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	BR	SOUND SIGNAL FRONT SQUAWKER RH (+)

15	LG	-
16	P	-

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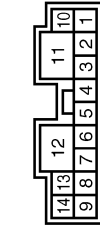
BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA12PBR-SJA2



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (+)
3	V	SOUND SIGNAL REAR DOOR RH (-)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
6	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL WOOFER (+)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	TH42MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
13	L	
14	W	

12	B	GND
13	Y	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)
14	R	SOUND SIGNAL WOOFER (-)



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	



Connector No.	B48
Connector Name	REAR SQUAWKER LH
Connector Type	TK02FBR



Connector No.	B51
Connector Name	WOOFER
Connector Type	RS06FGY-PR



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	W	BATTERY



Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK0FW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
16	L	
17	O	- [With BOSE audio]

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
99	O	- [With BOSE audio]
100	L	

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION

Connector No.	B243	Connector No.	D1	Connector No.	D31
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH	Connector Type	TH4QFW-CS15	Connector Type	TH4QFW-CS15

Terminal No.	12	13	14	15	16	17	18	19	20	21	22	23	24
Color of Wire	L	L	W	L	W	L	W	L	W	L	W	L	W
Signal Name [Specification]													

Terminal No.	1	2
Color of Wire	L	W
Signal Name [Specification]		

Terminal No.	4	5
Color of Wire	W	L
Signal Name [Specification]		

Terminal No.	7	8
Color of Wire	R	BR
Signal Name [Specification]		

Connector No.	D34
Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)
Connector Type	NS02FBR-CS

Terminal No.	1	2
Color of Wire	BR	R
Signal Name [Specification]		

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8

Terminal No.	1	2	3	4	5	6	7	8	9	10
Color of Wire	Y	G	L	Y	G	L	Y	G	L	Y
Signal Name [Specification]										

Terminal No.	16	17
Color of Wire	Y	G
Signal Name [Specification]		

Connector No.	D56
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS02FBR-CS

Terminal No.	1	2
Color of Wire	Y	G
Signal Name [Specification]		

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)
Connector Type	NS02FBR-CS

Terminal No.	1	2
Color of Wire	L	W
Signal Name [Specification]		

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8

Terminal No.	1	2	3	4	5	6	7	8	9	10
Color of Wire	L	L	L	L	L	L	L	L	L	L
Signal Name [Specification]										

Terminal No.	16	17
Color of Wire	L	Y
Signal Name [Specification]		

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[BOSE AUDIO WITH NAVIGATION]

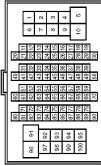
BOSE AUDIO WITH NAVIGATION

Connector No.	D76
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS2ZFB-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH8FW-CS16-TM4



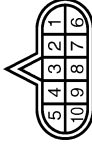
Terminal No.	Color of Wire	Signal Name [Specification]
59	O	-
93	Y	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB01FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK35FW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
31	R	-

Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SPI0FBGY



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REVLAMP RLY

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-MZ



Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	V	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

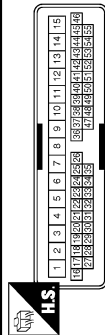
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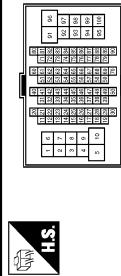
BOSE AUDIO WITH NAVIGATION

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS15



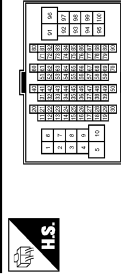
Terminal No.	Color of Wire	Signal Name [Specification]
4	P	-
5	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



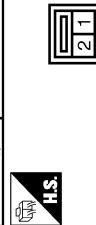
Terminal No.	Color of Wire	Signal Name [Specification]
59	V	-
93	Y	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

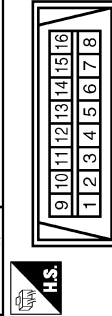


Terminal No.	Color of Wire	Signal Name [Specification]
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SB	-
67	V	-

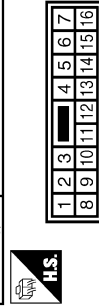
Connector No.	M13
Connector Name	FRONT SQUAWKER LH
Connector Type	TK02FBR



Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD18FW



Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	V	-
4	LG	-
5	Y	-
6	G	-
7	L	-
11	V	-
12	SB	-
13	Y	-
14	Y	-

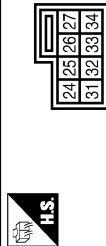
68	SR
69	SHIELD
70	V

15	LG
16	P

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BOSE AUDIO WITH NAVIGATION

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08GY-IV



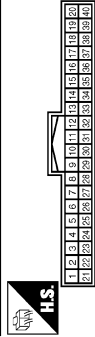
Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
31	L	-
33	B	-

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



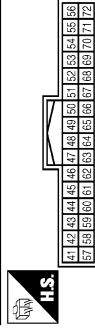
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



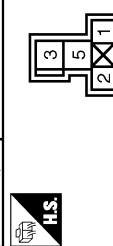
Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



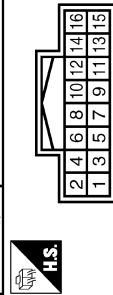
Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2



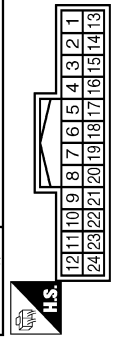
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	B	ACC
3	V	AV COMM (H)
6	LG	AV COMM (L)
8	V	SW GND
9	BR	DISK EJECT SIGNAL
14	SB	-

Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH



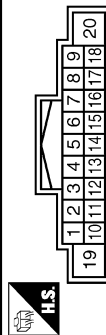
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	V	ACC
4	SHIELD	SHIELD
5	R	AUX IMAGE GND
6	W	RGB (G, GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (VS) SIGNAL
11	BR	COMM (CONT->DISP)
13	B	GND

Terminal No.	Color of Wire	Signal Name [Specification]
15	G	AUX IMAGE SIGNAL
17	B	RGB (R, RED) SIGNAL
18	R	RGB (B, BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

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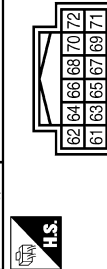
BOSE AUDIO WITH NAVIGATION

Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-CSZ



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	AMP_ON SIGNAL
2	P	SOUND SIGNAL FRONT LH (+)
3	L	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	SB	SOUND SIGNAL REAR LH (-)
6	P	STG SW A
7	V	ACC
8	R	ILLUMINATION SHIELD
10	SHIELD	SOUND SIGNAL FRONT RH (+)
11	R	SOUND SIGNAL FRONT RH (-)
12	G	SOUND SIGNAL FRONT RH (+)

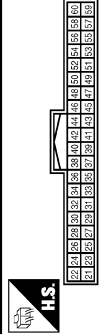
Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
61	B	RGB (R RED) SIGNAL
62	W	RGB (G GREEN) SIGNAL
63	R	RGB (B BLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (VS) SIGNAL
68	R	HP
69	W	VP
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

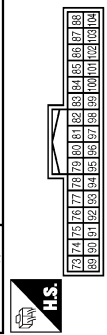
13	BR	SOUND SIGNAL REAR RH (+)
14	Y	SOUND SIGNAL REAR RH (-)
15	B	STG SW GND
16	L	STG SW B
19	Y	BATTERY
20	B	GND

Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH42FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	Y	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
35	G	IGNITION
36	V	PARKING BRAKE
37	O	REVERSE

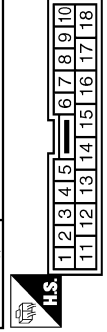
Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
79	R	iPod SOUND SIGNAL LH (+)
80	B	iPod SOUND SIGNAL RH (+)
85	SB	DISK EJECT SIGNAL
86	SHIELD	SHIELD
87	R	AUX SOUND SIGNAL LH (+)
88	W	AUX SOUND SIGNAL GND
95	W	AUX SOUND SIGNAL LH (-)
96	G	iPod SOUND SIGNAL RH (-)
102	BR	SW GND
103	B	AUX SOUND SIGNAL RH (+)

38	R	VEHICLE SPEED (8-PULSE)
41	B	CONTROL SIGNAL 1
42	B	CONTROL SIGNAL 2
43	GR	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
48	G	AV COMM (H)
49	R	AV COMM (H)
50	LG	AV COMM (L)
51	V	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	-- [With NAVI]
3	G	-- [With NAVI]
4	SHIELD	-- [With NAVI]

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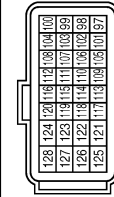
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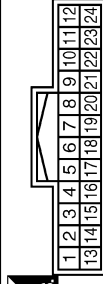
BOSE AUDIO WITH NAVIGATION

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-R28-R-LH-Z



Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-L1
114	L	VEHCAN-H1

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	AGC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod->iPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	R	iPod SOUND SIGNAL RH (+)
13	W	iPod SOUND SIGNAL LH (-)

Connector No.	M114
Connector Name	FRONT SQUAWKER RH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
18	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	W	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	R	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
99	V	- [With BOSE audio]
100	SB	- [With BOSE audio]

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP18FGY



Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
91	L	CAN-L
90	P	CAN-H

BOSE AUDIO WITH NAVIGATION

Connector No. M124	WIRE TO WIRE	TH40MW-CS15		Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	WIRE TO WIRE	TH40MW-CS15		7	Y	-
Connector Type	WIRE TO WIRE	TH40MW-CS15		8	LG	-
				Terminal No.	Color of Wire	Signal Name [Specification]
Connector No.	M371	AV CONTROL UNIT (WITH NAVI)		105	-	FM SUB
Connector Name	AV CONTROL UNIT (WITH NAVI)	AV CONTROL UNIT (WITH NAVI)		106	-	AM-FM MAIN
Connector Type	GT13SCF-2/1S-HU	AV CONTROL UNIT (WITH NAVI)		107	-	ANTENNA AMP. ON SIGNAL
				Terminal No.	Color of Wire	Signal Name [Specification]
Connector No.	M375	WIRE TO WIRE		1	-	-
Connector Name	WIRE TO WIRE	WIRE TO WIRE		2	-	-
Connector Type	GT13SC-2/1S-HU	WIRE TO WIRE		3	-	-
				Terminal No.	Color of Wire	Signal Name [Specification]
Connector No.	M374	WIRE TO WIRE		1	-	-
Connector Name	WIRE TO WIRE	WIRE TO WIRE		2	-	-
Connector Type	GT16C-1S-HU	WIRE TO WIRE				
				Terminal No.	Color of Wire	Signal Name [Specification]
Connector No.	M154	AUXILIARY INPUT JACKS		1	B	AUX SOUND SIGNAL RH (+)
Connector Name	AUXILIARY INPUT JACKS	AUXILIARY INPUT JACKS		2	W	AUX SOUND SIGNAL GND
Connector Type	A08FW	AUXILIARY INPUT JACKS		3	R	AUX SOUND SIGNAL LH (+)
				7	G	AUX IMAGE SIGNAL
				8	R	AUX IMAGE GND
Terminal No.	Color of Wire	Signal Name [Specification]				
1	B	AUX SOUND SIGNAL RH (+)				
2	W	AUX SOUND SIGNAL GND				
3	R	AUX SOUND SIGNAL LH (+)				
7	G	AUX IMAGE SIGNAL				
8	R	AUX IMAGE GND				
Connector No.	M373	AV CONTROL UNIT (WITH NAVI)		110	-	GPS ANTENNA
Connector Name	AV CONTROL UNIT (WITH NAVI)	AV CONTROL UNIT (WITH NAVI)		111	SHIELD	SHIELD
Connector Type	GT5-1S-HU	AV CONTROL UNIT (WITH NAVI)				
				Terminal No.	Color of Wire	Signal Name [Specification]
Connector No.	M372	AV CONTROL UNIT (WITH NAVI)		108	-	SAEILLITE ANTENNA
Connector Name	AV CONTROL UNIT (WITH NAVI)	AV CONTROL UNIT (WITH NAVI)				
Connector Type	FAKRA JACK	AV CONTROL UNIT (WITH NAVI)				
				Terminal No.	Color of Wire	Signal Name [Specification]
Connector No.	M303	COMBINATION SWITCH (SPIRAL CABLE)		13	W	-
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)	COMBINATION SWITCH (SPIRAL CABLE)		14	W	-
Connector Type	TK0BFGY	COMBINATION SWITCH (SPIRAL CABLE)		15	L	-
				17	BR	-
Terminal No.	Color of Wire	Signal Name [Specification]				
14	W	-				
15	L	-				
17	BR	-				

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION

Connector No.	M376	Connector No.	M378	Connector No.	M377	Connector No.	M380
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/IPP-HU	Connector Type	GT13SC-2/IS-HU	Connector Type	GT16C-1PP-HU	Connector Type	GT16-1S-HU

Terminal No.	1	2	3	Terminal No.	1	2	Terminal No.	1	2
Color of Wire	-	-	-	Color of Wire	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-	-

Terminal No.	1	2	3	Terminal No.	1	2
Color of Wire	-	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	-	Signal Name [Specification]	-	-

Connector No.	M382	Connector No.	M385	Connector No.	M383	Connector No.	M396
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	ANTENNA BASE	Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU	Connector Type	GT13SCN-2/IPP-HU	Connector Type	GT16C-1PP-HU	Connector Type	GT13SN-1/IPP-HU

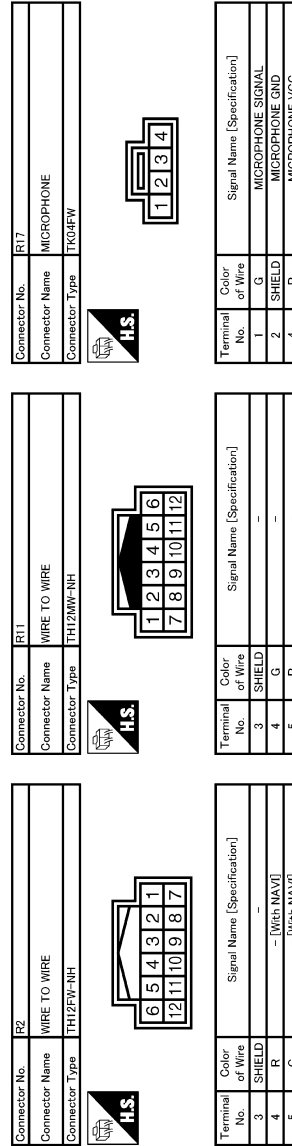
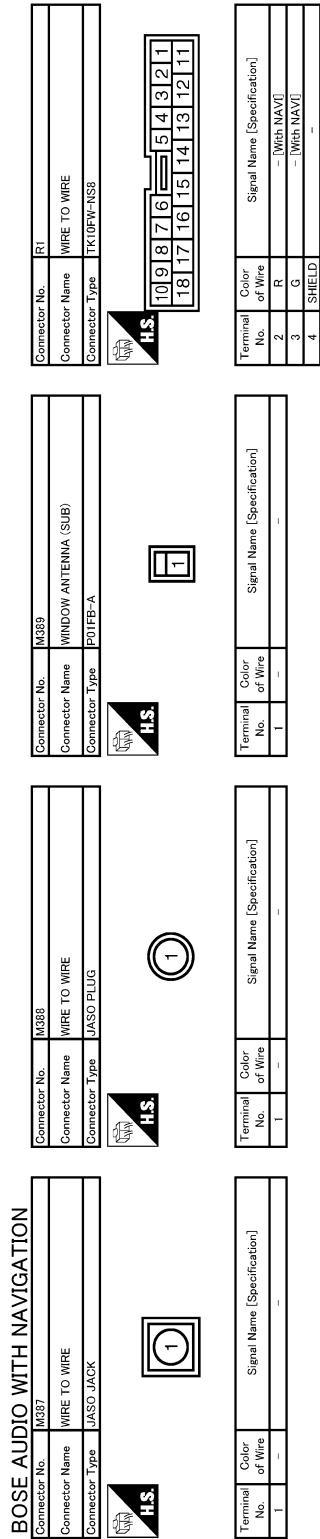
Terminal No.	1	2	Terminal No.	1	2
Color of Wire	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	Signal Name [Specification]	-	-

Terminal No.	1	2	3	Terminal No.	1	2
Color of Wire	-	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	-	Signal Name [Specification]	-	-

Terminal No.	1	3	Terminal No.	1	2
Color of Wire	-	-	Color of Wire	-	-
Signal Name [Specification]	-	SAETLLITE ANTENNA	Signal Name [Specification]	-	-

Terminal No.	1	2	Terminal No.	1	2
Color of Wire	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	Signal Name [Specification]	-	-

JCNWM0775G1



JCNWM0776GI

WITH REAR VIEW MONITOR

WITH REAR VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR -

Click here to view the eWD.

NOTE:

INFOID:000000003737132

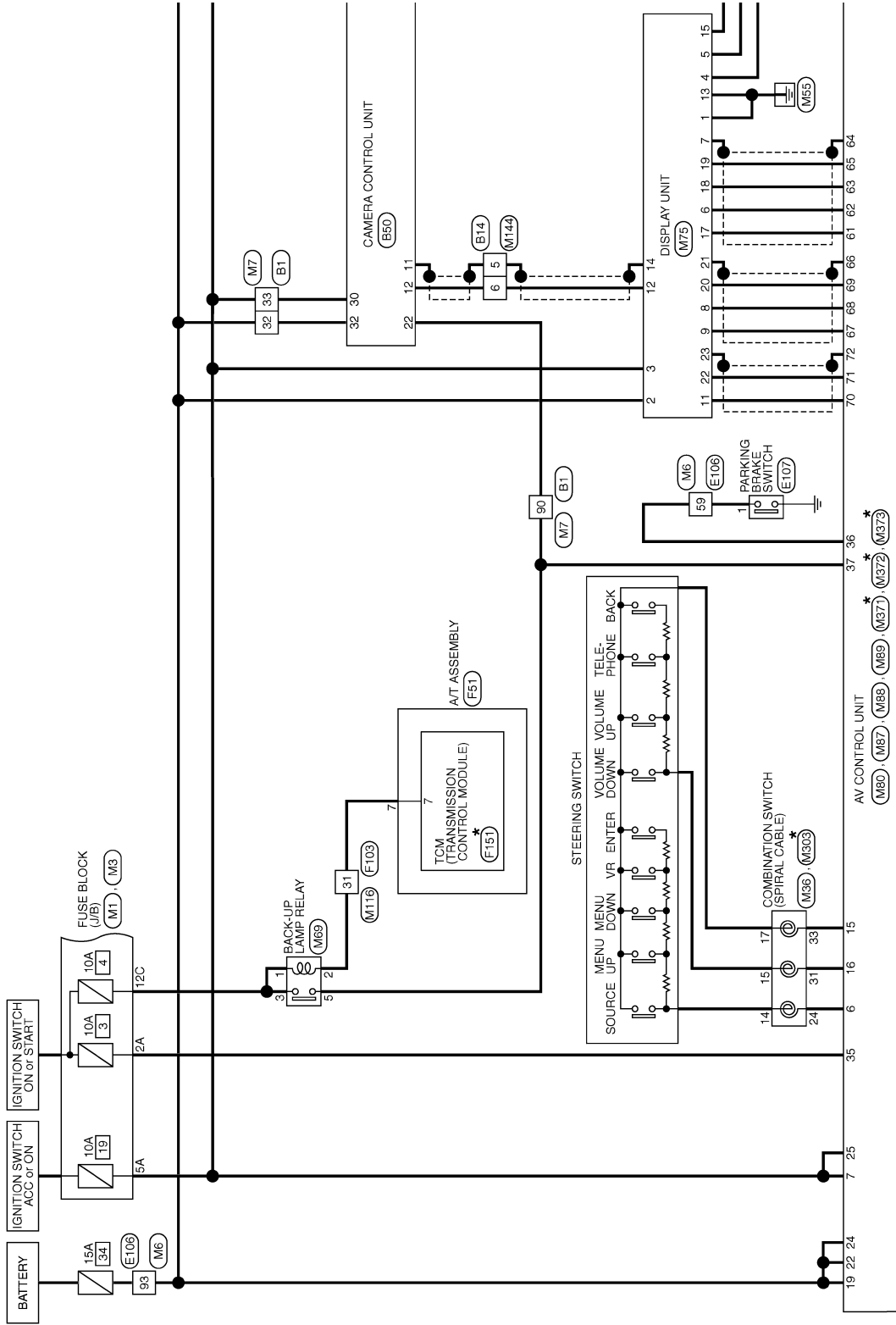
BOSE AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR



*: This connector is not shown in "Harness Layout".

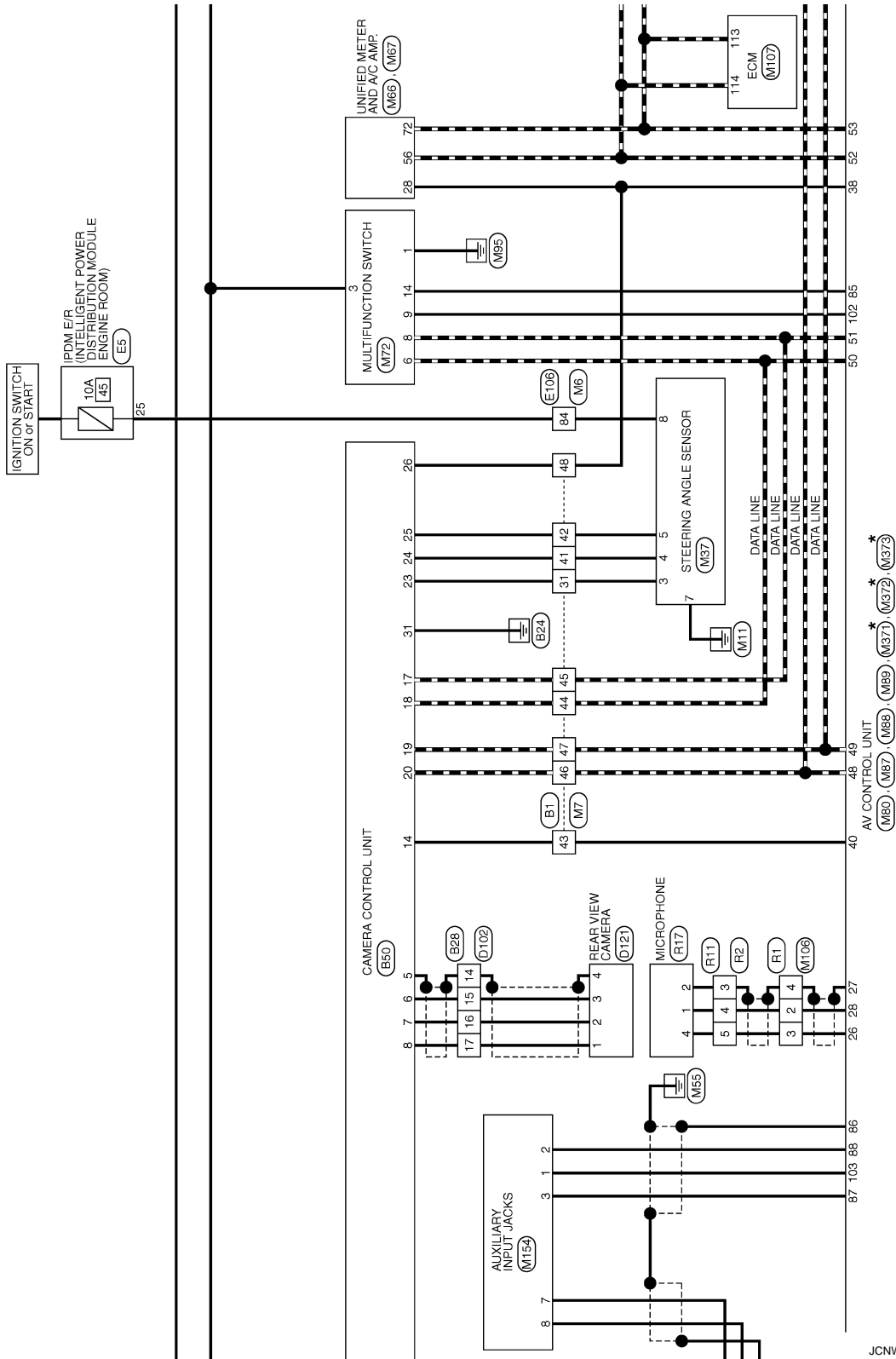
2007/10/26

JCNWM0777GI

BOSE AMP.

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >



*: This connector is not shown in "Harness Layout".

JCNWM0778GI

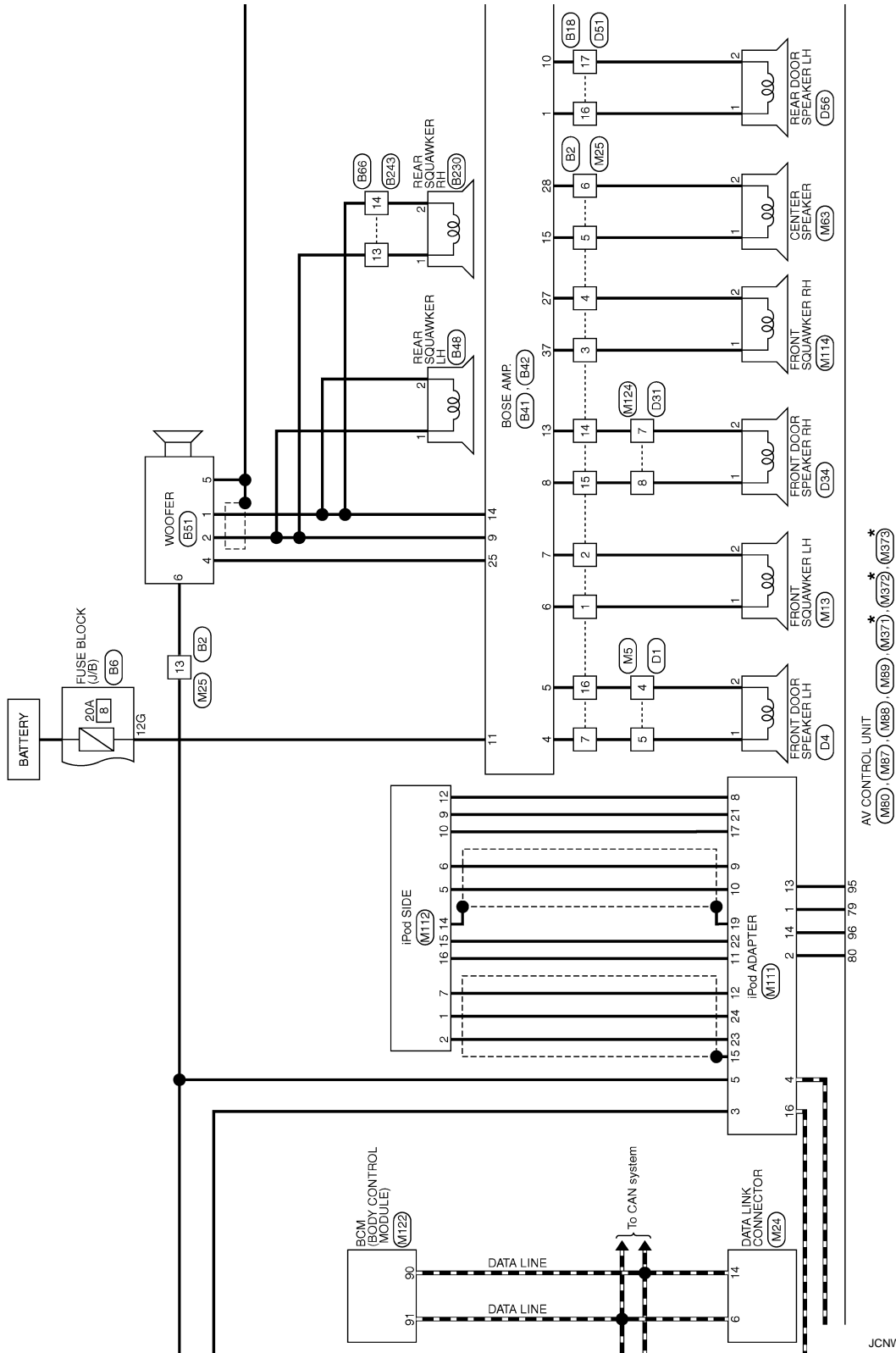
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BOSE AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]



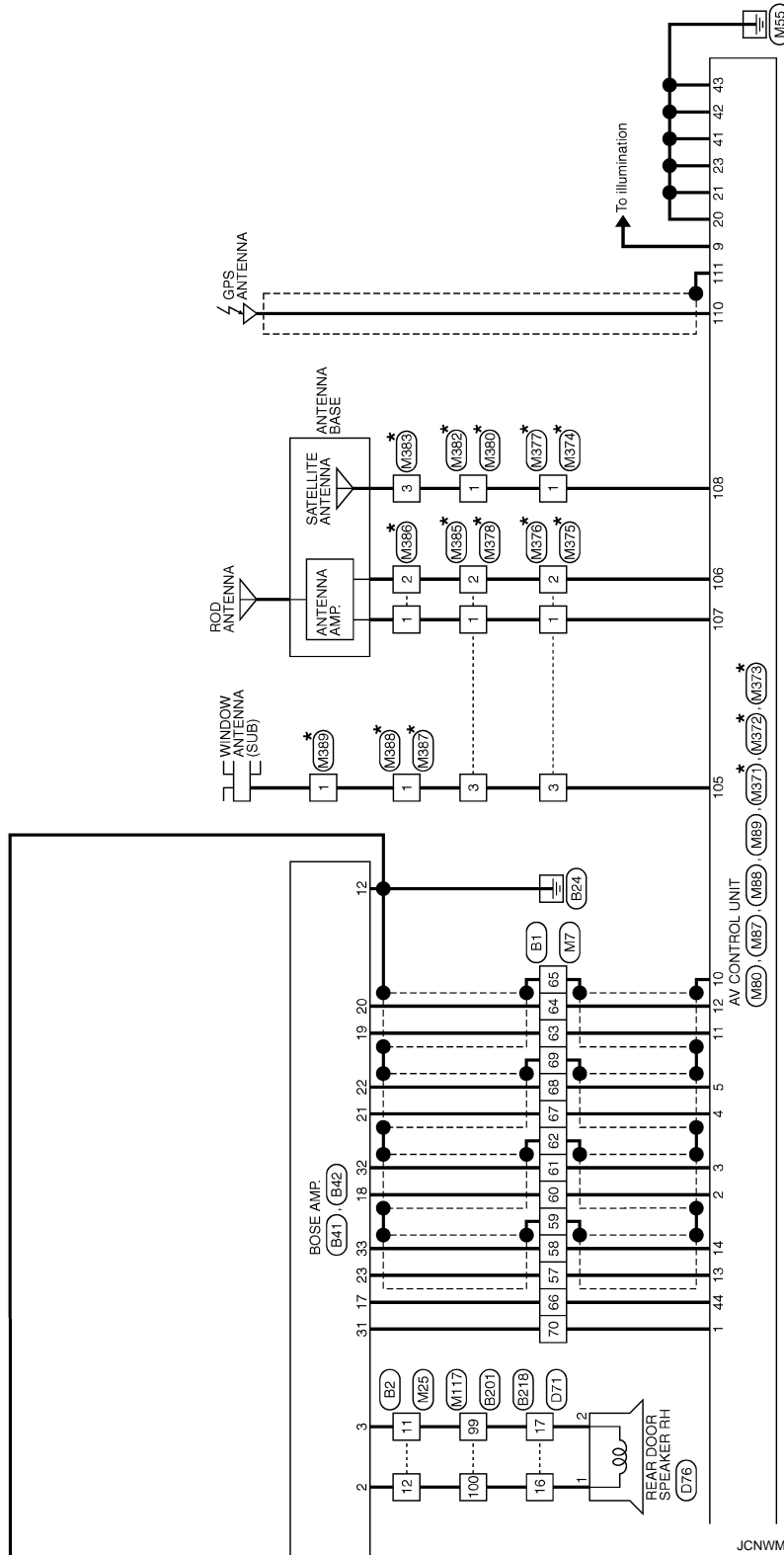
JCNWM07796I

*: This connector is not shown in "Harness Layout".

BOSE AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]



JCNWM0780GI

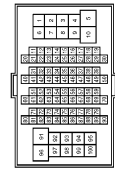
* This connector is not shown in "Harness Layout".

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BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	L	-
33	LG	-
41	BR	-
42	R	-
43	W	-
44	LG	- [Without around view monitor]
45	V	- [Without around view monitor]
46	G	- [With base audio or with NAVI]
47	R	- [With base audio or with NAVI]
48	V	-

Connector No.	B8
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS

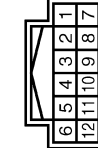


Terminal No.	Color of Wire	Signal Name [Specification]
12G	GR	-

57	BR	-
58	Y	-
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
90	O	-

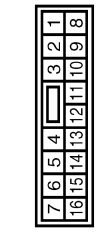
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
6	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH

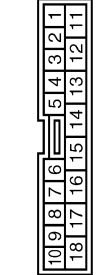


Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	-
6	W	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



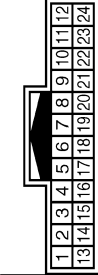
Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

15	LG	-
16	P	-

Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MY-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	W	- [Without around view monitor]
16	B	- [Without around view monitor]
17	R	- [Without around view monitor]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA1PFR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (+)
17	O	MODE CHANGE SIGNAL
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	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (-)

Connector No.	B48
Connector Name	REAR SQUAWKER LH
Connector Type	TK02FBR



31	W	AMP ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	BR	SOUND SIGNAL FRONT SQUAWKER RH (+)



Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SCA1PFR-SJA2



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (-)
3	V	SOUND SIGNAL REAR DOOR RH (+)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
8	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL WOOFER (+)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

22	O	REVERSE
23	L	SENSOR SIGNAL 1
24	BR	SENSOR SIGNAL 2
25	R	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	L	BATTERY



Connector No.	B51
Connector Name	WOOFER
Connector Type	RS08FGY-PR

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-


Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	W	CAMERA IMAGE SIGNAL
7	B	CAMERA GND
8	R	CAMERA POWER SUPPLY
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
14	W	CONNECTION RECOGNITION
17	V	AV GNDM (L) [With base audio or with NAVI]
18	LG	AV GNDM (H) [With base audio or with NAVI]
19	R	AV GNDM (L) [With base audio or with NAVI]
20	G	AV GNDM (H) [With base audio or with NAVI]

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP ON SIGNAL
5	B	GND
6	W	BATTERY

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BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	B230
Connector Name	REAR SQUAWKER RH
Connector Type	TK02FBR




Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-1S8




Terminal No.	Color of Wire	Signal Name [Specification]
16	L	
17	O	- [With BOSE audio]

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS16-TM4



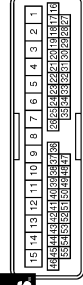
Terminal No.	Color of Wire	Signal Name [Specification]
99	O	
100	L	- [With BOSE audio]

Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH




Terminal No.	Color of Wire	Signal Name [Specification]
13	L	
14	W	

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



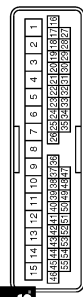
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	
8	BR	

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)
Connector Type	NS02FBR-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	
5	L	

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH





Terminal No.	Color of Wire	Signal Name [Specification]
13	L	
14	W	

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BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MP-NSS



Terminal No.	Color of Wire	Signal Name [Specification]
16	L	-
17	Y	-

Connector No.	D56
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS2ZFBF-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TK10MP-NSS



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

Connector No.	D34
Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)
Connector Type	NS2ZFBF-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	R	-

Connector No.	E5
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH2DFW-CS12-M4-1V


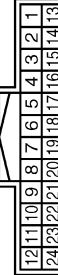
Terminal No.	Color of Wire	Signal Name [Specification]
25	G	-

Connector No.	D121
Connector Name	REAR VIEW CAMERA
Connector Type	TH4MMW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	CAMERA POWER SUPPLY
2	L	CAMERA GND
3	Y	CAMERA IMAGE SIGNAL
4	SHIELD	SHIELD

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	Y	-
16	L	- [Without around view monitor]
17	G	- [Without around view monitor]

Connector No.	D76
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS2ZFBF-CS

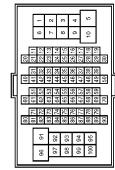
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-

JCNWM0784GI

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BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



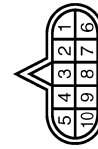
Terminal No.	Color of Wire	Signal Name [Specification]
59	O	
84	G	
93	Y	

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TE80FW



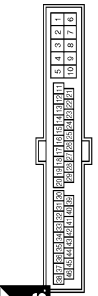
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	

Connector No.	F51
Connector Name	A-T ASSEMBLY
Connector Type	BK10FG-DGY



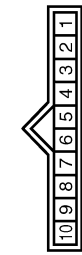
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10



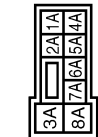
Terminal No.	Color of Wire	Signal Name [Specification]
31	R	

Connector No.	F151
Connector Name	TOM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FBGY



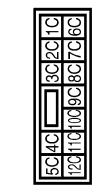
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



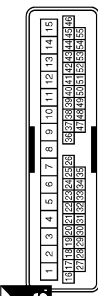
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	
5A	V	

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	

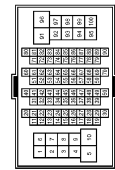
Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
4	P	
5	L	

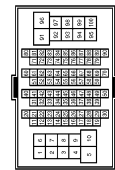
BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M16
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS1F-TM4



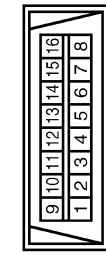
Terminal No.	Color of Wire	Signal Name [Specification]
59	V	
84	G	
93	Y	

Connector No.	M17
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS1F-TM4



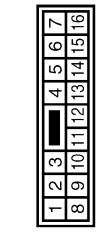
Terminal No.	Color of Wire	Signal Name [Specification]
31	L	
32	Y	
33	V	
41	BR	
42	R	
43	W	
44	LG	
45	V	
46	G	-- [With base audio or with NAV]
47	R	-- [With base audio or with NAV]
48	V	

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	
14	P	

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	
3	V	
4	LG	
5	Y	
6	G	
7	L	
11	V	
12	SB	
13	Y	
14	Y	

57	BR	
58	Y	
59	SHIELD	
60	P	
61	L	
62	SHIELD	
63	R	
64	G	
65	SHIELD	
66	SB	
67	V	
68	SB	
69	SHIELD	
70	V	
90	O	



Connector No.	M13
Connector Name	FRONT SQUAWKER LH
Connector Type	TK02FBR

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

15	LG	
16	P	

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FEGY-1V

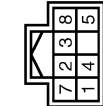


Terminal No.	Color of Wire	Signal Name [Specification]
24	P	
31	L	
33	B	

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BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH



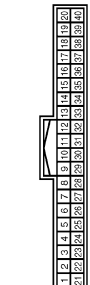
Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



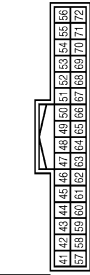
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



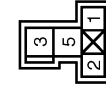
Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

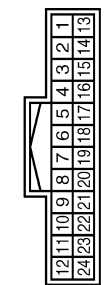
Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2



Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
13	B	GND
14	SHIELD	SHIELD
15	G	AUX IMAGE SIGNAL
17	B	RGB (R-RED) SIGNAL
18	R	RGB (B-BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

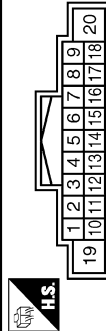
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	ACC
3	V	AV COMM (H)
6	LG	AV COMM (L)
8	V	SW GND
9	BR	DISK EJECT SIGNAL
14	SB	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	V	ACC
4	SHIELD	SHIELD
5	R	AUX IMAGE GND
6	W	RGB (G-GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (VS) SIGNAL
11	BR	COMM (CONT->DISP)
12	W	CAMERA IMAGE SIGNAL

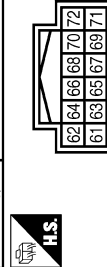
BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-CSZ



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	AMP ON SIGNAL
2	P	SOUND SIGNAL FRONT LH (+)
3	L	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	SB	SOUND SIGNAL REAR LH (-)
6	P	STG SW A
7	V	ACC
8	R	ILLUMINATION
9	R	SHIELD
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (+)
12	G	SOUND SIGNAL FRONT RH (-)

Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



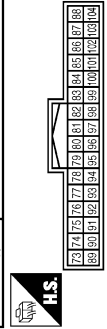
Terminal No.	Color of Wire	Signal Name [Specification]
61	B	RGB (R RED) SIGNAL
62	W	RGB (G GREEN) SIGNAL
63	R	RGB (B BLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (VS) SIGNAL
68	R	HP
69	W	VP
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

13	BR	SOUND SIGNAL REAR RH (+)
14	Y	SOUND SIGNAL REAR RH (-)
15	B	STG SW GND
16	L	STG SW B
19	Y	BATTERY
20	B	GND



Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	Y	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
35	G	IGNITION
36	V	PARKING BRAKE
37	O	REVERSE

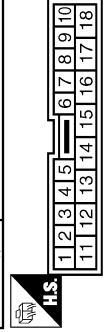
Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
79	R	iPod SOUND SIGNAL LH (+)
80	B	iPod SOUND SIGNAL RH (+)
85	SB	DISK EJECT SIGNAL
86	SHIELD	SHIELD
87	R	AUX SOUND SIGNAL LH (+)
88	W	AUX SOUND SIGNAL GND
95	W	AUX SOUND SIGNAL LH (-)
96	G	iPod SOUND SIGNAL RH (-)
102	BR	SW GND
103	B	AUX SOUND SIGNAL RH (+)

38	R	VEHICLE SPEED (8-PULSE)
40	W	CONNECTION RECOGNITION
41	B	CONTROL SIGNAL 1
42	B	CONTROL SIGNAL 2
43	GR	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
48	G	AV COMM (H)
49	R	AV COMM (L)
50	LG	AV COMM (H)
51	V	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSS



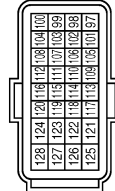
Terminal No.	Color of Wire	Signal Name [Specification]
2	R	-- [With NAVI]
3	G	-- [With NAVI]
4	SHIELD	-- [With NAVI]

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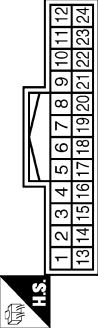
BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-R28-R-LH-Z



Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-L1
114	L	VEHCAN-H1

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	AGC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod->iPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	R	iPod SOUND SIGNAL RH (+)
13	W	iPod SOUND SIGNAL LH (-)

Connector No.	M114
Connector Name	FRONT SQUAWKER RH
Connector Type	TK02FBR

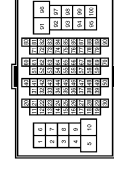


Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
18	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

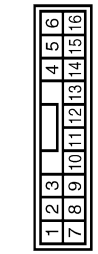
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	W	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	R	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

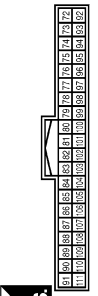


Terminal No.	Color of Wire	Signal Name [Specification]
99	V	- [With BOSE audio]
100	SB	- [With BOSE audio]

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP18FGY



Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
91	L	CAN-L
90	P	CAN-H

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40WP-CS15

Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	LG	-

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH12MP-BH

Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	-
6	W	-

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	A08PW

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	AUX SOUND SIGNAL RH (+)
2	W	AUX SOUND SIGNAL GND
3	R	AUX SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M374
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY

Terminal No.	Color of Wire	Signal Name [Specification]
14	W	-
15	L	-
17	BR	-

Connector No.	M372
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKRA JACK

Terminal No.	Color of Wire	Signal Name [Specification]
108	-	SAATELLITE ANTENNA

Connector No.	M371
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SH-2/1S-HU

Terminal No.	Color of Wire	Signal Name [Specification]
105	-	FM SUB
106	-	AM-FM MAIN
107	-	ANTENNA AMP. ON SIGNAL

Connector No.	M373
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT5-1S-HU

Terminal No.	Color of Wire	Signal Name [Specification]
110	-	GPS ANTENNA SHIELD

Connector No.	M374
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU

Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-


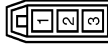
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BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU


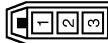
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M377
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU


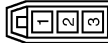
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SON-2/1PP-HU


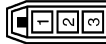
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M395
Connector Name	WIRE TO WIRE
Connector Type	GT13SON-2/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M383
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
3	-	SAETLLITE ANTENNA

Connector No.	M382
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU

Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M380
Connector Name	WIRE TO WIRE
Connector Type	GT16-1S-HU

Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

















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BOSE AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No. M386	ANTENNA BASE	Connector No. M387	WIRE TO WIRE	Connector No. M388	WIRE TO WIRE	Connector No. M389	WINDOW ANTENNA (SUB)
Connector Name GT13SSN-1/PP-HU		Connector Name JASO JACK		Connector Name JASO PLUG		Connector Name P01FB-A	
Connector Type		Connector Type		Connector Type		Connector Type	
							
Terminal No.	Color of Wire	Terminal No.	Color of Wire	Terminal No.	Color of Wire	Terminal No.	Color of Wire
1		1		1		1	
2							
	Signal Name [Specification]		Signal Name [Specification]		Signal Name [Specification]		Signal Name [Specification]
	ANTENNA AMP. ON SIGNAL						
	AM-FM MAIN						
Connector No. R1	WIRE TO WIRE	Connector No. R2	WIRE TO WIRE	Connector No. R11	WIRE TO WIRE	Connector No. R17	MICROPHONE
Connector Name TK10FW-NS8		Connector Name TH12FW-NH		Connector Name TH12MW-NH		Connector Name TK04FW	
Connector Type		Connector Type		Connector Type		Connector Type	
							
Terminal No.	Color of Wire	Terminal No.	Color of Wire	Terminal No.	Color of Wire	Terminal No.	Color of Wire
2	R	3	SHIELD	3	SHIELD	1	G
3	G	4	R	4	G	2	SHIELD
4	SHIELD	5	G	5	R	4	R
	Signal Name [Specification]		Signal Name [Specification]		Signal Name [Specification]		Signal Name [Specification]
	- [With NAVI]						MICROPHONE SIGNAL
	- [With NAVI]						MICROPHONE GND
							MICROPHONE YCC

WITH AROUND VIEW MONITOR

WITH AROUND VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR -

Click here to view the eWD.

NOTE:

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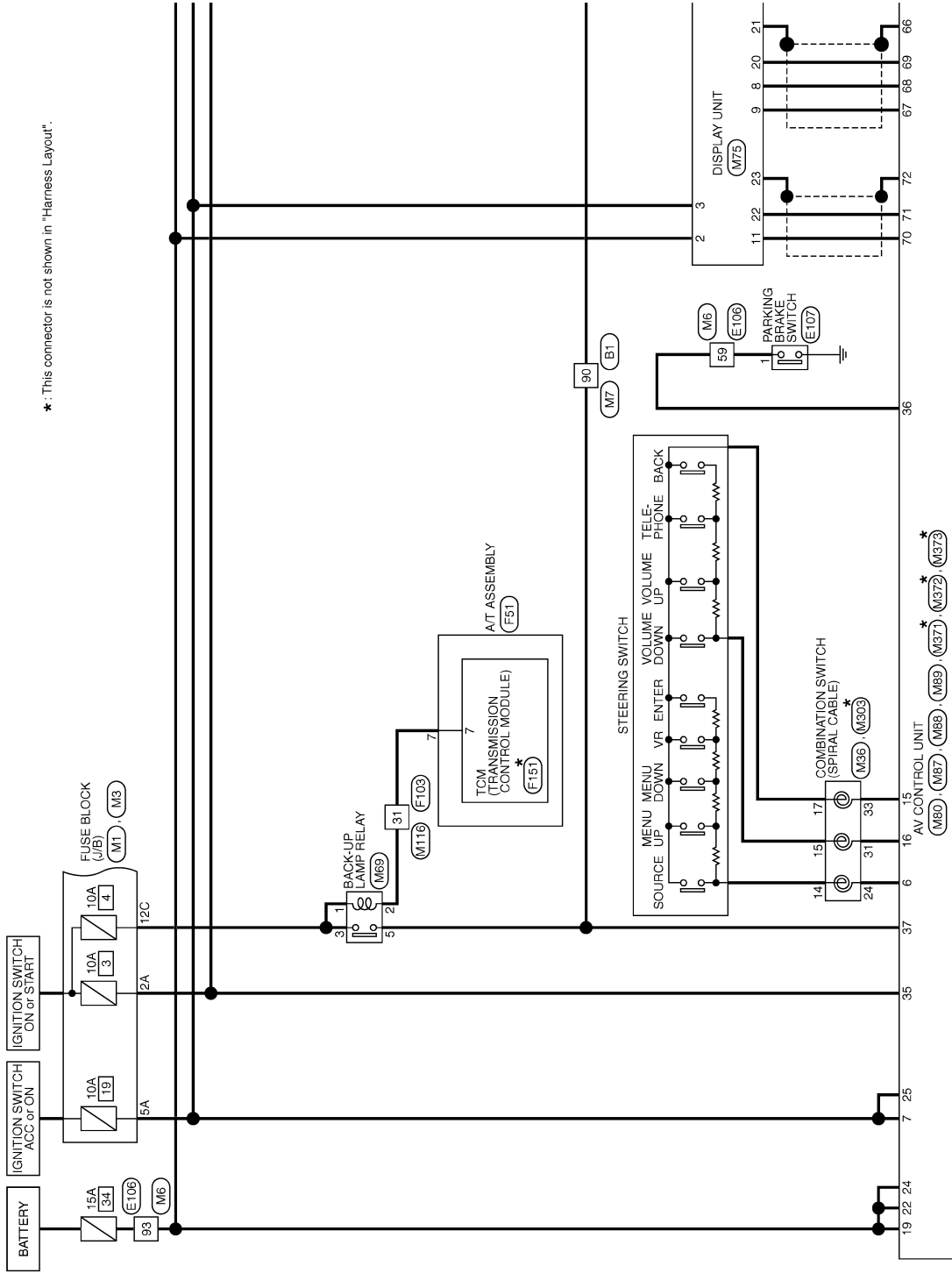
BOSE AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR



*: This connector is not shown in "Harness Layout".

2007/10/26

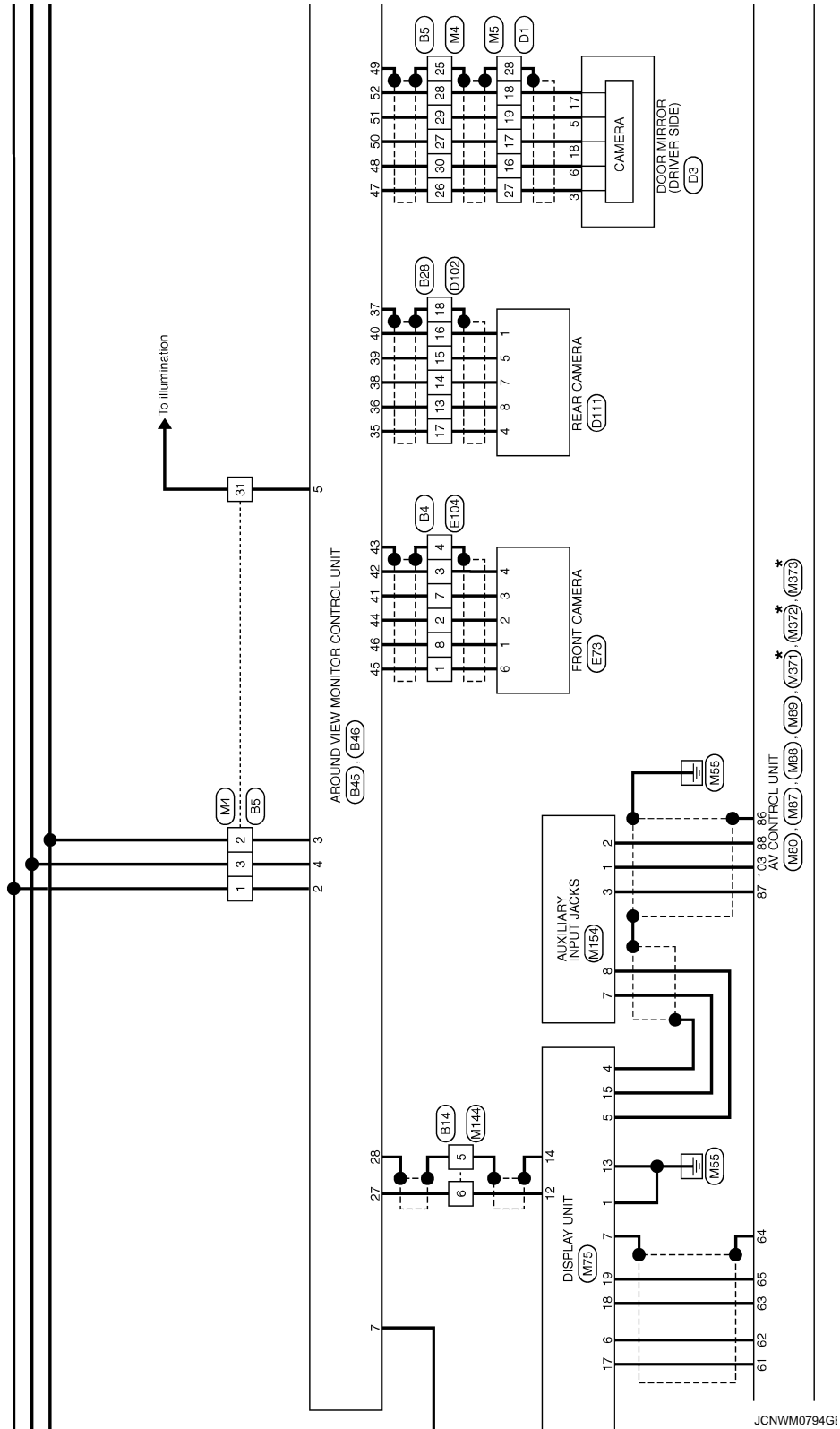
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BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]

*: This connector is not shown in "Harness Layout".



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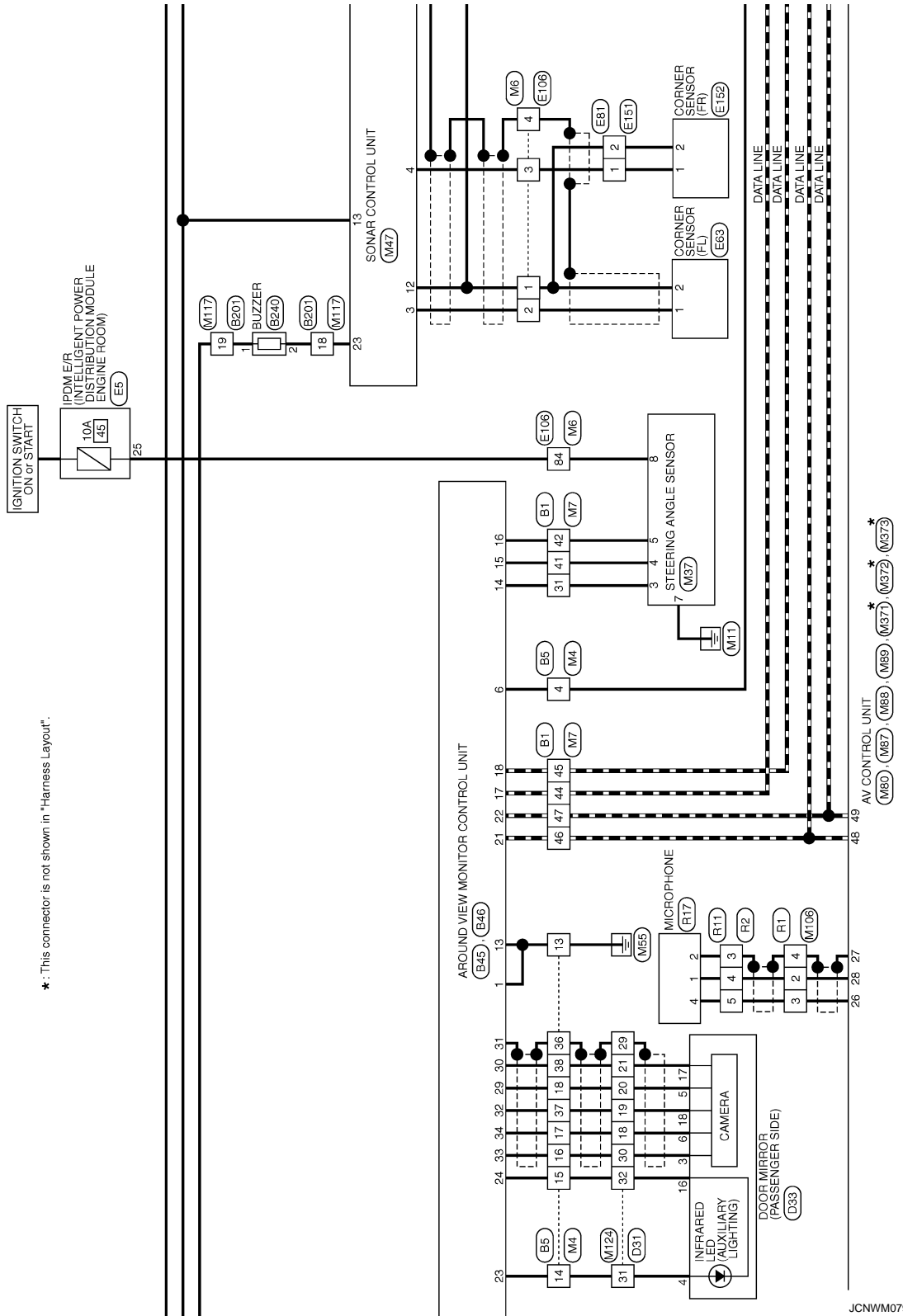
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BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]



*: This connector is not shown in "Harness Layout".

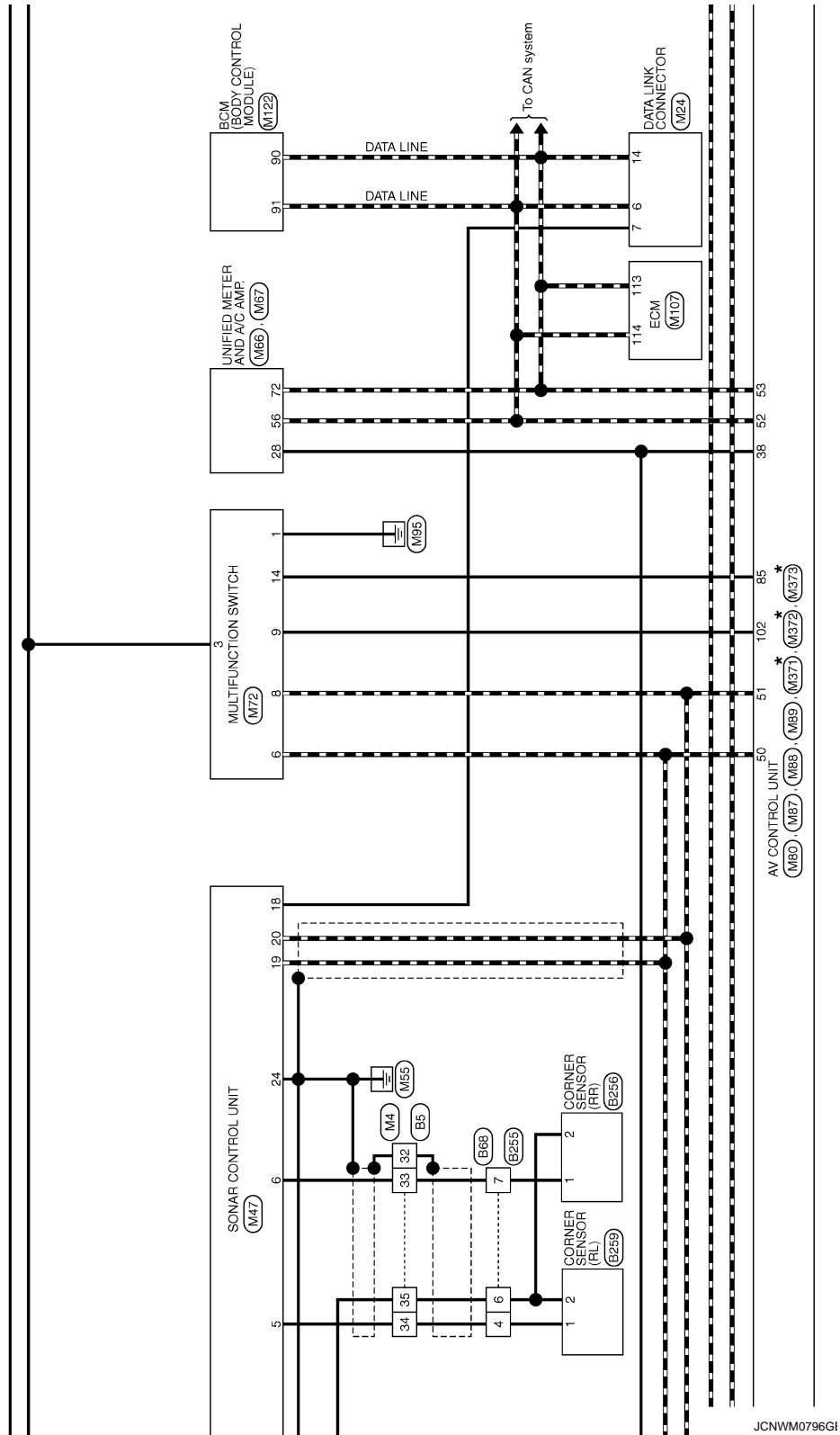
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BOSE AMP.

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

*: This connector is not shown in "Harness Layout".



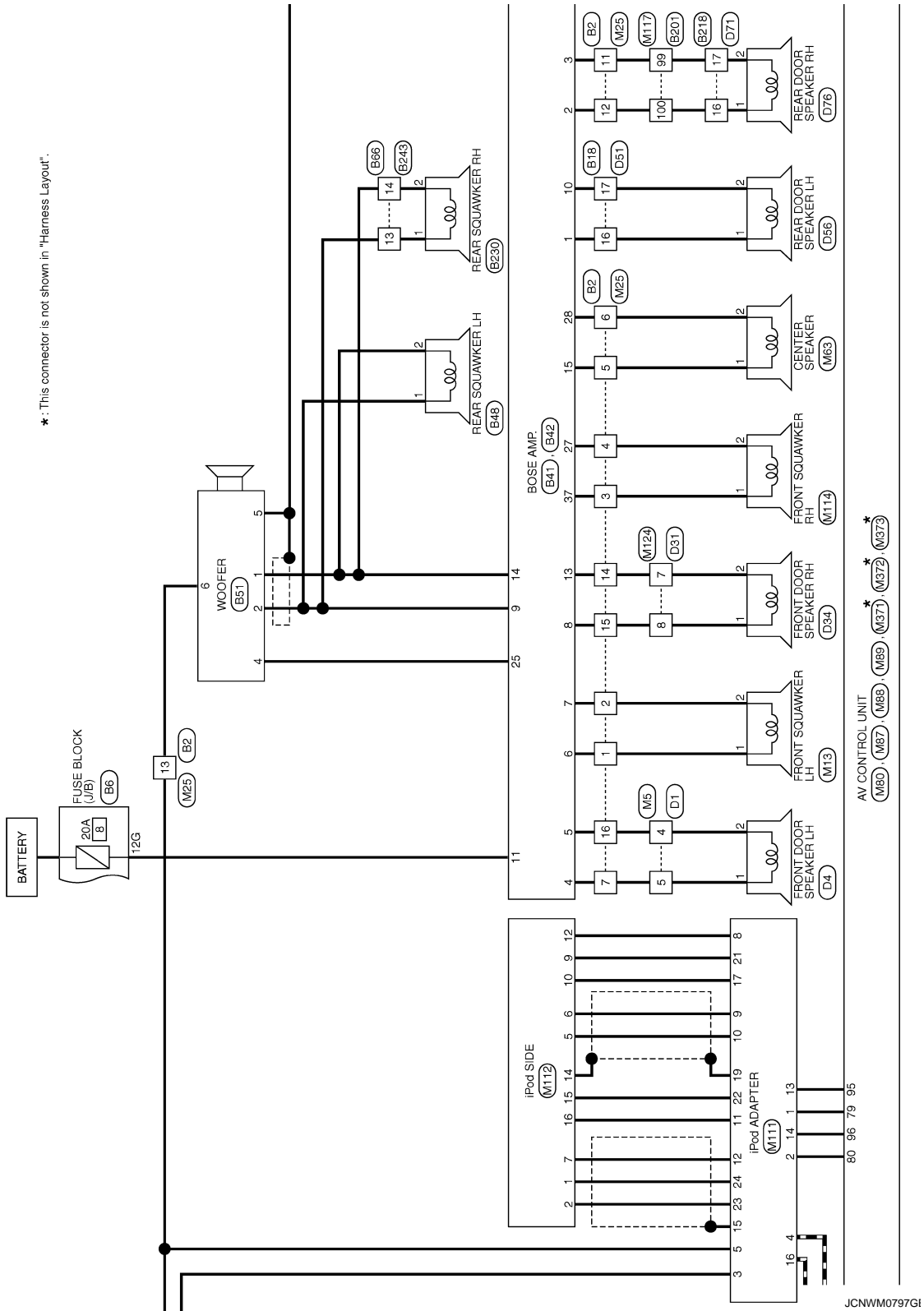
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BOSE AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]



*: This connector is not shown in "Harness Layout".

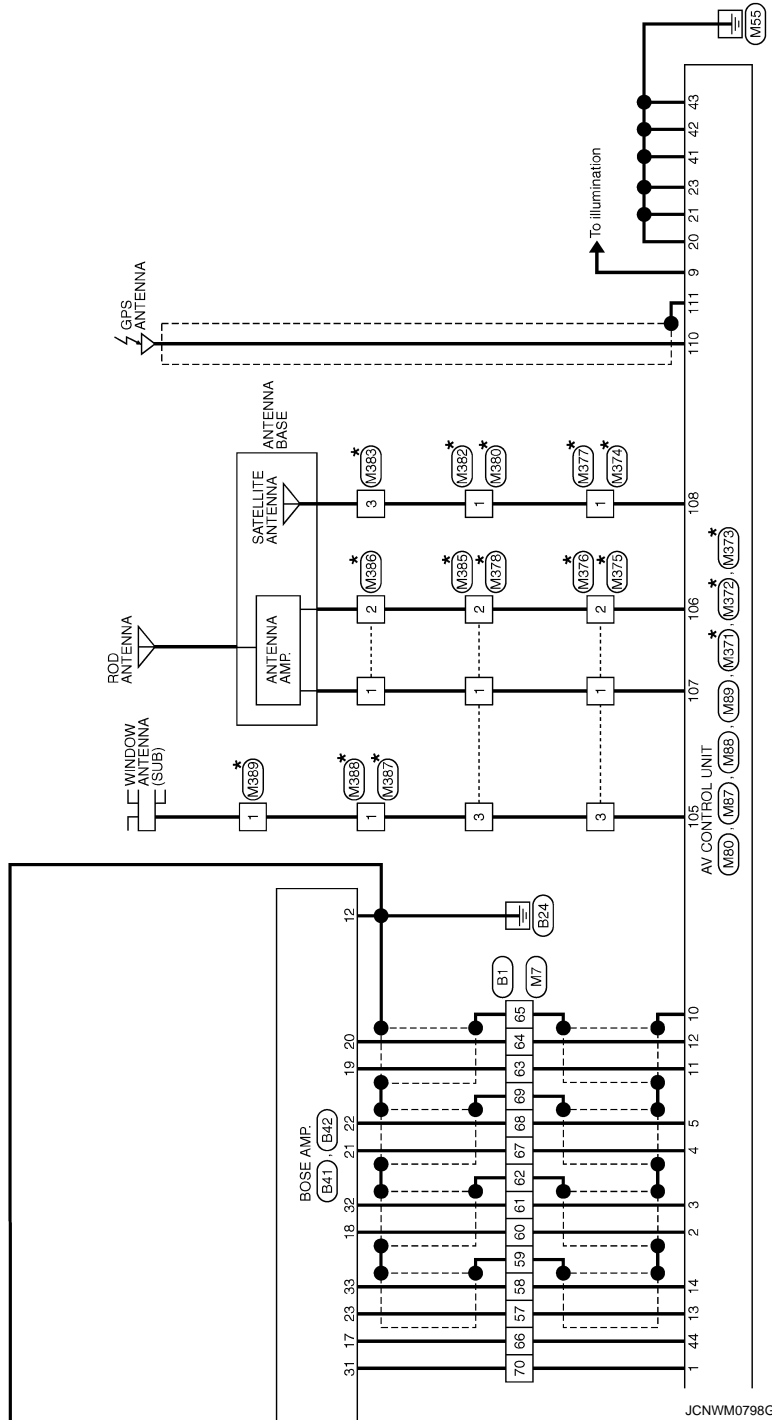
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BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]

*: This connector is not shown in "Harness Layout".



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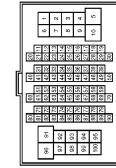
BOSE AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

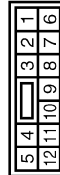
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
41	BR	-
42	R	-
44	G	- [With around view monitor]
45	Y	- [With around view monitor]
46	W	- [With around view monitor]
47	B	- [With around view monitor]
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-



Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	B	-
3	G	-
4	SHIELD	-
7	Y	-
8	R	-

61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
90	O	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
6	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	P	-
3	GR	-
4	SB	-
13	B	-
14	LG	-
15	G	-
16	W	-
17	R	-
18	Y	-
25	SHIELD	-

15	LG	-
16	P	-

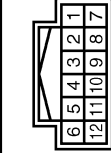
Connector No.	B6
Connector Name	FUSE BLOK (J/B)
Connector Type	NS12FBR-CS



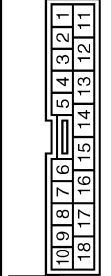
Terminal No.	12G	Color of Wire	GR	Signal Name [Specification]	-
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BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

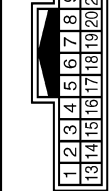
Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12PW-RH



Terminal No.	6	5	4	3	2	1
Color of Wire	SHIELD	W				
Signal Name [Specification]						



Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-RH



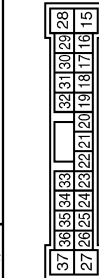
Terminal No.	13	14	15	16	17	18
Color of Wire	BR	R	Y	W	L	SHIELD
Signal Name [Specification]		- [With around view monitor]	- [With around view monitor]	- [With around view monitor]	- [With around view monitor]	

Terminal No.	5	6
Color of Wire	SHIELD	W
Signal Name [Specification]		

Terminal No.	16	17
Color of Wire	Y	G
Signal Name [Specification]	- [With BOSE audio]	- [With BOSE audio]

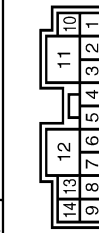
Terminal No.	13	14	15	16	17	18
Color of Wire	BR	R	Y	W	L	SHIELD
Signal Name [Specification]		- [With around view monitor]	- [With around view monitor]	- [With around view monitor]	- [With around view monitor]	

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FBR-SGA4



Terminal No.	31	32	33	37
Color of Wire	W	L	Y	BR
Signal Name [Specification]	AMP_ON SIGNAL	SOUND SIGNAL FRONT LH (-)	SOUND SIGNAL REAR RH (-)	SOUND SIGNAL FRONT SQUAWKER RH (+)

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA12FBR-SJA2



Terminal No.	12	13	14
Color of Wire	B	Y	R
Signal Name [Specification]	GND	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)	SOUND SIGNAL WOODFER (-)

Terminal No.	15	16	17	18	19	20	21	22	23	24	25	27	28
Color of Wire	B	O	P	R	G	V	SB	BR	GR	R	G		
Signal Name [Specification]	SOUND SIGNAL CENTER (+)	MODE CHANGE SIGNAL	SOUND SIGNAL FRONT LH (+)	SOUND SIGNAL FRONT RH (+)	SOUND SIGNAL FRONT RH (-)	SOUND SIGNAL REAR LH (+)	SOUND SIGNAL REAR LH (-)	SOUND SIGNAL REAR RH (+)	WOOFER AMP_ON SIGNAL	SOUND SIGNAL FRONT SQUAWKER RH (-)	SOUND SIGNAL CENTER (-)		

Terminal No.	1	2	3	4	5	6	7	8	9	10	11
Color of Wire	Y	SB	V	B	P	L	W	LG	G	G	GR
Signal Name [Specification]	SOUND SIGNAL REAR DOOR LH (+)	SOUND SIGNAL REAR DOOR RH (+)	SOUND SIGNAL REAR DOOR RH (-)	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)	SOUND SIGNAL FRONT SQUAWKER LH (+)	SOUND SIGNAL FRONT SQUAWKER LH (-)	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)	SOUND SIGNAL WOODFER (+)	SOUND SIGNAL REAR DOOR LH (-)	BATTERY

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	B45
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH24TV-NH

Terminal No.	Color of Wire	Signal Name [Specification]
41	Y	FRONT CAMERA IMAGE SIGNAL
42	G	FRONT CAMERA IMAGE GND
43	SHIELD	SHIELD
44	B	FRONT CAMERA GND
45	W	FRONT CAMERA COMM
46	R	FRONT CAMERA POWER SUPPLY
47	L	SIDE CAMERA LH COMM
48	BR	SIDE CAMERA LH POWER SUPPLY
49	SHIELD	SHIELD
50	R	SIDE CAMERA LH GND
51	Y	SIDE CAMERA LH IMAGE SIGNAL



42	44	46	48	50	52	54	56	58	60	62	64
41	43	45	47	49	51	53	55	57	59	61	63

52	W	SIDE CAMERA LH IMAGE GND
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Connector No.	B46
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH24TV-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	P	IGNITION
4	GR	ACC
5	O	ILLUMINATION
6	SB	VEHICLE SPEED (+PULSE)
7	G	REVERSE
13	B	CONTROL SIGNAL
14	L	SENSOR SIGNAL 1
15	BR	SENSOR SIGNAL 2
16	R	SENSOR SIGNAL 3



1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

17	G	AV COMM (H)
18	Y	AV COMM (L)
21	W	AV COMM (H)
22	W	AV COMM (L)
23	LG	LED (+)
24	G	LED (-)
27	W	CAMERA IMAGE SIGNAL
28	SHIELD	CAMERA IMAGE GND
29	Y	SIDE CAMERA RH IMAGE SIGNAL
30	G	SIDE CAMERA RH IMAGE GND
31	SHIELD	SHIELD
32	B	SIDE CAMERA RH GND
33	W	SIDE CAMERA RH COMM
34	R	SIDE CAMERA RH POWER SUPPLY
35	L	REAR CAMERA COMM
36	BR	REAR CAMERA POWER SUPPLY
37	SHIELD	SHIELD
38	R	REAR CAMERA GND
39	Y	REAR CAMERA IMAGE SIGNAL
40	W	REAR CAMERA IMAGE GND

Connector No.	B48
Connector Name	REAR SPEAKER LH
Connector Type	TK02FB



2	1
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Connector No.	B51
Connector Name	WOOFER
Connector Type	RS06FGY-PR



2	4	6
1	3	5

Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

Connector No.	B68
Connector Name	WIRE TO WIRE
Connector Type	RH08ME



1	2	3	4
5	6	7	8

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	W	BATTERY



Terminal No.	Color of Wire	Signal Name [Specification]
13	L	-
14	W	-

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	- [With around view monitor]
6	B	- [With around view monitor]
7	W	- [With around view monitor]

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BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	B240
Connector Name	BUZZER
Connector Type	RK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	GR	-

Connector No.	B230
Connector Name	REAR SQUAWKER RH
Connector Type	TK02FBR


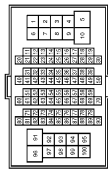
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK10PW-HSS



Terminal No.	Color of Wire	Signal Name [Specification]
16	L	-
17	O	- [With BOSE audio]

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
18	GR	-
98	P	-
100	L	- [With BOSE audio]

Connector No.	B239
Connector Name	CORNER SENSOR (RL)
Connector Type	YDX02FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	B	-

Connector No.	B236
Connector Name	CORNER SENSOR (RR)
Connector Type	YDX02FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	B	-

Connector No.	B255
Connector Name	WIRE TO WIRE
Connector Type	RH06FB

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
6	B	-
7	R	-

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
13	L	-
14	W	-

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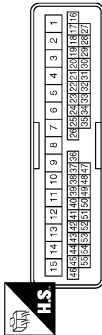
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[BOSE AUDIO WITH NAVIGATION]

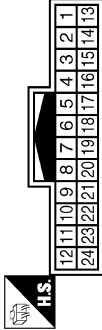
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
5	L	-
16	R	-
17	W	-
18	G	-
19	Y	-
27	B	-
28	SHIELD	-

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH



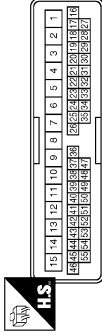
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	-
5	Y	-
6	R	-
17	G	-
18	W	-

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)
Connector Type	NS02FBR-CS



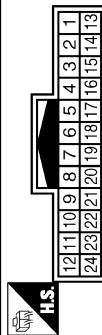
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	BR	-
18	R	-
19	Y	-
20	B	- [With around-view monitor]
21	G	- [With around-view monitor]
29	SHIELD	-
30	W	-
31	LG	-
32	BR	-

Connector No.	D33
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH24MW-NH



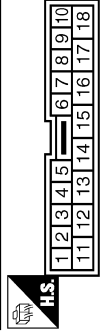
Terminal No.	Color of Wire	Signal Name [Specification]
3	W	-
4	LG	-
5	B	-
6	R	-
16	BR	-
17	G	-
18	Y	-

Connector No.	D34
Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)
Connector Type	NS02FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	R	-

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TK 0MW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

Connector No.	D56
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS02FBR-CS

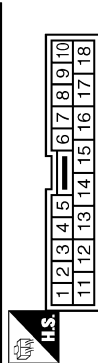


Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

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BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSS



Terminal No.	Color of Wire	Signal Name [Specification]
16	L	-
17	Y	-

Connector No.	D76
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS02FER-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



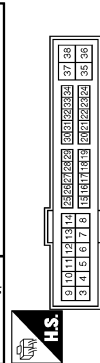
Terminal No.	Color of Wire	Signal Name [Specification]
13	R	-
14	L	- [With around view monitor]
15	Y	-
16	G	- [With around view monitor]
17	W	- [With around view monitor]
18	SHIELD	-

Connector No.	D111
Connector Name	REAR CAMERA
Connector Type	TH08MMF-NH

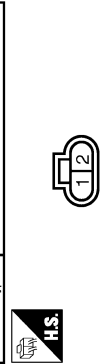


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR CAMERA IMAGE GND
4	W	REAR CAMERA COMM
5	Y	REAR CAMERA IMAGE SIGNAL
7	L	REAR CAMERA GND
8	R	REAR CAMERA POWER SUPPLY

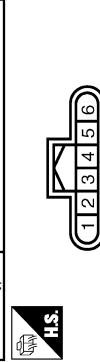
Connector No.	E5
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH02FW-CS12-M4-TV



Connector No.	E63
Connector Name	CORNER SENSOR (FL)
Connector Type	YDX02FB



Connector No.	E73
Connector Name	FRONT CAMERA
Connector Type	RH06FB



Connector No.	E81
Connector Name	WIRE TO WIRE
Connector Type	RS02MB



Terminal No.	Color of Wire	Signal Name [Specification]
25	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	B	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	FRONT CAMERA POWER SUPPLY
2	BR	FRONT CAMERA GND
3	Y	FRONT CAMERA IMAGE SIGNAL
4	L	FRONT CAMERA IMAGE GND
6	W	FRONT CAMERA COMM

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	L	-

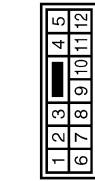
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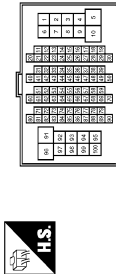
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	E104
Connector Name	WIRE TO WIRE
Connector Type	HS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	BR	-
3	L	-
4	SHIELD	-
7	Y	-
8	R	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TK86FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	W	-
3	R	-
4	GR	-
5	O	-
6	G	-
8	Y	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB01FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	E151
Connector Name	WIRE TO WIRE
Connector Type	RS02FB



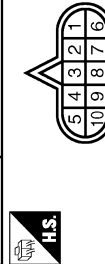
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	B	-

Connector No.	E152
Connector Name	CORNER SENSOR (FR)
Connector Type	YDX02FE



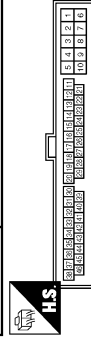
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	B	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



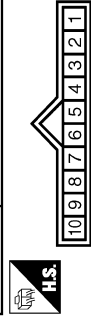
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
31	R	-

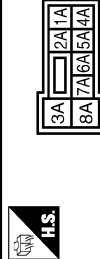
Connector No.	F151
Connector Name	TOM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FBGY



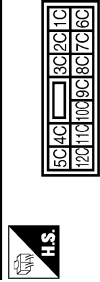
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

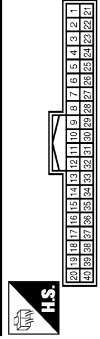
Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NSDBFW-M2



Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Connector No.	M4
Connector Name	WIRE TO WIRE
Connector Type	TH4DFW-NH



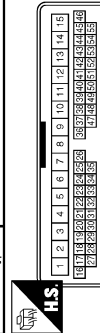
26	W	-
27	B	-
28	G	-
29	Y	-
30	R	-
31	R	-
32	SHIELD	-
33	R	-
34	W	-
35	B	-
36	SHIELD	-
37	B	-
38	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	V	-

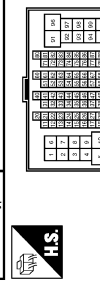
Terminal No.	Color of Wire	Signal Name [Specification]
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Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	P	-
3	V	-
4	V	-
12	B	-
14	LG	-
15	G	-
16	W	-
17	R	-
18	Y	-
25	SHIELD	-

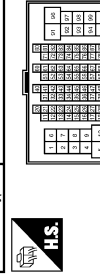
Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SB	-
67	V	-
68	SB	-
69	SHIELD	-
70	V	-
80	O	-

Terminal No.	Color of Wire	Signal Name [Specification]
4	P	-
5	L	-
16	R	-
17	B	-
18	G	-
19	Y	-
27	W	-
28	SHIELD	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	R	-
3	W	-
4	SHIELD	-
59	V	-
84	G	-
93	Y	-

Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
41	BR	-
42	R	-
44	LG	-
45	V	-
46	G	-
47	R	-
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M13
Connector Name	FRONT SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	
7	V	
14	P	

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-GS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	
3	V	
4	LG	
5	Y	
6	G	
7	L	
11	V	
12	SB	
13	Y	
14	Y	

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-TV



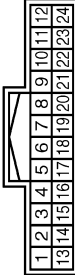
Terminal No.	Color of Wire	Signal Name [Specification]
24	P	
31	L	
33	B	

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN

Connector No.	M47
Connector Name	SOHAR CONTROL UNIT
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	R	CORNER SENSOR FRONT LH
4	W	CORNER SENSOR FRONT RH
5	W	CORNER SENSOR REAR LH
6	R	CORNER SENSOR REAR RH
12	B	SENSOR GND
13	V	ACC
18	O	K LINE
19	G	AV COMM (H)
20	R	AV COMM (L)
23	GR	BULLZER
24	B	GND

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



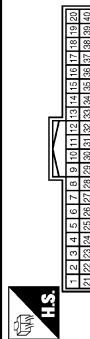
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	
2	G	

15	LG	-
16	P	-

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BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH46FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH42FW-NH



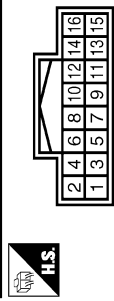
Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M68
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS2FL-M2



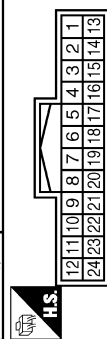
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	V	AGC
6	LG	AV COMM (H)
8	V	AV COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL

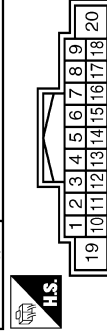
Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	V	ACC
4	SHIELD	SHIELD
5	R	AUX IMAGE GND
6	W	RGB (G GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (VS) SIGNAL
11	BR	COMM (CONT->DISP)
12	W	CAMERA IMAGE SIGNAL

Terminal No.	Color of Wire	Signal Name [Specification]
13	B	GND
14	SHIELD	SHIELD
15	G	AUX IMAGE SIGNAL
17	R	RGB (R RED) SIGNAL
18	R	RGB (B BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-GS2



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	AMP_ON SIGNAL
2	P	SOUND SIGNAL FRONT LH (+)
3	L	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	SB	SOUND SIGNAL REAR LH (-)
6	P	STRG SW A
7	V	ACC
9	R	ILLUMINATION
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (+)
12	G	SOUND SIGNAL FRONT RH (-)

Terminal No.	Color of Wire	Signal Name [Specification]
13	BR	SOUND SIGNAL REAR RH (+)
14	Y	SOUND SIGNAL REAR RH (-)
15	B	STRG SW GND
16	L	STRG SW B
19	Y	BATTERY
20	B	GND

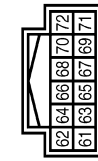
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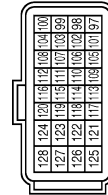
72	SHIELD	SHIELD
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Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
61	B	RGB (R: RED) SIGNAL
62	W	RGB (G: GREEN) SIGNAL
63	R	RGB (B: BLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (VS) SIGNAL
68	R	I/P
69	W	V/P
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FY-R28-R-LH-Z

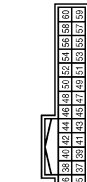


Terminal No.	Color of Wire	Signal Name [Specification]
T13	P	VEHCAN-L1
T14	L	VEHCAN-H1

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

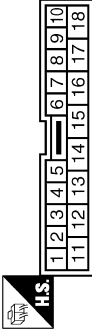
38	R	VEHICLE SPEED (8-PULSE)
41	B	CONTROL SIGNAL 1
42	B	CONTROL SIGNAL 2
43	GR	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
48	G	AV COMM (H)
49	R	AV COMM (L)
50	LG	AV COMM (H)
51	V	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH40FW-NH



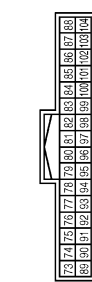
Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	Y	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
35	G	IGNITION
36	V	PARKING BRAKE
37	O	REVERSE

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSB



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	-- [With NAVI]
3	G	-- [With NAVI]
4	SHIELD	-- [With NAVI]

Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH82FW-NH

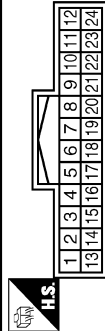


Terminal No.	Color of Wire	Signal Name [Specification]
78	R	Pod SOUND SIGNAL LH (+)
80	B	Pod SOUND SIGNAL RH (+)
85	SB	DISK EJECT SIGNAL
86	SHIELD	SHIELD
87	R	AUX SOUND SIGNAL LH (+)
88	W	AUX SOUND SIGNAL GND
95	W	Pod SOUND SIGNAL LH (+)
96	G	Pod SOUND SIGNAL RH (+)
102	BR	SW GND
103	B	AUX SOUND SIGNAL RH (+)

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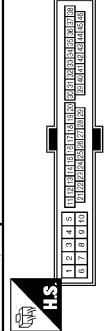
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH4FV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod->iPod ADAPTER)
11	O	ACCESSORY IDENTITY
12	R	iPod SOUND SIGNAL RH (+)
13	W	iPod SOUND SIGNAL LH (-)

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK35MW-NS10

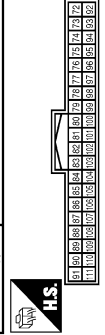


Terminal No.	Color of Wire	Signal Name [Specification]
31	W	-

14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	CG	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

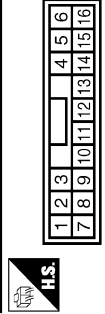
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (-)
2	W	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	R	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTITY

Connector No.	M122
Connector Name	BCM BODY CONTROL MODULE
Connector Type	TH4JFB-NH



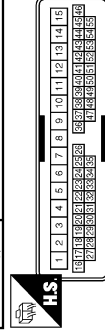
Terminal No.	Color of Wire	Signal Name [Specification]
91	L	CAN-L
91	L	CAN-H

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP1BEY



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH4DMV-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	LG	-
18	R	-
19	B	-
20	Y	- [With around view monitor]
21	G	- [With around view monitor]
29	SHIELD	-
30	W	-
31	LG	-
32	G	-

Connector No.	M114
Connector Name	FRONT SQUAWKER RH
Connector Type	TK02FBR



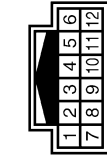
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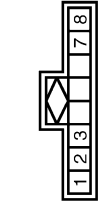
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	THZ2MW-NH



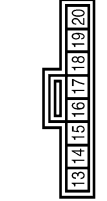
Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	
6	W	

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB8FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	AUX SOUND SIGNAL RH (+)
2	W	AUX SOUND SIGNAL GND
3	R	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	TK6BEGY



Terminal No.	Color of Wire	Signal Name [Specification]
14	W	
15	L	
17	BR	

Connector No.	M371
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SH-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
105	-	FM SUB
106	-	AM-FM MAIN
107	-	ANTENNA AMP. ON SIGNAL

Connector No.	M372
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKRA JACK



Terminal No.	Color of Wire	Signal Name [Specification]
108	-	SAATELLITE ANTENNA

Connector No.	M373
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT5-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
110	-	GPS ANTENNA
111	SHIELD	SHIELD

Connector No.	M374
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	
2	-	
3	-	

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M376	Connector No.	M377	Connector No.	M378	Connector No.	M380
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU	Connector Type	GT16C-1PP-HU	Connector Type	GT13SC-2/1S-HU	Connector Type	GT16-1S-HU

Terminal No.	1	2	3	Terminal No.	1	2
Color of Wire	-	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	-	Signal Name [Specification]	-	-

Terminal No.	1	2	3	Terminal No.	1	2
Color of Wire	-	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	-	Signal Name [Specification]	-	-

Terminal No.	1	2	3	Terminal No.	1	2
Color of Wire	-	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	-	Signal Name [Specification]	-	-

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BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M337
Connector Name	WIRE TO WIRE
Connector Type	JASO JACK



Terminal No.	1	Signal Name [Specification]	-
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Connector No.	M388
Connector Name	WIRE TO WIRE
Connector Type	JASO PLUG



Terminal No.	1	Signal Name [Specification]	-
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Connector No.	M389
Connector Name	WINDOW ANTENNA (SUB)
Connector Type	F01FB-A



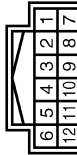
Terminal No.	1	Signal Name [Specification]	-
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Connector No.	RT
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NBS



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	- [With NAVI]
3	G	- [With NAVI]
4	SHIELD	-

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	R	- [With NAVI]
5	G	- [With NAVI]

Connector No.	RT1
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	-
5	R	-

Connector No.	RT7
Connector Name	MICROPHONE
Connector Type	TKG4FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
4	R	MICROPHONE VCC

IPOD ADAPTER

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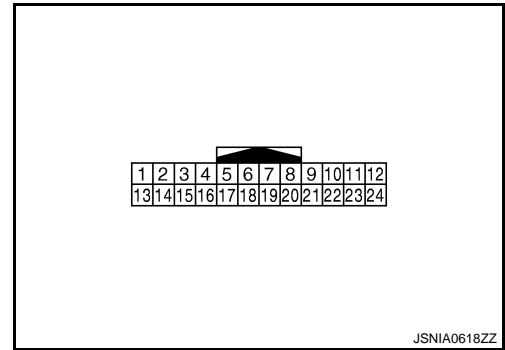
[BOSE AUDIO WITH NAVIGATION]

IPOD ADAPTER

Reference Value

INFOID:000000003160748

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (R)	13 (W)	iPod sound signal LH	Output	Ignition switch ON	When iPod mode is select- ed	<p style="text-align: right;">SKIB3609E</p>
2 (B)	14 (G)	iPod sound signal RH	Output	Ignition switch ON	When iPod mode is select- ed	<p style="text-align: right;">SKIB3609E</p>
3 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
4 (R)	—	AV communication signal (L)	Input/ Output	—	—	—
5 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
8 (W)	Ground	iPod battery charge	Output	Ignition switch ON	Connected to iPod®	12.0 V

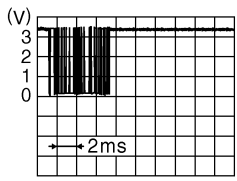
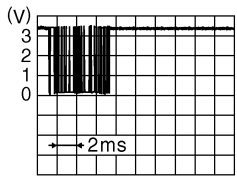
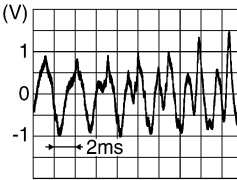
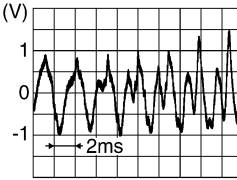
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IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
9 (P)	Ground	Communication signal (iPod adapter→iPod®)	Output	Ignition switch ON	The wave pattern is displayed just after iPod connection.	 <p style="text-align: right; font-size: small;">JPNIA0462GB</p> <p>NOTE: After the wave pattern display, the value continues Approx 3.3 V</p>
10 (L)	Ground	Communication signal (iPod®→iPod adapter)	Input	Ignition switch ON	Connected to iPod®	 <p style="text-align: right; font-size: small;">JPNIA0462GB</p>
11 (O)	Ground	ACCESSORY-IDENTIFY	—	Ignition switch ON	Connected to iPod®	0 V
12 (R)	23 (W)	iPod sound signal RH	Input	Ignition switch ON	When iPod mode is selected	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
15	—	Shield	—	—	—	—
16 (G)	—	AV communication signal (H)	Input/ Output	—	—	—
17 (BR)	Ground	Ground	—	Ignition switch ON	—	0 V
19	—	Shield	—	—	—	—
21 (W)	Ground	iPod connection recognition signal	Input	Ignition switch ON	Not connected to iPod®	4.0 V
					Connected to iPod®	0 V
22 (G)	Ground	ACCESSORY-DETECT	—	Ignition switch ON	Connected to iPod®	0 V
24 (B)	23 (W)	iPod sound signal LH	Input	Ignition switch ON	When iPod mode is selected	 <p style="text-align: right; font-size: small;">SKIB3609E</p>

WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR

WITHOUT REAR VIEW MONITOR AND AROUND VIEW MONITOR : Wiring Diagram

IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

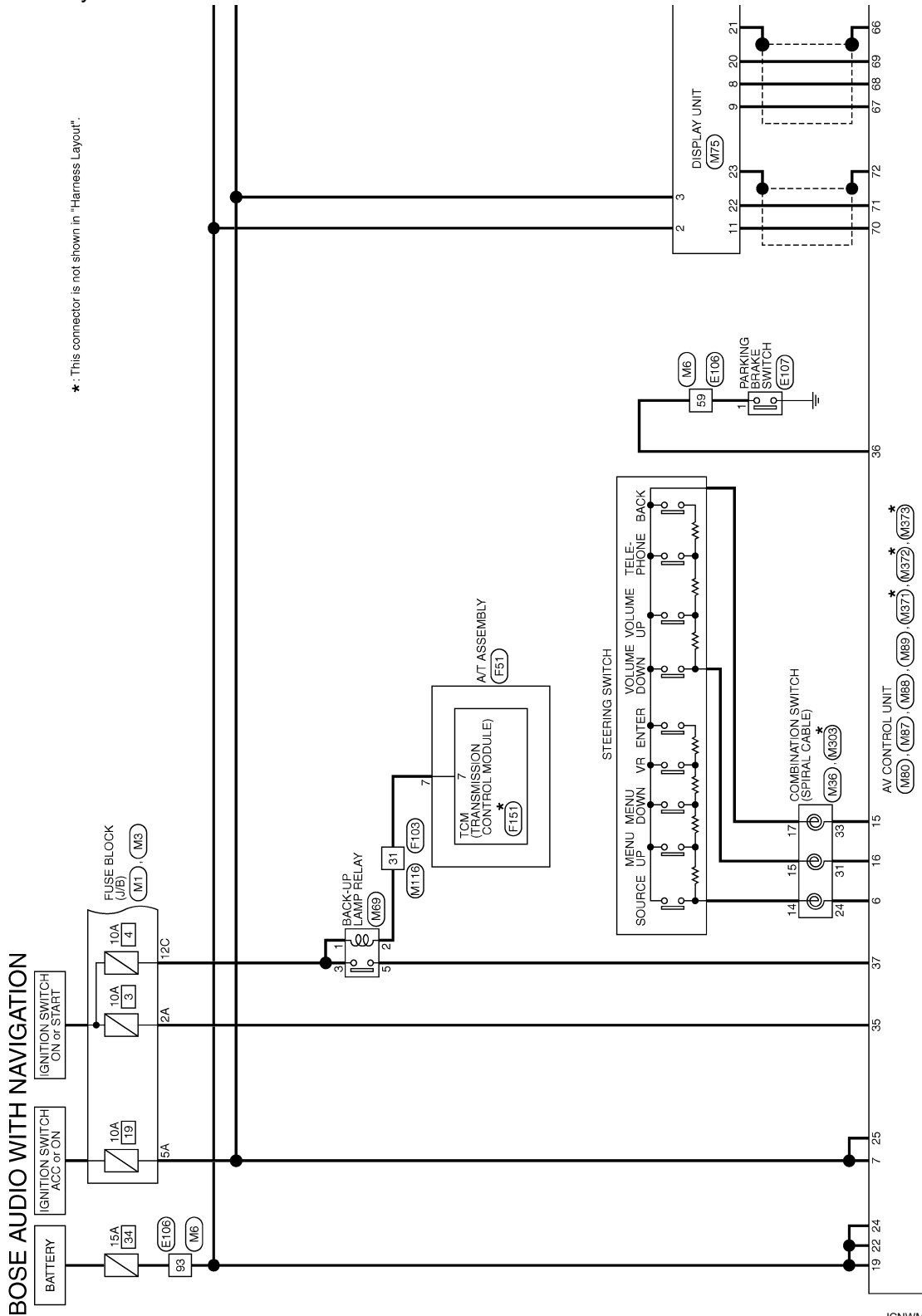
- BOSE AUDIO WITH NAVIGATION -

INFOID:000000003737134

Click here to view the eWD.

NOTE:

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.



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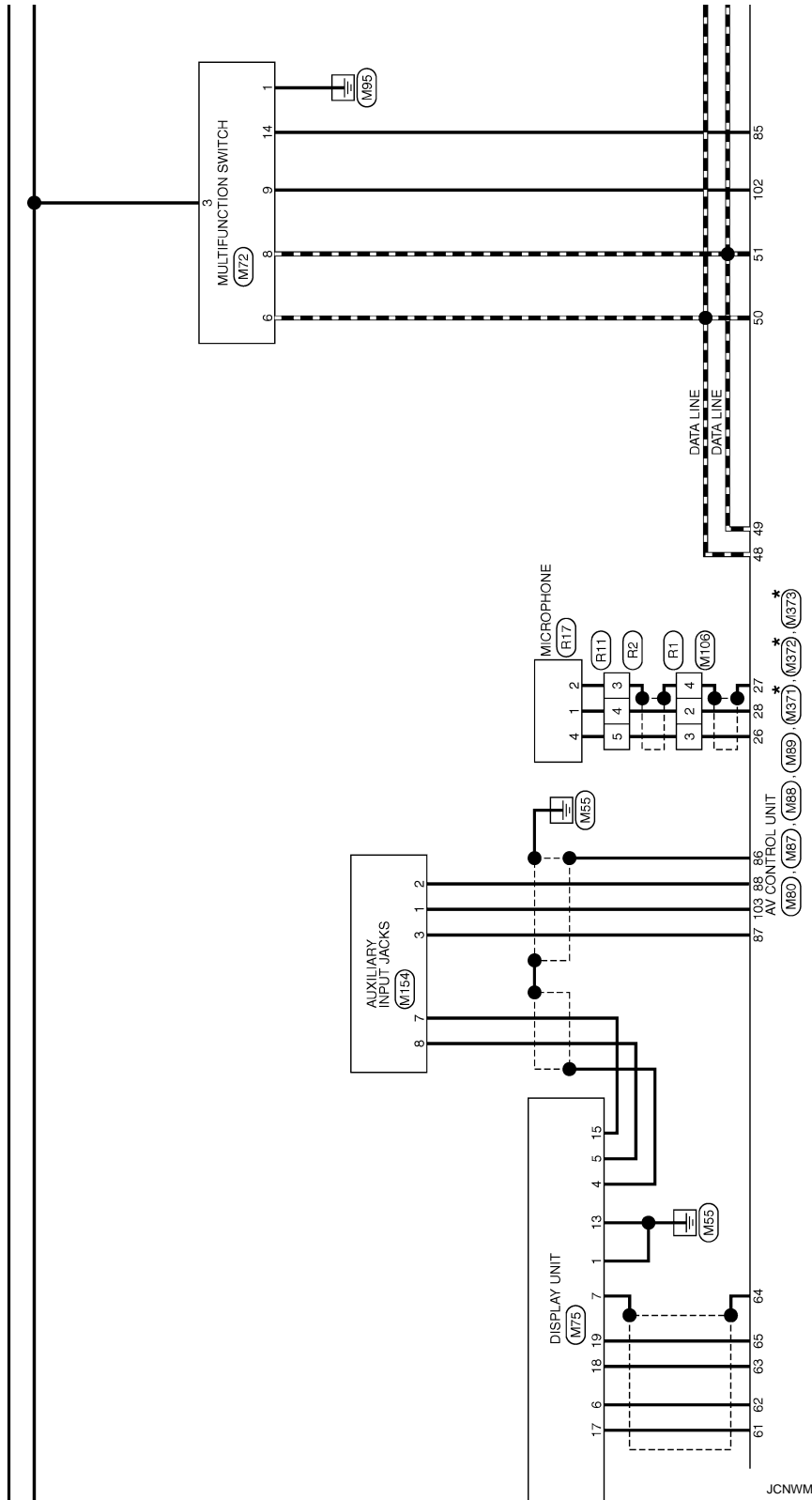
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IPOD ADAPTER

[BOSE AUDIO WITH NAVIGATION]

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*: This connector is not shown in "Harness Layout".

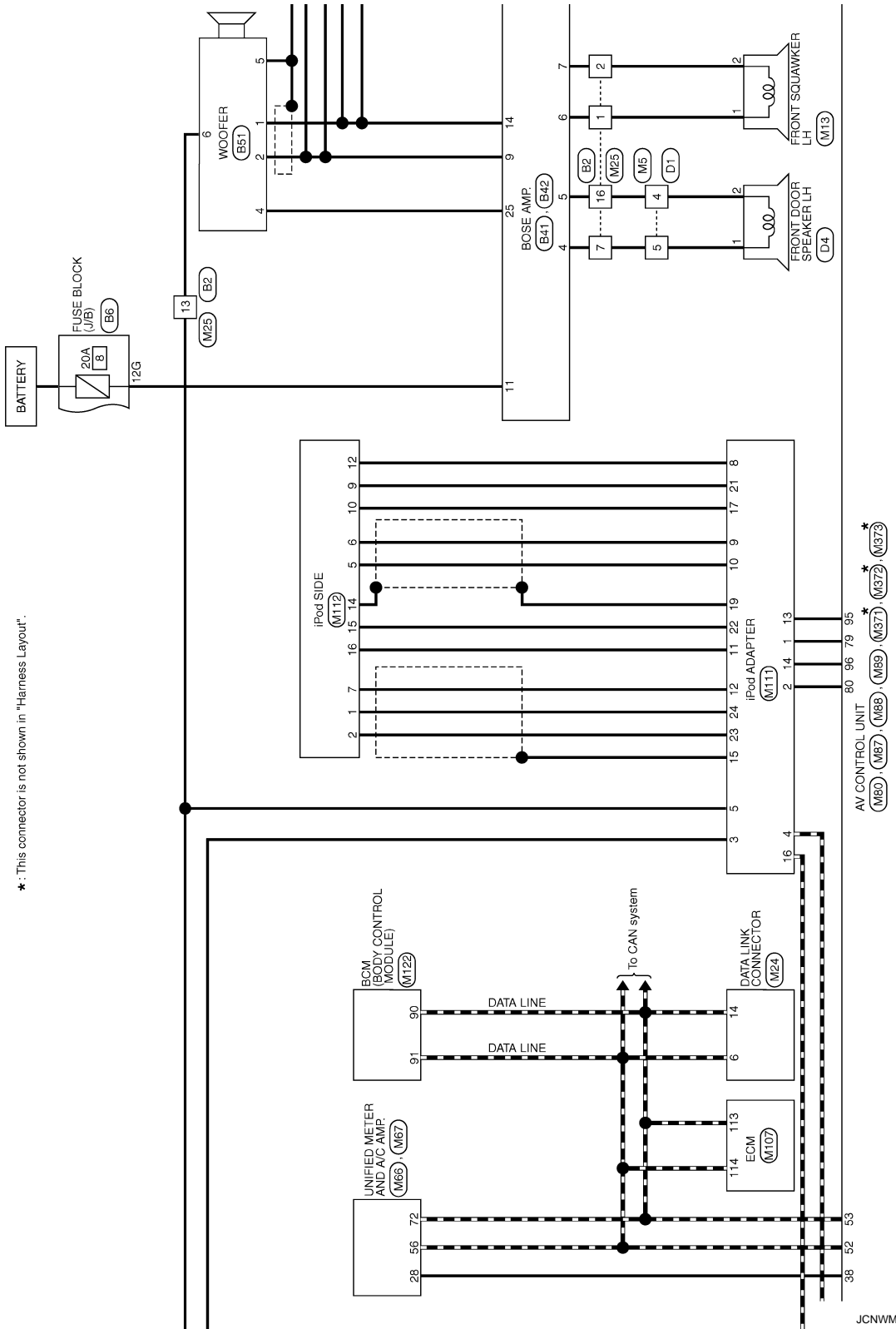


JCNWM0762GI

IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]



*: This connector is not shown in "Harness Layout".

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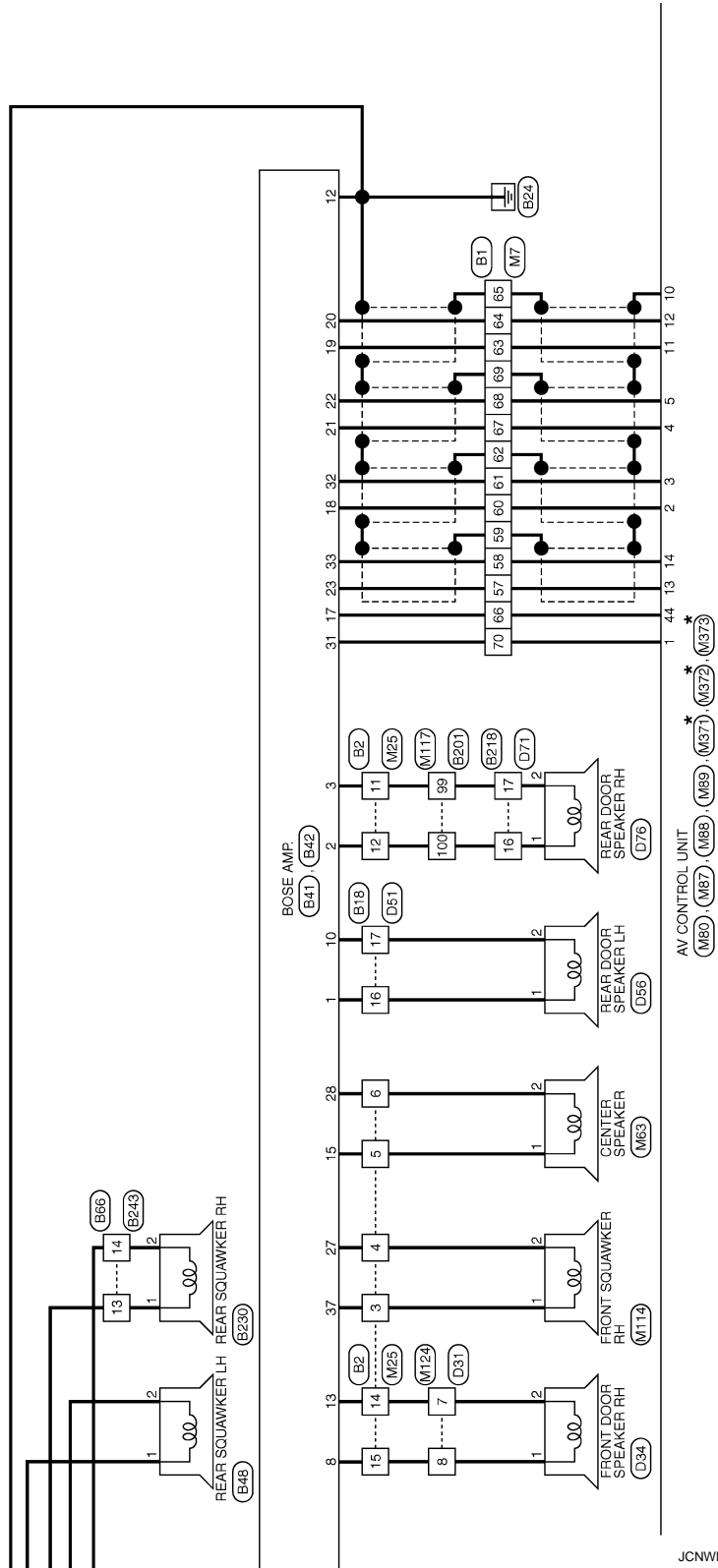
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IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

*: This connector is not shown in "Harness Layout".



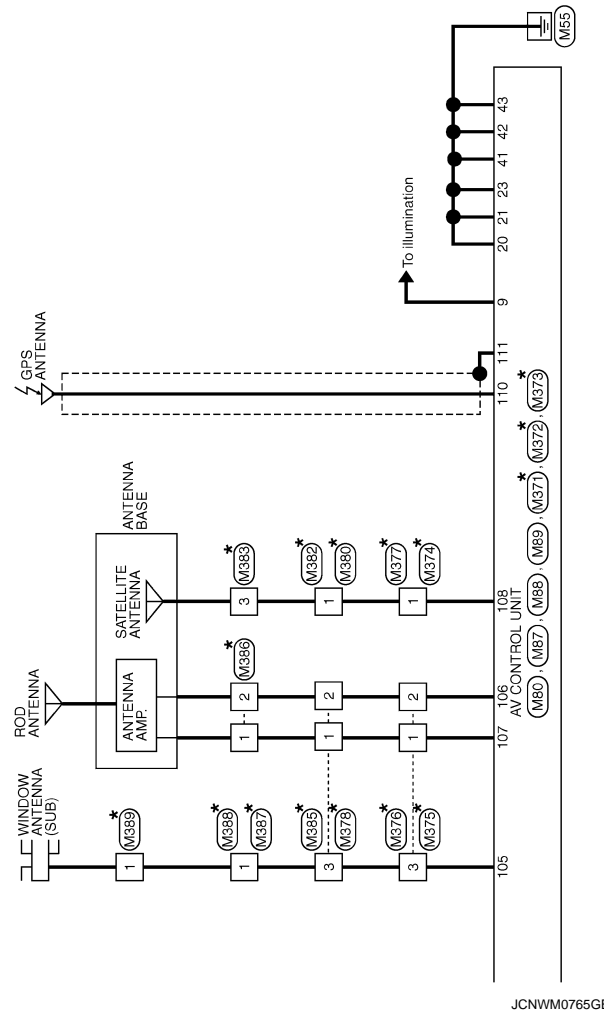
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IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

*: This connector is not shown in "Harness Layout".



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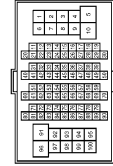
IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH807W-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-

Connector No.	B8
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12G	GR	-

68	SB
69	SHIELD
70	W

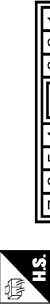


Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NSB



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
6	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FBR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (-)
17	O	MODE CHANGE SIGNAL
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	R	SOUND SIGNAL FRONT SOLAWKER RH (-)
28	G	SOUND SIGNAL CENTER (-)

15	LG
16	P

31	W	AMP. ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	BR	SOUND SIGNAL FRONT SOLAWKER RH (-)

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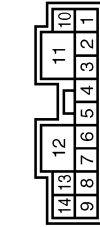
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[BOSE AUDIO WITH NAVIGATION]

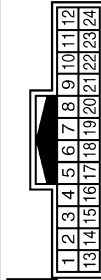
BOSE AUDIO WITH NAVIGATION

Connector No.	B62
Connector Name	BOSE AMP.
Connector Type	SGA1PFR-SJA2



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (+)
3	V	SOUND SIGNAL REAR DOOR RH (-)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
6	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
13	L	-
14	W	-

12	B	GND
13	Y	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
14	R	SOUND SIGNAL WOOFER (-)



Connector No.	B48
Connector Name	REAR SQUAWKER LH
Connector Type	TK0ZFBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
99	O	- [With BOSE audio]
100	L	- [With BOSE audio]

Connector No.	B51
Connector Name	WOOFER
Connector Type	RS08FG1-PR



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	W	BATTERY

Connector No.	B230
Connector Name	REAR SQUAWKER RH
Connector Type	TK0ZFBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

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A
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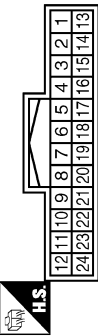
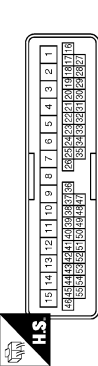

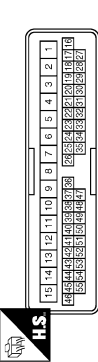
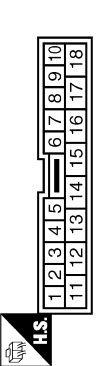


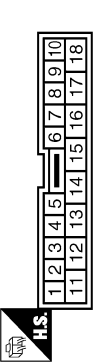
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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION

<table border="1"> <tr><td>Connector No.</td><td>B243</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH24PW-RH</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>13</td><td>L</td><td>-</td></tr> <tr><td>14</td><td>W</td><td>-</td></tr> </table>	Connector No.	B243	Connector Name	WIRE TO WIRE	Connector Type	TH24PW-RH	Terminal No.	Color of Wire	Signal Name [Specification]	13	L	-	14	W	-	<table border="1"> <tr><td>Connector No.</td><td>D1</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH40FW-CS15</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>4</td><td>W</td><td>-</td></tr> <tr><td>5</td><td>L</td><td>-</td></tr> </table>	Connector No.	D1	Connector Name	WIRE TO WIRE	Connector Type	TH40FW-CS15	Terminal No.	Color of Wire	Signal Name [Specification]	4	W	-	5	L	-	<table border="1"> <tr><td>Connector No.</td><td>D4</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)</td></tr> <tr><td>Connector Type</td><td>NS02FBR-CS</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>L</td><td>-</td></tr> <tr><td>2</td><td>W</td><td>-</td></tr> </table>	Connector No.	D4	Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)	Connector Type	NS02FBR-CS	Terminal No.	Color of Wire	Signal Name [Specification]	1	L	-	2	W	-	<table border="1"> <tr><td>Connector No.</td><td>D31</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH40FW-CS15</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>7</td><td>R</td><td>-</td></tr> <tr><td>8</td><td>BR</td><td>-</td></tr> </table>	Connector No.	D31	Connector Name	WIRE TO WIRE	Connector Type	TH40FW-CS15	Terminal No.	Color of Wire	Signal Name [Specification]	7	R	-	8	BR	-	<table border="1"> <tr><td>Connector No.</td><td>D51</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TK10MW-NS8</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>16</td><td>Y</td><td>- [With BOSE audio]</td></tr> <tr><td>17</td><td>G</td><td>- [With BOSE audio]</td></tr> </table>	Connector No.	D51	Connector Name	WIRE TO WIRE	Connector Type	TK10MW-NS8	Terminal No.	Color of Wire	Signal Name [Specification]	16	Y	- [With BOSE audio]	17	G	- [With BOSE audio]	<table border="1"> <tr><td>Connector No.</td><td>D56</td></tr> <tr><td>Connector Name</td><td>REAR DOOR SPEAKER LH</td></tr> <tr><td>Connector Type</td><td>NS02FBR-CS</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>Y</td><td>-</td></tr> <tr><td>2</td><td>G</td><td>-</td></tr> </table>	Connector No.	D56	Connector Name	REAR DOOR SPEAKER LH	Connector Type	NS02FBR-CS	Terminal No.	Color of Wire	Signal Name [Specification]	1	Y	-	2	G	-	<table border="1"> <tr><td>Connector No.</td><td>D34</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)</td></tr> <tr><td>Connector Type</td><td>NS02FBR-CS</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>BR</td><td>-</td></tr> <tr><td>2</td><td>R</td><td>-</td></tr> </table>	Connector No.	D34	Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)	Connector Type	NS02FBR-CS	Terminal No.	Color of Wire	Signal Name [Specification]	1	BR	-	2	R	-	<table border="1"> <tr><td>Connector No.</td><td>D71</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TK10MW-NS8</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>16</td><td>L</td><td>-</td></tr> <tr><td>17</td><td>Y</td><td>-</td></tr> </table>	Connector No.	D71	Connector Name	WIRE TO WIRE	Connector Type	TK10MW-NS8	Terminal No.	Color of Wire	Signal Name [Specification]	16	L	-	17	Y	-
Connector No.	B243																																																																																																																														
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[BOSE AUDIO WITH NAVIGATION]

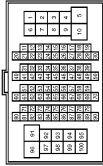
BOSE AUDIO WITH NAVIGATION

Connector No.	D76
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS2ZFB-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH8GFW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
59	O	-
93	Y	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB01FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	E11
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK3BFW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
31	R	-

Connector No.	F151
Connector Name	TSM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FBGY



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10BFW-M2



Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	V	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

A
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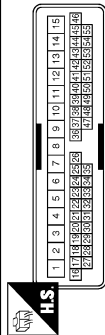
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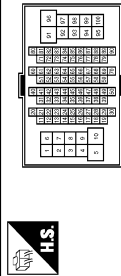
BOSE AUDIO WITH NAVIGATION

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH20MW-CS15



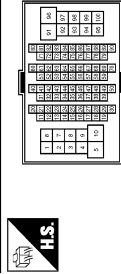
Terminal No.	Color of Wire	Signal Name [Specification]
4	P	-
5	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



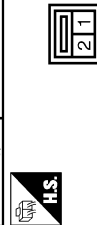
Terminal No.	Color of Wire	Signal Name [Specification]
59	V	-
93	Y	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH20MW-CS18-TM4



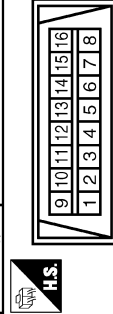
Terminal No.	Color of Wire	Signal Name [Specification]
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SB	-
67	V	-

Connector No.	M13
Connector Name	FRONT SQUAWKER LH
Connector Type	TK02FBR



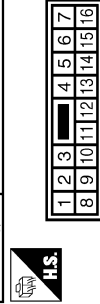
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS18MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	V	-
4	LG	-
5	Y	-
6	G	-
7	L	-
11	V	-
12	SB	-
13	Y	-
14	Y	-

68	SB
69	SHIELD
70	V

15	LG
16	P

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION

Connector No.	M36	Connector No.	M66	Connector No.	M63	Connector No.	M67
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)	Connector Name	UNIFIED METER AND A/C AMP.	Connector Name	CENTER SPEAKER	Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TK08FGT-IV	Connector Type	TH46FW-NH	Connector Type	TK02FBR	Connector Type	TH42FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
31	L	-
33	B	-

Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
15	G	AUX IMAGE SIGNAL
17	B	RGB (R-RED) SIGNAL
18	R	RGB (B-BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
31	L	-
33	B	-

Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
15	G	AUX IMAGE SIGNAL
17	B	RGB (R-RED) SIGNAL
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19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
31	L	-
33	B	-

Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
15	G	AUX IMAGE SIGNAL
17	B	RGB (R-RED) SIGNAL
18	R	RGB (B-BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
31	L	-
33	B	-

Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
15	G	AUX IMAGE SIGNAL
17	B	RGB (R-RED) SIGNAL
18	R	RGB (B-BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	V	ACC
6	LG	AV COMM (H)
8	V	AV COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL

Terminal No.	Color of Wire	Signal Name [Specification]
15	G	AUX IMAGE SIGNAL
17	B	RGB (R-RED) SIGNAL
18	R	RGB (B-BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
31	L	-
33	B	-

Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
15	G	AUX IMAGE SIGNAL
17	B	RGB (R-RED) SIGNAL
18	R	RGB (B-BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
31	L	-
33	B	-

Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
15	G	AUX IMAGE SIGNAL
17	B	RGB (R-RED) SIGNAL
18	R	RGB (B-BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

Terminal No.	Color of Wire	Signal Name [Specification]
24	P	-
31	L	-
33	B	-

Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
15	G	AUX IMAGE SIGNAL
17	B	RGB (R-RED) SIGNAL
18	R	RGB (B-BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

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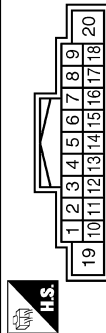
IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

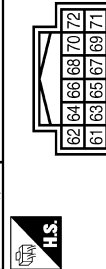
BOSE AUDIO WITH NAVIGATION

Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-GSZ



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	AMP. ON SIGNAL
2	P	SOUND SIGNAL FRONT LH (+)
3	L	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	SB	SOUND SIGNAL REAR LH (-)
6	P	STRG SW A
7	V	ACC
8	R	ILLUMINATION
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (+)
12	G	SOUND SIGNAL FRONT RH (-)

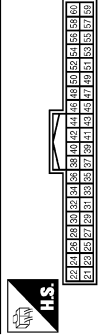
Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
61	B	RGB (R, RED) SIGNAL
62	W	RGB (G, GREEN) SIGNAL
63	R	RGB (B, BLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (VS) SIGNAL
68	R	HP
69	W	VP
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

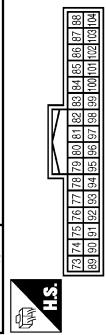
13	BR	SOUND SIGNAL REAR RH (+)
14	Y	SOUND SIGNAL REAR RH (-)
15	B	STRG SW GND
16	L	STRG SW B
18	Y	BATTERY
20	B	GND

Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	V	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
35	G	IGNITION
36	V	PARKING BRAKE
37	O	REVERSE

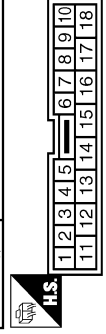
Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
79	R	iPod SOUND SIGNAL LH (+)
80	B	iPod SOUND SIGNAL RH (+)
85	SB	DISK EJECT SIGNAL
86	SHIELD	SHIELD
87	R	AUX SOUND SIGNAL LH (+)
88	W	AUX SOUND SIGNAL GND
95	W	iPod SOUND SIGNAL LH (-)
96	G	iPod SOUND SIGNAL RH (-)
102	BR	SW GND
103	B	AUX SOUND SIGNAL RH (+)

38	R	VEHICLE SPEED (8-PUL/SE)
41	B	CONTROL SIGNAL 1
42	B	CONTROL SIGNAL 2
43	CR	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
46	G	AV COMM (F)
48	R	AV COMM (L)
49	LG	AV COMM (R)
51	V	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSS



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	--[With NAVI]
3	G	--[With NAVI]
4	SHIELD	--[With NAVI]

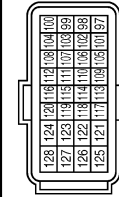
IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

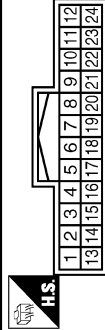
BOSE AUDIO WITH NAVIGATION

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-RZ8-R-LH-Z



Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-L1
114	L	VEHCAN-H1

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	AGC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod->iPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	R	iPod SOUND SIGNAL RH (+)
13	W	iPod SOUND SIGNAL LH (-)

Connector No.	M114
Connector Name	FRONT SQUAWKER RH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

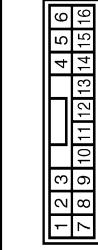
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	W	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	R	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

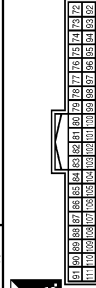


Terminal No.	Color of Wire	Signal Name [Specification]
99	V	- [With BOSE audio]
100	SB	- [With BOSE audio]

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP18FGY



Connector No.	M122
Connector Name	ECM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

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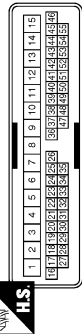


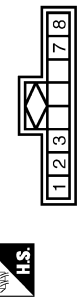


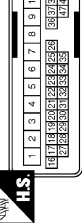
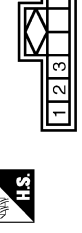

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IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION

<table border="1"> <tr><td>Connector No.</td><td>M124</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH40MW-CS15</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>7</td><td>Y</td><td>-</td></tr> <tr><td>8</td><td>LG</td><td>-</td></tr> </table>	Connector No.	M124	Connector Name	WIRE TO WIRE	Connector Type	TH40MW-CS15	Terminal No.	Color of Wire	Signal Name [Specification]	7	Y	-	8	LG	-	<table border="1"> <tr><td>Connector No.</td><td>M303</td></tr> <tr><td>Connector Name</td><td>COMBINATION SWITCH (SPIRAL CABLE)</td></tr> <tr><td>Connector Type</td><td>TK6BFGY</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>14</td><td>W</td><td>-</td></tr> <tr><td>15</td><td>L</td><td>-</td></tr> <tr><td>17</td><td>BR</td><td>-</td></tr> </table>	Connector No.	M303	Connector Name	COMBINATION SWITCH (SPIRAL CABLE)	Connector Type	TK6BFGY	Terminal No.	Color of Wire	Signal Name [Specification]	14	W	-	15	L	-	17	BR	-	<table border="1"> <tr><td>Connector No.</td><td>M371</td></tr> <tr><td>Connector Name</td><td>AV CONTROL UNIT (WITH NAVI)</td></tr> <tr><td>Connector Type</td><td>GT13SH-2/1S-HU</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>105</td><td>-</td><td>FM SUB</td></tr> <tr><td>106</td><td>-</td><td>AM-FM MAIN</td></tr> <tr><td>107</td><td>-</td><td>ANTENNA AMP. ON SIGNAL</td></tr> </table>	Connector No.	M371	Connector Name	AV CONTROL UNIT (WITH NAVI)	Connector Type	GT13SH-2/1S-HU	Terminal No.	Color of Wire	Signal Name [Specification]	105	-	FM SUB	106	-	AM-FM MAIN	107	-	ANTENNA AMP. ON SIGNAL			
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Connector No.	M154																																																							
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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION

Connector No.	M376	Connector No.	M378	Connector No.	M377	Connector No.	M380
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU	Connector Type	GT13SC-2/1S-HU	Connector Type	GT16C-1PP-HU	Connector Type	GT16-1S-HU

Terminal No.	1	2	3	Terminal No.	1	2	Terminal No.	1	2	Terminal No.	1	2		
Color of Wire	-	-	-	Color of Wire	-	-	Color of Wire	-	-	Color of Wire	-	-	Color of Wire	-
Signal Name [Specification]	-	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-

Connector No.	M382	Connector No.	M385	Connector No.	M383	Connector No.	M386
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	ANTENNA BASE	Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU	Connector Type	GT13SCN-2/1PP-HU	Connector Type	GT16C-1PP-HU	Connector Type	GT13SSN-1/1PP-HU

Terminal No.	1	2	Terminal No.	1	2	Terminal No.	1	2	Terminal No.	1	2		
Color of Wire	-	-	Color of Wire	-	-	Color of Wire	-	-	Color of Wire	-	-	Color of Wire	-
Signal Name [Specification]	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-

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[BOSE AUDIO WITH NAVIGATION]


BOSE AUDIO WITH NAVIGATION

Connector No.	M387
Connector Name	WIRE TO WIRE
Connector Type	JASO JACK




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M388
Connector Name	WIRE TO WIRE
Connector Type	JASO PLUG




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M389
Connector Name	WINDOW ANTENNA (SUB)
Connector Type	F01FB-A



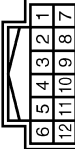
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	RT1
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NBS



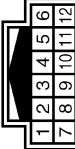
Terminal No.	Color of Wire	Signal Name [Specification]
2	R	- [With NAV]
3	G	- [With NAV]
4	SHIELD	-

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH




Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	R	- [With NAV]
5	G	- [With NAV]

Connector No.	RT1
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	-
5	R	-

Connector No.	RT7
Connector Name	MICROPHONE
Connector Type	TKG4FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	MICROPHONE SIGNAL
2	SHIELD	MICROPHONE GND
4	R	MICROPHONE VCC

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WITH REAR VIEW MONITOR

WITH REAR VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR -

INFOID:000000003737135

Click here to view the eWD.

NOTE:

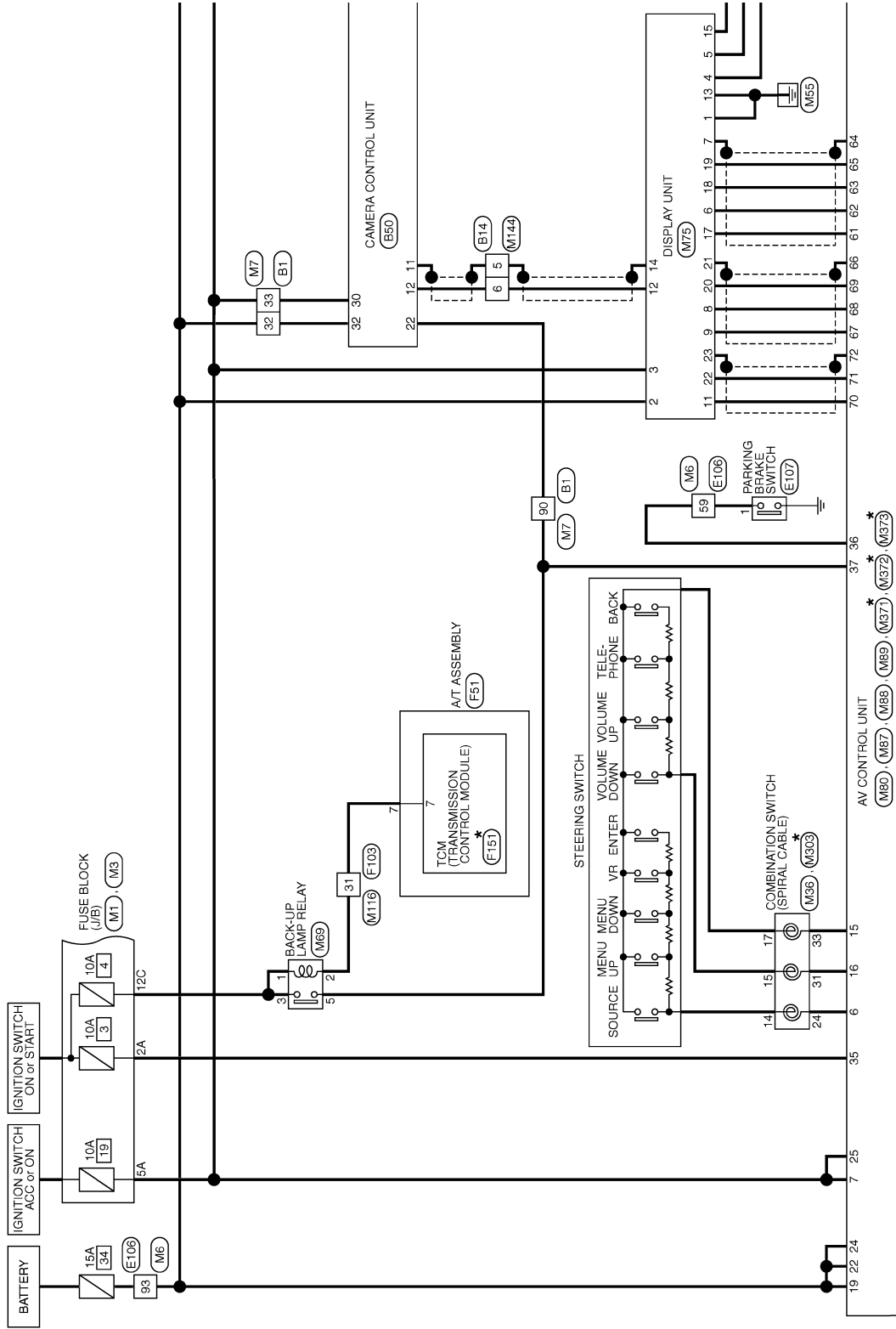
IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR



*: This connector is not shown in "Harness Layout".

2007/10/26

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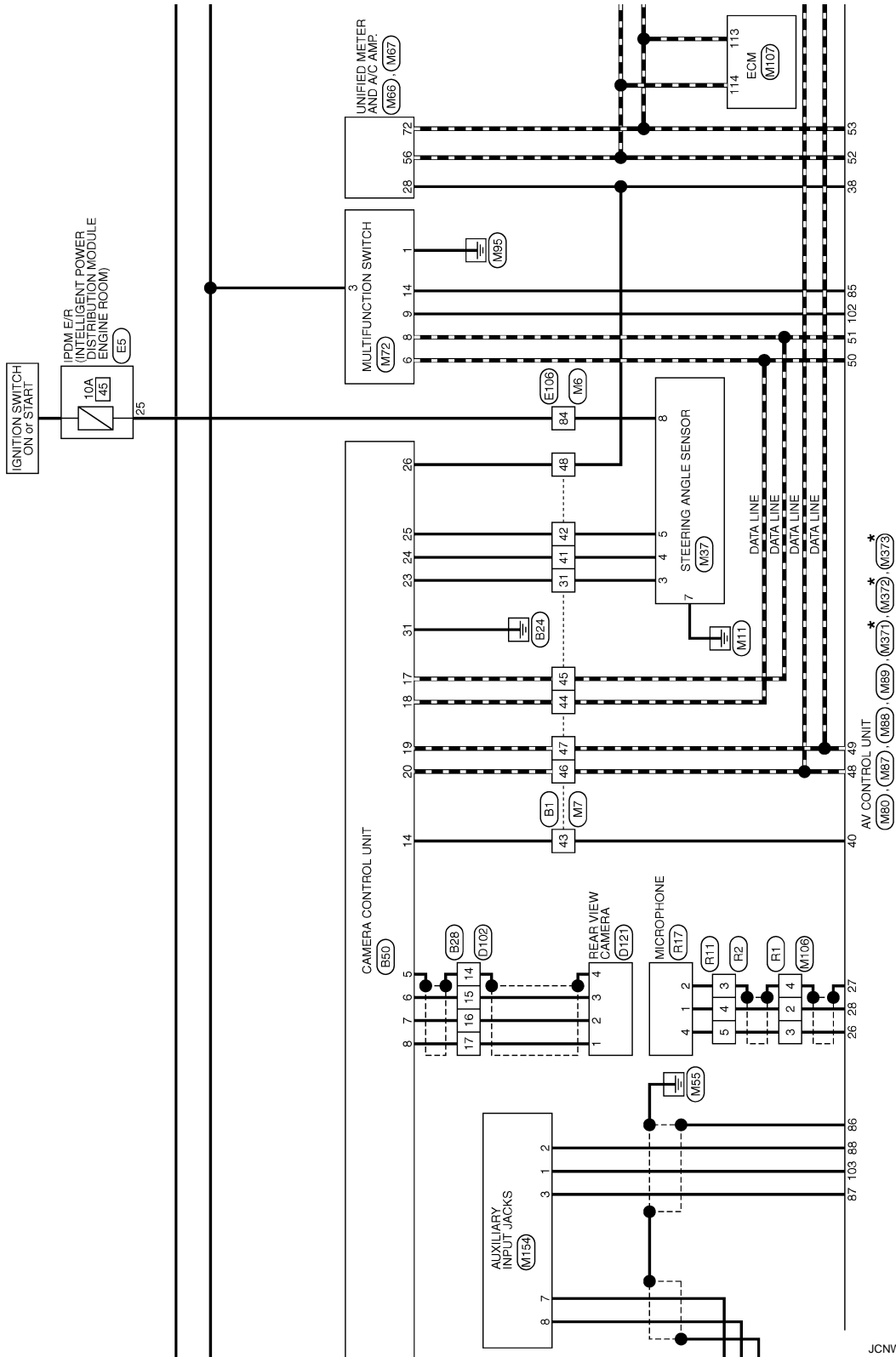
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[BOSE AUDIO WITH NAVIGATION]



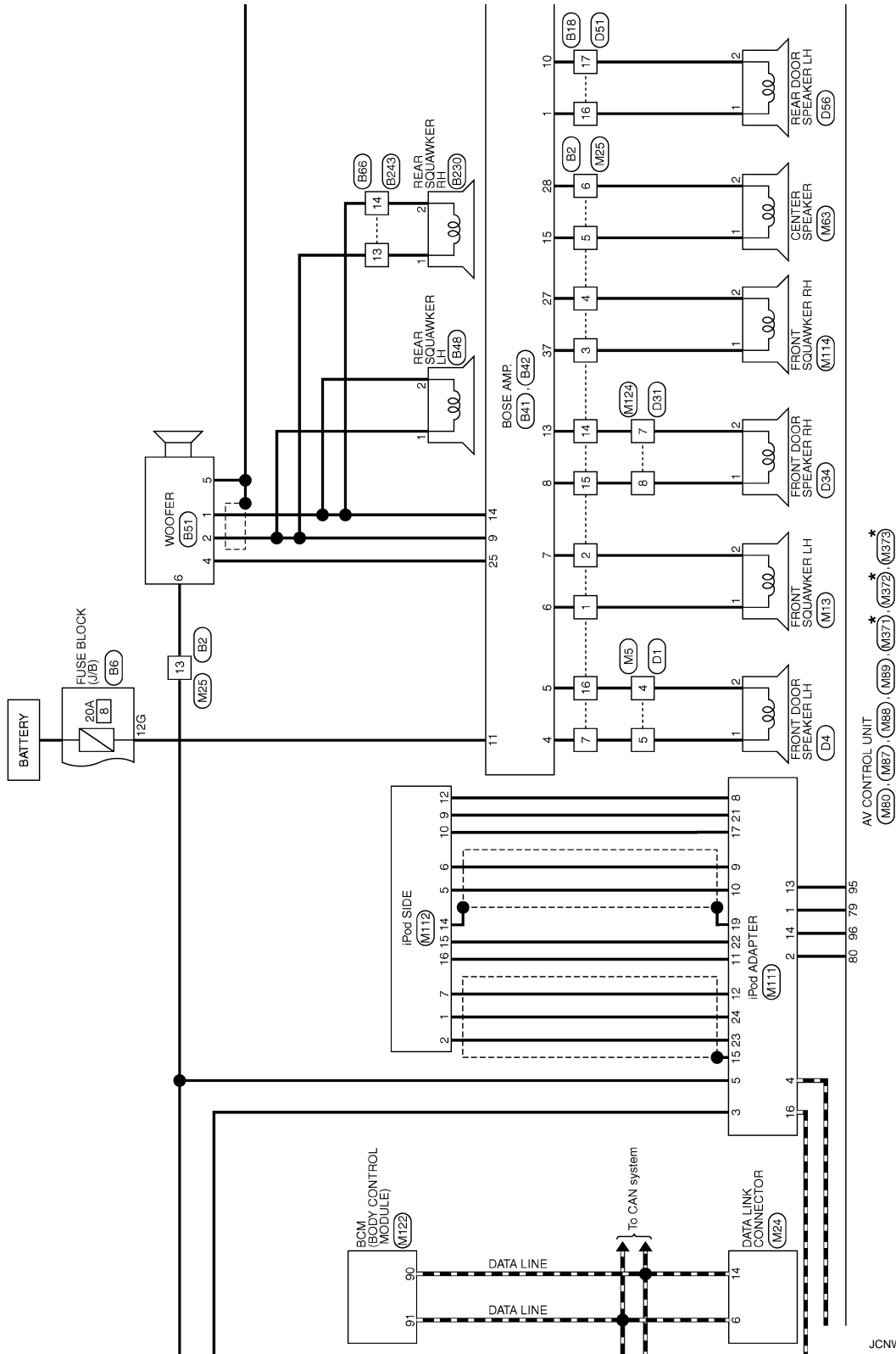
*: This connector is not shown in "Harness Layout".

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IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]



*: This connector is not shown in "Harness Layout".

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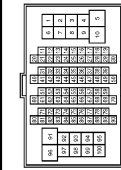
IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

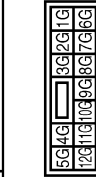
BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	L	-
33	LG	-
41	BR	-
42	R	-
43	W	-
44	LG	- [Without around view monitor]
45	V	- [Without around view monitor]
46	G	- [With base audio or with NAVI]
47	R	- [With base audio or with NAVI]
48	V	-

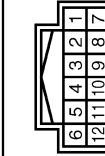
Connector No.	BB
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBF-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12G	GR	-

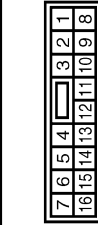
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
90	O	-

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



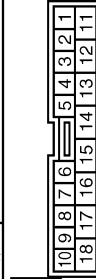
Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	-
6	W	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
8	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

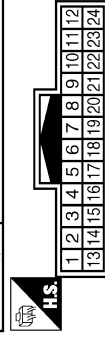
Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
18	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

15	LG
16	P

Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	W	- [Without around view monitor]
16	B	- [Without around view monitor]
17	R	- [Without around view monitor]

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IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA1PFR-SG44



37	36	35	34	33	32	31	30	29	28
27	26	25	24	23	22	21	20	19	18

Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (+)
17	O	MODE CHANGE SIGNAL
18	P	SOUND SIGNAL FRONT LH (+)
19	R	SOUND SIGNAL FRONT RH (+)
20	G	SOUND SIGNAL FRONT LH (-)
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	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (-)

Connector No.	B48
Connector Name	REAR SQUAWKER LH
Connector Type	TK02FR



2	1
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31	W	AMP. ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	BR	SOUND SIGNAL FRONT SQUAWKER RH (+)



14	13	12	11	10
9	8	7	6	5
4	3	2	1	

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (+)
3	V	SOUND SIGNAL REAR DOOR RH (-)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
6	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL WOOFER (+)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

Connector No.	B50
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH32FW-NH



2	4	6	10	12	14	16	18	20	22	24	26	28	30	32
1	3	5	7	9	11	13	15	17	19	21	23	25	27	29

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA1PFR-SU42



22	O	REVERSE
23	L	SENSOR SIGNAL 1
24	BR	SENSOR SIGNAL 2
25	R	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	L	BATTERY



2	4	6
1	3	5

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	W	BATTERY

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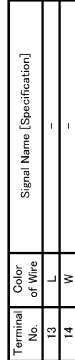
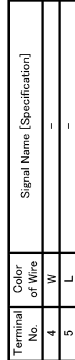
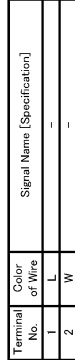
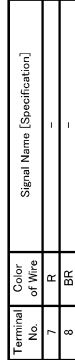
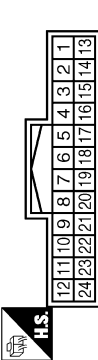
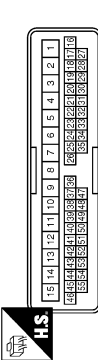
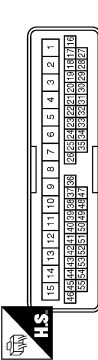
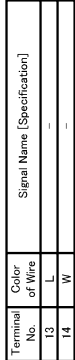
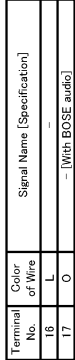
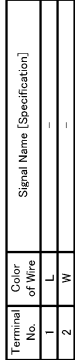
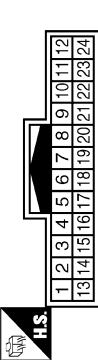
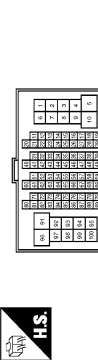
IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	Connector Name	Connector Type	Terminal No.	Color of Wire	Signal Name [Specification]
B66	WIRE TO WIRE	TH24WV-NH	1	L	
			2	W	
B201	WIRE TO WIRE	TH40FW-CS16-TM4	99	O	
			100	L	
B218	WIRE TO WIRE	TK10FW-NS8	16	L	
			17	O	
B240	REAR SQUAWKER RH	TK02FBR	1	L	
			2	W	
B243	WIRE TO WIRE	TH24FW-NH	12	L	
			13	L	
			14	W	
D1	WIRE TO WIRE	TH40FW-CS15	1	L	
			2	W	
D4	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)	NS02FBR-CS	1	L	
			2	W	
D31	WIRE TO WIRE	TH40FW-CS15	1	L	
			2	W	



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IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10

Terminal No.	Color of Wire	Signal Name [Specification]
31	R	

Connector No.	F51
Connector Name	A-7 ASSEMBLY
Connector Type	RK10FG-DCY

Terminal No.	Color of Wire	Signal Name [Specification]
7	R	

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB01FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	THB0FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
59	O	
84	G	
93	Y	

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15

Terminal No.	Color of Wire	Signal Name [Specification]
4	P	
5	L	

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS00FW-M2

Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	
5A	V	

Connector No.	F151
Connector Name	TOM (TRANSMISSION CONTROL MODULE)
Connector Type	SPI0FBGY

Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

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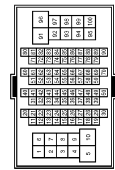
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[BOSE AUDIO WITH NAVIGATION]

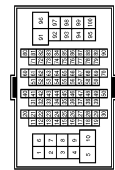
BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



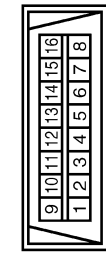
Terminal No.	Color of Wire	Signal Name [Specification]
59	V	
84	G	
93	Y	

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



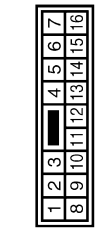
Terminal No.	Color of Wire	Signal Name [Specification]
31	L	
32	Y	
33	V	
41	BR	
42	R	
43	W	
44	LG	
45	V	
46	G	- [With base audio or with NAV]
47	R	- [With base audio or with NAV]
48	V	

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	
14	P	

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	
3	V	
4	LG	
5	Y	
6	G	
7	L	
11	V	
12	SB	
13	Y	
14	Y	

57	BR	
58	Y	
59	SHIELD	
60	P	
61	L	
62	SHIELD	
63	R	
64	G	
65	SHIELD	
66	SB	
67	V	
68	SB	
69	SHIELD	
70	V	
90	O	

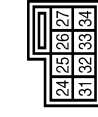
Connector No.	M13
Connector Name	FRONT SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

15	LG	
16	P	

Connector No.	M96
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-TV



Terminal No.	Color of Wire	Signal Name [Specification]
24	P	
31	L	
33	B	

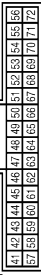
IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH2ZFW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH4BFW-NH



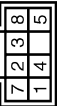
Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

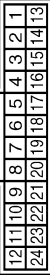
Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH8BFW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN

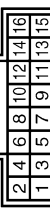
Terminal No.	Color of Wire	Signal Name [Specification]
13	B	GND
14	SHIELD	SHIELD
15	G	AUX IMAGE SIGNAL
17	B	RGB (R: RED) SIGNAL
18	R	RGB (B: BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH2ZFW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	V	ACC
4	SHIELD	SHIELD
5	R	AUX IMAGE GND
6	W	RGB (G: GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (YS) SIGNAL
11	BR	COMM (CONT->DISP)
12	W	CAMERA IMAGE SIGNAL

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH1BFW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	V	ACC
3	V	AV COMM (H)
6	LG	AV COMM (L)
8	V	SW GND
9	BR	DISK EJECT SIGNAL
14	SB	

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

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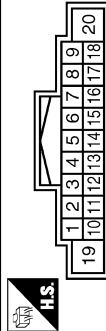
IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

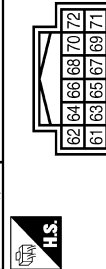
BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-GSZ



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	AMP. ON SIGNAL
2	P	SOUND SIGNAL FRONT LH (+)
3	L	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	SB	SOUND SIGNAL REAR LH (-)
6	P	STRG SW A
7	V	ACC
8	R	ILLUMINATION
9	SHIELD	SHIELD
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (+)
12	G	SOUND SIGNAL FRONT RH (-)

Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



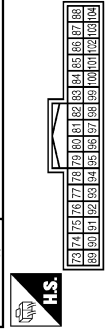
Terminal No.	Color of Wire	Signal Name [Specification]
61	B	RGB (R, RED) SIGNAL
62	W	RGB (G, GREEN) SIGNAL
63	R	RGB (B, BLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (YS) SIGNAL
68	R	HP
69	W	VP
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

Terminal No.	13	BR	SOUND SIGNAL REAR RH (+)
	14	Y	SOUND SIGNAL REAR RH (-)
	15	B	STRG SW GND
	16	L	STRG SW B
	18	Y	BATTERY
	20	B	GND



Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	Y	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	G	MICROPHONE SIGNAL
29	R	IGNITION
30	G	PARKING BRAKE
31	V	REVERSE
32	O	REVERSE

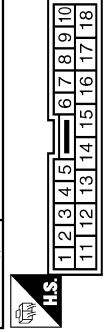
Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
79	R	iPod SOUND SIGNAL LH (+)
80	B	iPod SOUND SIGNAL RH (+)
85	SB	DISK EJECT SIGNAL
86	SHIELD	SHIELD
87	R	AUX SOUND SIGNAL LH (+)
88	W	AUX SOUND SIGNAL GND
95	W	iPod SOUND SIGNAL LH (-)
96	G	iPod SOUND SIGNAL RH (-)
102	BR	SW GND
103	B	AUX SOUND SIGNAL RH (+)

Terminal No.	38	R	VEHICLE SPEED (8-PUL/SE)
	40	W	CONNECTION RECOGNITION
	41	B	CONTROL SIGNAL 1
	42	B	CONTROL SIGNAL 2
	43	GR	CONTROL SIGNAL 3
	44	SB	MODE CHANGE SIGNAL
	48	G	AV COMM (R)
	49	R	AV COMM (L)
	50	LG	AV COMM (R)
	51	V	AV COMM (L)
	52	L	CAN-H
	53	P	CAN-L

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSS



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	--[With NAVI]
3	G	--[With NAVI]
4	SHIELD	--[With NAVI]

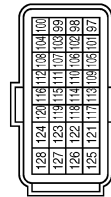
IPOD ADAPTER

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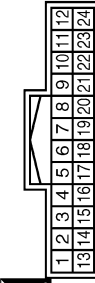
[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-RZ8-R-LH-Z



Connector No.	M111
Connector Name	IPOD ADAPTER
Connector Type	TH24FV-NH



14	G	IPOD SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	IPOD CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	IPOD SOUND SIGNAL GND
24	B	IPOD SOUND SIGNAL LH (+)

Connector No.	M112
Connector Name	IPOD SIDE
Connector Type	IP18FGY



Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-L1
114	L	VEHCAN-H1

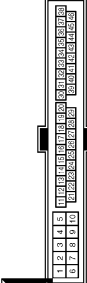
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	IPOD SOUND SIGNAL LH (+)
2	B	IPOD SOUND SIGNAL RH (+)
3	V	AV COMM (L)
4	R	BATTERY
5	Y	CHARGE POWER
8	W	COMM (IPOD ADAPTER->IPOD)
9	P	COMM (IPOD->IPOD ADAPTER)
10	L	ACCESSORY IDENTIFY
11	O	IPOD SOUND SIGNAL RH (+)
12	R	IPOD SOUND SIGNAL LH (-)
13	W	

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	IPOD SOUND SIGNAL LH (+)
2	W	IPOD SOUND SIGNAL GND
5	L	COMM (IPOD->IPOD ADAPTER)
6	P	COMM (IPOD ADAPTER->IPOD)
7	R	IPOD SOUND SIGNAL RH (+)
8	W	IPOD CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M114
Connector Name	FRONT SQUAWKER RH
Connector Type	TK02FBR



Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK38MW-NS10



Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Connector No.	M122
Connector Name	ECM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

Terminal No.	Color of Wire	Signal Name [Specification]
31	W	-

Terminal No.	Color of Wire	Signal Name [Specification]
99	V	- [With BOSE audio]
100	SB	- [With BOSE audio]

Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

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IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

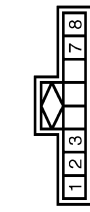
BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
14	W	
15	L	
17	BR	

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	A08FW



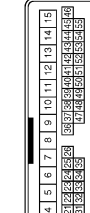
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	AUX SOUND SIGNAL RH (+)
2	W	AUX SOUND SIGNAL GND
3	R	AUX SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	TH12MPV-BH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	
6	W	

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MPV-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	
8	LG	

Connector No.	M374
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	--	

Connector No.	M373
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT5-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
110	--	GPS ANTENNA
111	SHIELD	SHIELD

Connector No.	M372
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKRA JACK



Terminal No.	Color of Wire	Signal Name [Specification]
108	--	SAETLLITE ANTENNA

Connector No.	M371
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SH-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
105	--	FM SUB
106	--	AM-FM MAIN
107	--	ANTENNA AMP. ON SIGNAL

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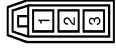
IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]


BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/IS-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M377
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU



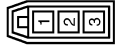
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/IS-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M383
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU




Terminal No.	Color of Wire	Signal Name [Specification]
3	-	SAETLLITE ANTENNA

Connector No.	M382
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M380
Connector Name	WIRE TO WIRE
Connector Type	GT16-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

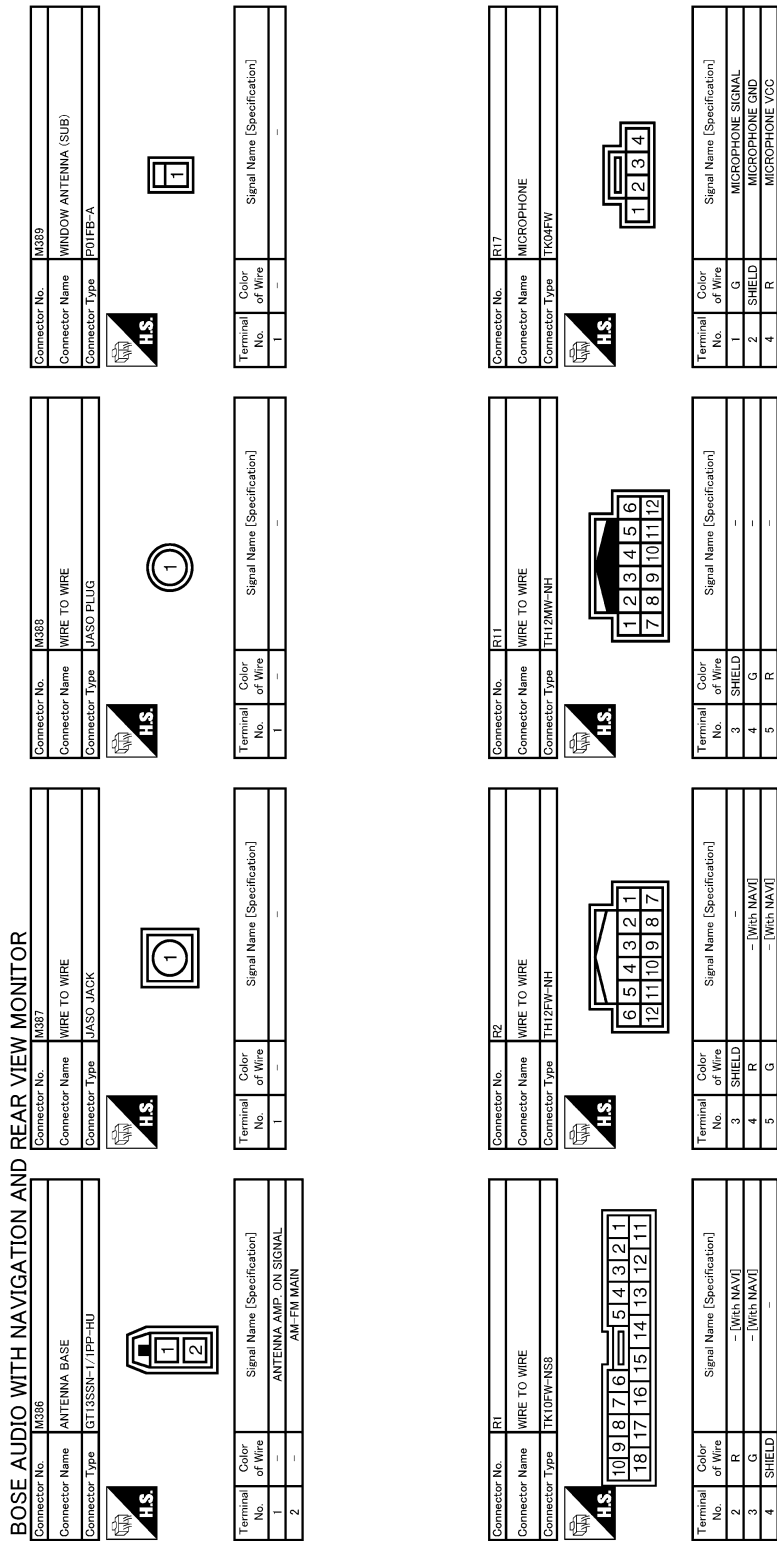
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IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]



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WITH AROUND VIEW MONITOR

WITH AROUND VIEW MONITOR : Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR -

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Click here to view the eWD.

NOTE:

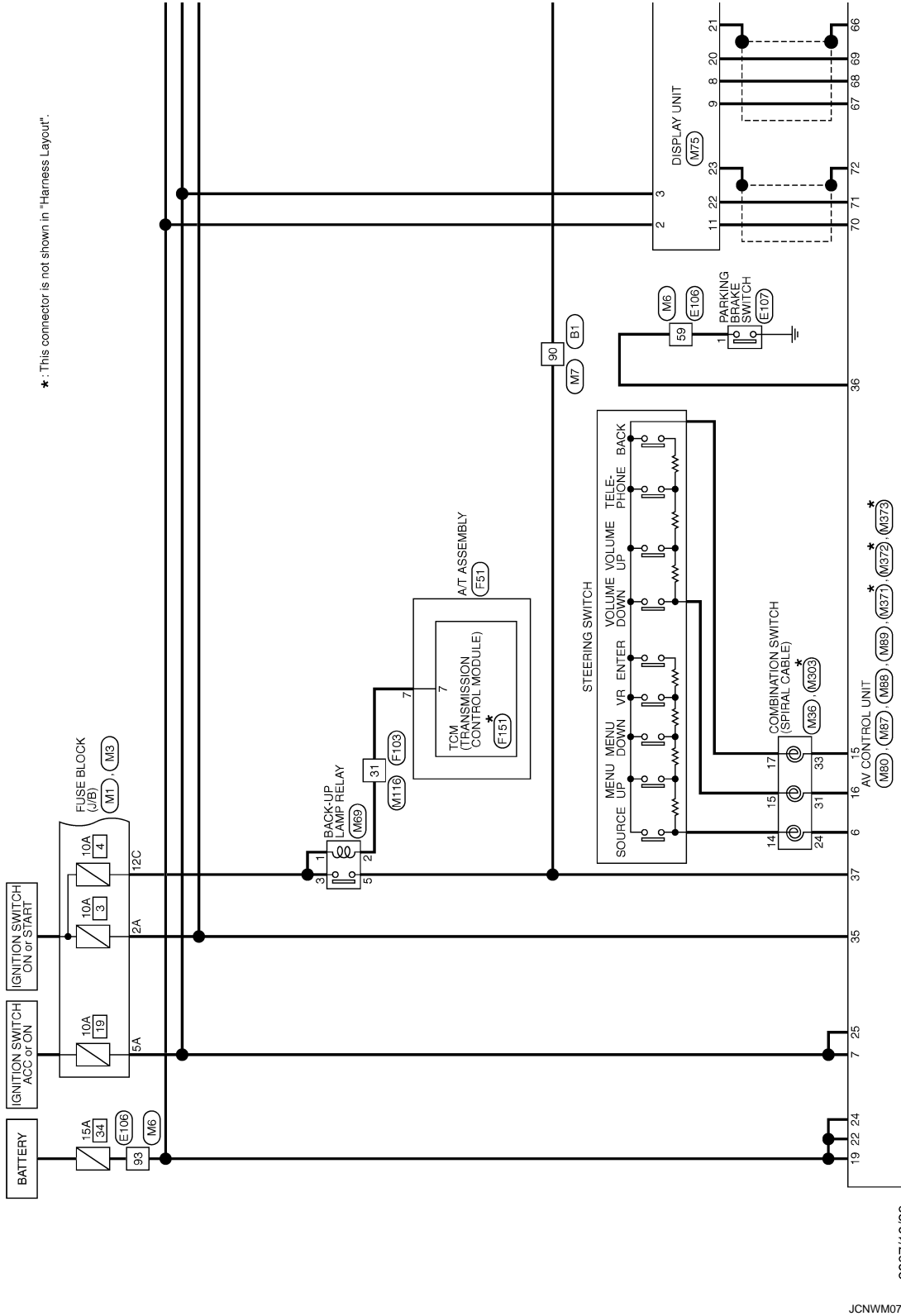
IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR



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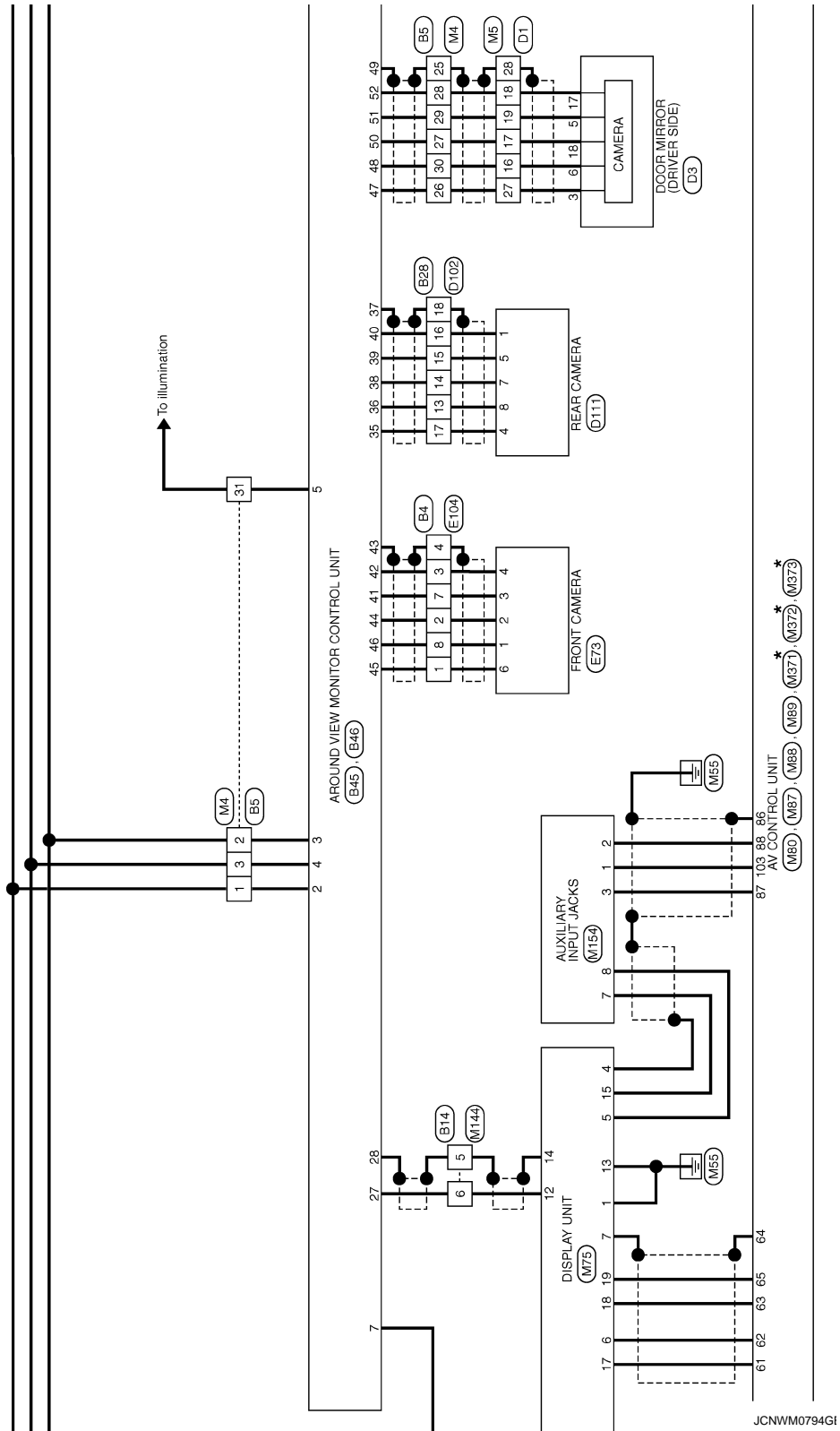
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IPOD ADAPTER

[BOSE AUDIO WITH NAVIGATION]

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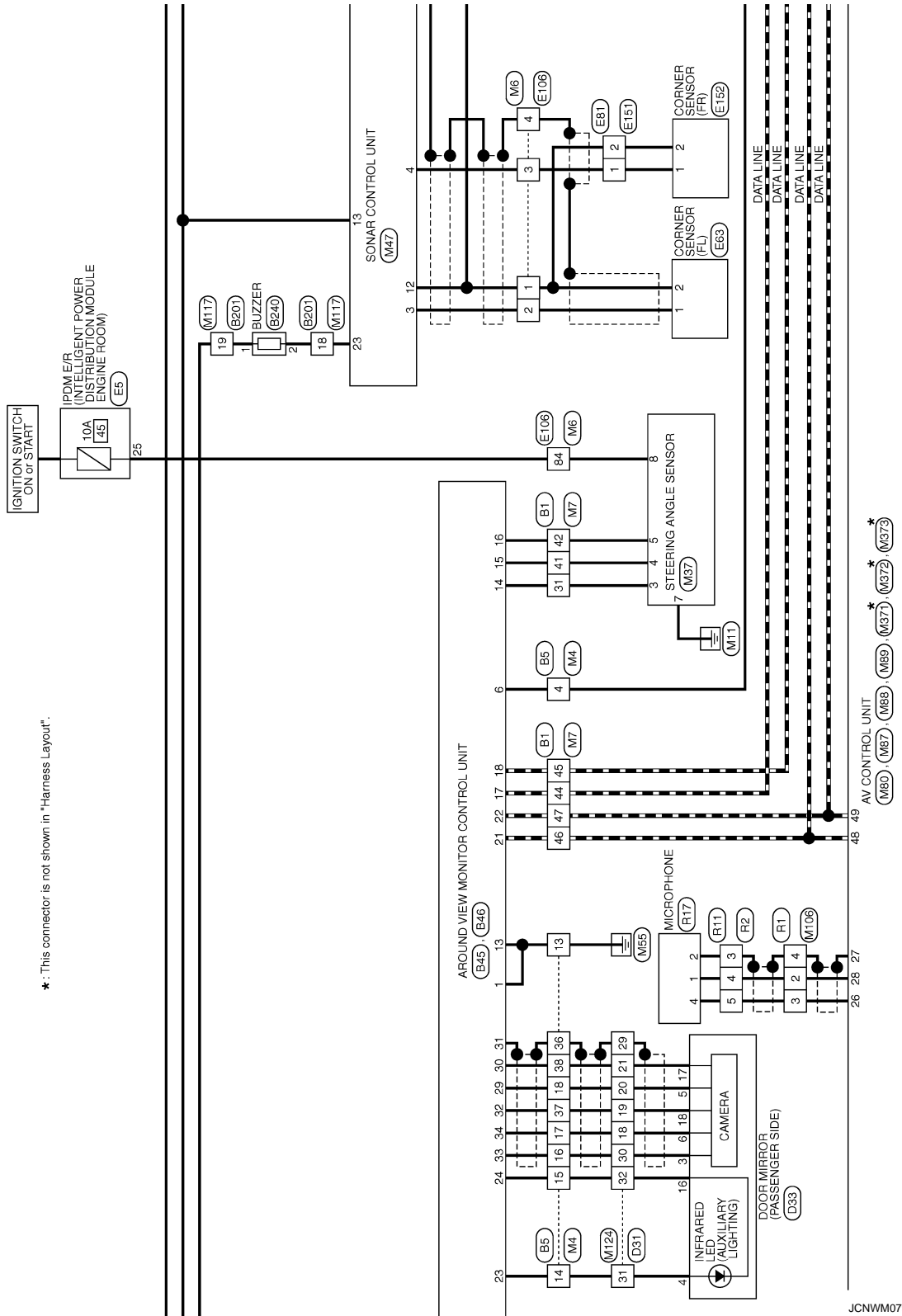
*: This connector is not shown in "Harness Layout".



IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]



*: This connector is not shown in "Harness Layout".

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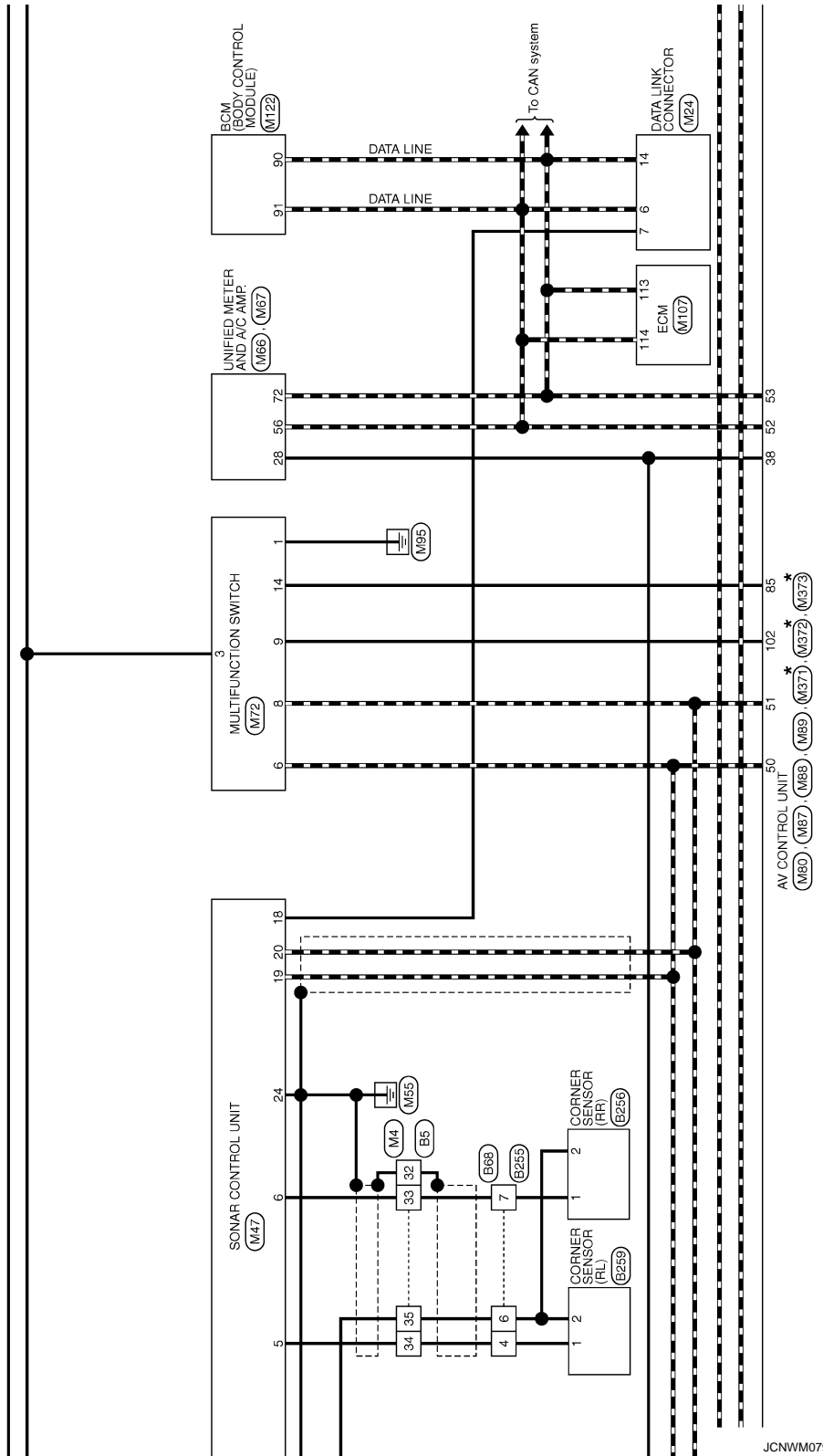
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IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

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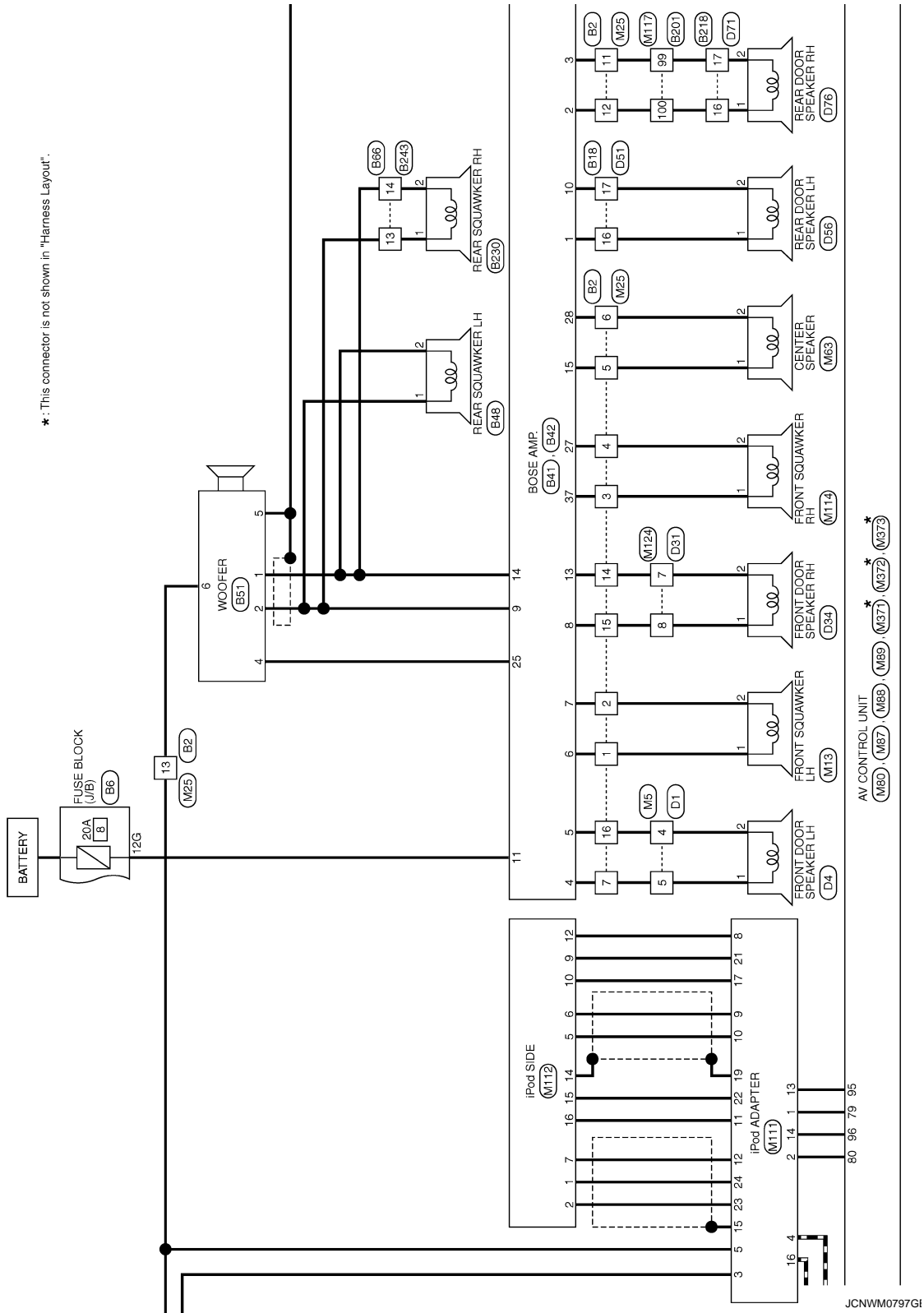


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IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]



*: This connector is not shown in "Harness Layout".

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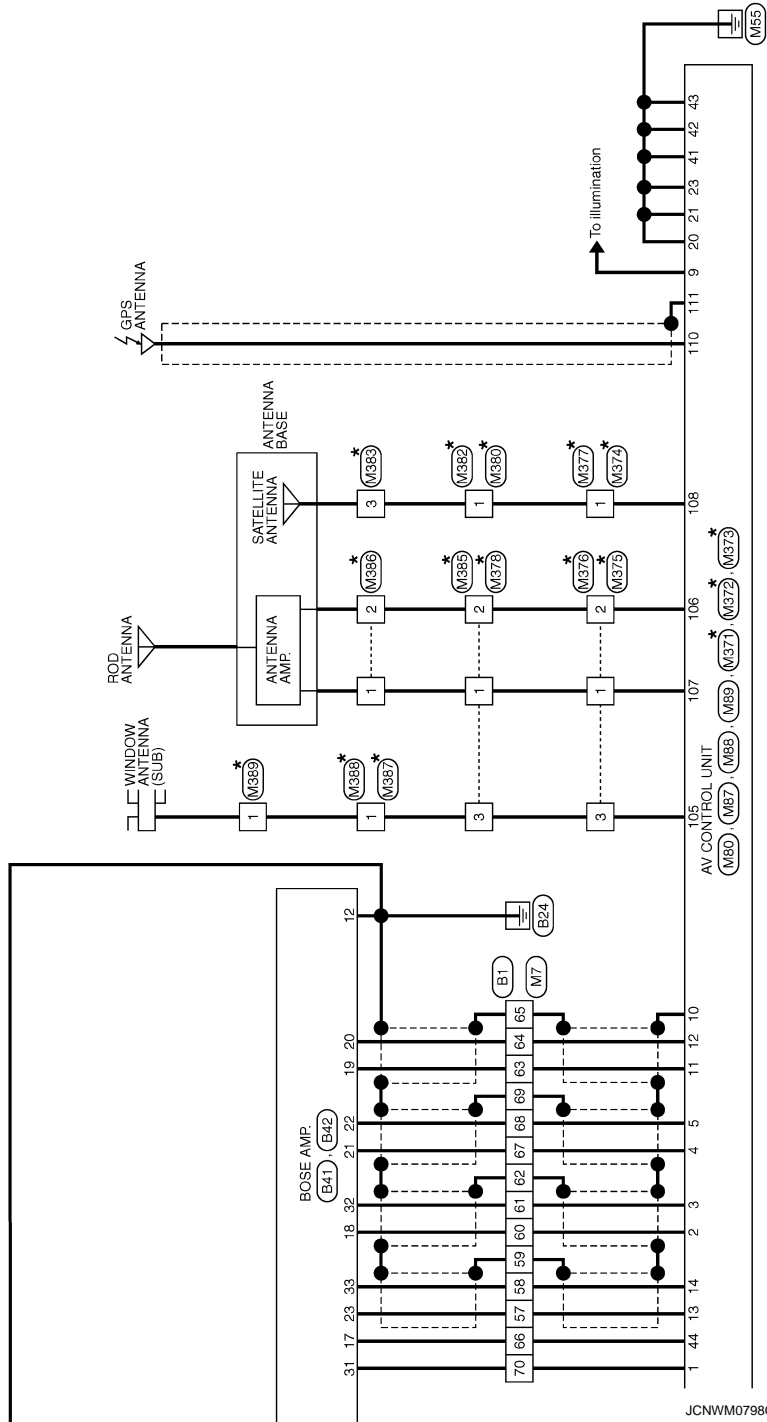
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IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

*: This connector is not shown in "Harness Layout".



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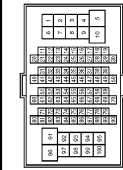
IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

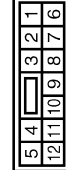
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
41	BR	-
42	R	-
44	G	- [With around view monitor]
45	Y	- [With around view monitor]
46	W	- [With around view monitor]
47	B	- [With around view monitor]
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-



Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	B	-
3	G	-
4	SHIELD	-
7	Y	-
8	R	-

61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
90	O	-



Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
8	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	TH4DMW-NH



Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
Color of Wire	Y	P	GR	SB	B	LG	W	W	R	B	SHIELD	B	SHIELD	G							
Signal Name [Specification]																					

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	P	-
3	GR	-
4	SB	-
13	B	-
14	LG	-
15	G	-
16	W	-
17	R	-
18	Y	-
25	SHIELD	-

Terminal No.	15	16
Color of Wire	LG	P
Signal Name [Specification]	-	-

Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



Terminal No.	12G
Color of Wire	GR
Signal Name [Specification]	-

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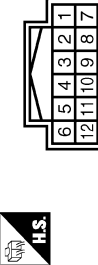
IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH27PW-RH



Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10PW-RSS



Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-RH

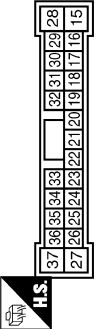


Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	
6	W	

Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	[With BOSE audio]
17	G	[With BOSE audio]

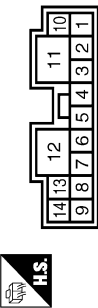
Terminal No.	Color of Wire	Signal Name [Specification]
13	BR	
14	R	[With around view monitor]
15	Y	[With around view monitor]
16	W	[With around view monitor]
17	L	[With around view monitor]
18	SHIELD	

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FRR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
31	W	AMP_ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	BR	SOUND SIGNAL FRONT SQUAWKER RH (+)

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA12FRR-SJA2



12	B	GND
13	Y	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)
14	R	SOUND SIGNAL WOOFER (-)

Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (+)
17	O	MODE CHANGE SIGNAL
18	P	SOUND SIGNAL FRONT LH (+)
19	R	SOUND SIGNAL FRONT RH (+)
20	G	SOUND SIGNAL FRONT LH (-)
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	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (+)

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (+)
3	V	SOUND SIGNAL REAR DOOR RH (-)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
6	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL WOOFER (+)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	B45
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH24FW-NH



42	44	46	48	50	52	54	56	58	60	62	64
41	43	45	47	49	51	53	55	57	59	61	63

Terminal No.	Color of Wire	Signal Name [Specification]
41	Y	FRONT CAMERA IMAGE SIGNAL
42	G	FRONT CAMERA IMAGE GND
43	SHIELD	SHIELD
44	B	FRONT CAMERA GND
45	W	FRONT CAMERA COMM
46	R	FRONT CAMERA POWER SUPPLY
47	L	SIDE CAMERA LH COMM
48	BR	SIDE CAMERA LH POWER SUPPLY
49	SHIELD	SHIELD
50	R	SIDE CAMERA LH GND
51	Y	SIDE CAMERA LH IMAGE SIGNAL

Connector No.	B48
Connector Name	REAR SPEAKER LH
Connector Type	TK02FBR



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Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

52	W	SIDE CAMERA LH IMAGE GND
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Connector No.	B46
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH24FW-NH



51	43	45	47	49	51	53	55	57	59	61	63
41	43	45	47	49	51	53	55	57	59	61	63

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	P	IGNITION
4	GR	ACC
5	G	ILLUMINATION
8	SB	VEHICLE SPEED (8-PULSE)
7	G	REVERSE
13	B	CONTROL SIGNAL
14	L	SENSOR SIGNAL 1
15	BR	SENSOR SIGNAL 2
16	R	SENSOR SIGNAL 3

Connector No.	B68
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



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]
13	L	-
14	W	-

17	G	AV COMM (H)
18	Y	AV COMM (L)
21	W	AV COMM (H)
22	B	AV COMM (L)
23	LG	LED (+)
24	G	LED (-)
27	W	CAMERA IMAGE SIGNAL
28	SHIELD	CAMERA IMAGE GND
29	Y	SIDE CAMERA RH IMAGE SIGNAL
30	G	SIDE CAMERA RH IMAGE GND
31	SHIELD	SHIELD
32	B	SIDE CAMERA RH GND
33	W	SIDE CAMERA RH COMM
34	R	SIDE CAMERA RH POWER SUPPLY
35	L	REAR CAMERA COMM
36	BR	REAR CAMERA POWER SUPPLY
37	SHIELD	SHIELD
38	R	REAR CAMERA GND
39	Y	REAR CAMERA IMAGE SIGNAL
40	W	REAR CAMERA IMAGE GND

Connector No.	B68
Connector Name	WIRE TO WIRE
Connector Type	RH08MB



1	2	3	4
5	6	7	8

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	- [With around view monitor]
6	B	- [With around view monitor]
7	W	- [With around view monitor]

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IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]



BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	B240
Connector Name	BUZZER
Connector Type	FK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	
2	GR	

Connector No.	B230
Connector Name	REAR SQUAWKER RH
Connector Type	TK02FBR


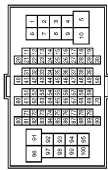
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-N5S



Terminal No.	Color of Wire	Signal Name [Specification]
16	L	
17	O	[With BOSE audio]

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
18	GR	
99	P	
100	L	[With BOSE audio]

Connector No.	B239
Connector Name	CORNER SENSOR (RL)
Connector Type	YDX02FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	
2	B	

Connector No.	B256
Connector Name	CORNER SENSOR (RR)
Connector Type	YDX02FB


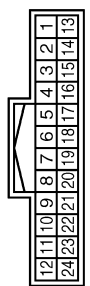
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	
2	B	

Connector No.	B255
Connector Name	WIRE TO WIRE
Connector Type	RH06FB

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	
6	B	
7	R	

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
13	L	
14	W	

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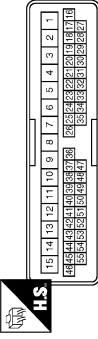
IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	
8	BR	
18	R	
19	Y	
20	B	-- [With around view monitor]
21	G	-- [With around view monitor]
29	SHIELD	
30	W	
31	LG	
32	BR	

Connector No.	D56
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS30ZFBR-CS



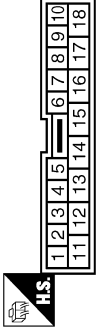
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	
2	G	

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)
Connector Type	NS30ZFBR-CS



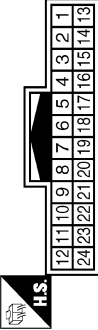
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	-- [With BOSE audio]
17	G	-- [With BOSE audio]

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH



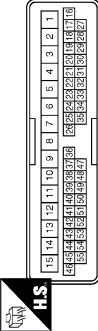
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	
5	Y	
6	R	
17	G	
18	W	

Connector No.	D34
Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)
Connector Type	NS30ZFBR-CS



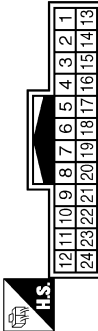
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	
2	R	

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	
5	L	
16	R	
17	W	
18	G	
19	Y	
27	B	
28	SHIELD	

Connector No.	D33
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	W	
4	LG	
5	B	
6	R	
16	BR	
17	G	
18	Y	

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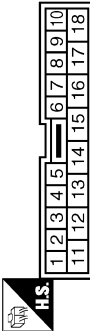
IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSB



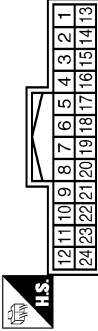
Terminal No.	Color of Wire	Signal Name [Specification]
16	L	-
17	Y	-

Connector No.	D75
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NSD0FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-RH



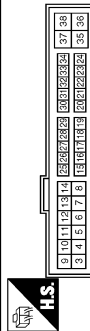
Terminal No.	Color of Wire	Signal Name [Specification]
13	R	-
14	L	- [With around view monitor]
15	Y	-
16	G	- [With around view monitor]
17	W	- [With around view monitor]
18	SHIELD	-

Connector No.	D111
Connector Name	REAR CAMERA
Connector Type	TH08BMF-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR CAMERA IMAGE GND
4	W	REAR CAMERA COMM
5	Y	REAR CAMERA IMAGE SIGNAL
7	L	REAR CAMERA GND
8	R	REAR CAMERA POWER SUPPLY

Connector No.	E5
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH20FW-CS1Z-M4-1V



Terminal No.	Color of Wire	Signal Name [Specification]
25	G	-

Connector No.	E63
Connector Name	CORNER SENSOR (FL)
Connector Type	YDX02FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	B	-

Connector No.	E73
Connector Name	FRONT CAMERA
Connector Type	RH06FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	FRONT CAMERA POWER SUPPLY
2	BR	FRONT CAMERA GND
3	Y	FRONT CAMERA IMAGE SIGNAL
4	L	FRONT CAMERA IMAGE GND
6	W	FRONT CAMERA COMM

Connector No.	E81
Connector Name	WIRE TO WIRE
Connector Type	RS02MB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	L	-


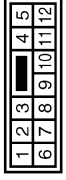









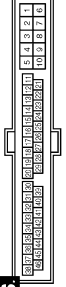



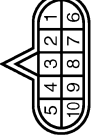
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IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No. E104	WIRE TO WIRE	NS12MW-CS	 	Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	WIRE TO WIRE	NS12MW-CS		1	W	
Connector Type	RS22FB			2	BR	
				3	L	
				4	SHIELD	
				7	Y	
				8	R	
Connector No. E106	WIRE TO WIRE	TH80FW-CS16-TM4	 	Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	WIRE TO WIRE	TH80FW-CS16-TM4		1	B	
Connector Type	TS22FB			2	W	
				3	R	
				4	GR	
				59	O	
				84	G	
				93	Y	
Connector No. E107	PARKING BRAKE SWITCH	TB01FW	 	Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	PARKING BRAKE SWITCH	TB01FW		1	O	
Connector Type	TS22FB					
Connector No. E151	WIRE TO WIRE	RS22FB	 	Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	WIRE TO WIRE	RS22FB		1	R	
Connector Type	RS22FB			2	B	
Connector No. E152	CORNER SENSOR (FR)	YD02FB	 	Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	CORNER SENSOR (FR)	YD02FB		1	R	
Connector Type	YD02FB			2	B	
Connector No. F103	WIRE TO WIRE	TK38FW-NS10	 	Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	WIRE TO WIRE	TK38FW-NS10		31	R	
Connector Type	TK38FW-NS10					
Connector No. F151	TCM (TRANSMISSION CONTROL MODULE)	SP10FBGY	 	Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	TCM (TRANSMISSION CONTROL MODULE)	SP10FBGY		7	O	REV LAMP RLY
Connector Type	SP10FBGY					
Connector No. F51	A/T ASSEMBLY	RK10FG-DGY	 	Terminal No.	Color of Wire	Signal Name [Specification]
Connector Name	A/T ASSEMBLY	RK10FG-DGY		7	R	
Connector Type	RK10FG-DGY					

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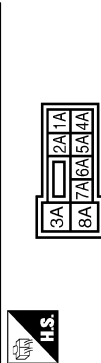
IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

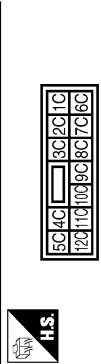
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-MZ



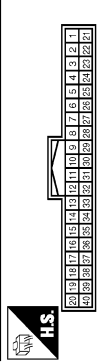
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	V	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS17FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

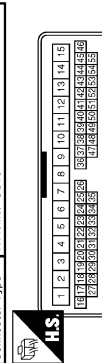
Connector No.	M4
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-RH



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	P	-
3	V	-
4	B	-
13	B	-
14	LG	-
15	G	-
16	W	-
17	R	-
18	Y	-
25	SHIELD	-

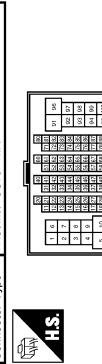
26	W	-
27	B	-
28	G	-
29	Y	-
30	R	-
31	R	-
32	SHIELD	-
33	R	-
34	W	-
35	B	-
36	SHIELD	-
37	B	-
38	G	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
4	P	-
5	L	-
16	R	-
17	B	-
18	G	-
19	Y	-
27	W	-
28	SHIELD	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	R	-
3	W	-
4	SHIELD	-
59	V	-
84	G	-
93	Y	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
41	BR	-
42	R	-
44	LG	-
45	V	-
46	G	- [With base audio or with NAV]
47	R	- [With base audio or with NAV]
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-

61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SB	-
67	V	-
68	SR	-
69	SHIELD	-
70	V	-
80	O	-

IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M13
Connector Name	FRONT SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD1DFW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	
7	V	
14	P	

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS1BMW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	
3	V	
4	LG	
5	Y	
8	G	
7	L	
11	V	
12	SB	
13	Y	
14	Y	

Connector No.	M38
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-IV



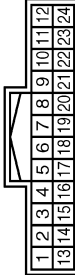
Terminal No.	Color of Wire	Signal Name [Specification]
24	P	
31	L	
33	B	

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN

Connector No.	M47
Connector Name	SONAR CONTROL UNIT
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	R	CORNER SENSOR FRONT LH
4	W	CORNER SENSOR FRONT RH
5	W	CORNER SENSOR REAR LH
6	R	CORNER SENSOR REAR RH
12	B	SENSOR GND
13	V	ACC
18	O	K LINE
19	G	AV COMM (H)
20	R	AV COMM (L)
23	GR	BUZZER
24	B	GND

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	
2	G	

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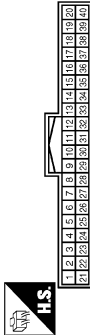
IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH407V-NH



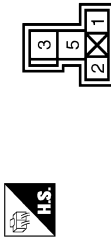
Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH432FV-NH



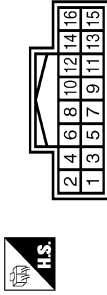
Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS292FL-M2



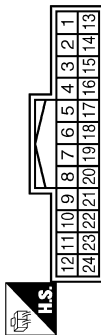
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	LG	-
3	LG	-
5	O	-

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	V	ACC
6	LG	AV COMM (H)
8	V	AV COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL

Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH242FV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	V	ACC
4	SHIELD	SHIELD
5	R	AUX IMAGE GND
6	W	RGB (G GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (VS) SIGNAL
11	BR	COMM (CONT->DISP)
12	W	CAMERA IMAGE SIGNAL

Terminal No.	Color of Wire	Signal Name [Specification]
13	B	GND
14	SHIELD	SHIELD
15	G	AUX IMAGE SIGNAL
17	B	RGB (R RED) SIGNAL
18	R	RGB (B BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-GS2



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	AMP_ON SIGNAL
2	P	SOUND SIGNAL FRONT LH (+)
3	L	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	SB	SOUND SIGNAL REAR LH (-)
6	P	STRG SW A
7	V	ACC
9	R	ILLUMINATION
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (+)
12	G	SOUND SIGNAL FRONT RH (-)

Terminal No.	Color of Wire	Signal Name [Specification]
13	BR	SOUND SIGNAL REAR RH (+)
14	Y	SOUND SIGNAL REAR RH (-)
15	B	STRG SW GND
16	L	STRG SW B
19	Y	BATTERY
20	B	GND

IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH42FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	Y	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
35	G	IGNITION
36	V	PARKING BRAKE
37	O	REVERSE

38	R	VEHICLE SPEED (8-PULSE)
41	B	CONTROL SIGNAL 1
42	B	CONTROL SIGNAL 2
43	GR	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
48	G	AV COMM (R)
49	R	AV COMM (L)
50	LG	AV COMM (H)
51	V	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
61	B	RGB (R: RED) SIGNAL
62	W	RGB (G: GREEN) SIGNAL
63	R	RGB (B: BLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (S) SIGNAL
68	R	HP
69	W	VP
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

72	SHIELD	SHIELD
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Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH22FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]													
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	101	102	103	104

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSB

Terminal No.	Color of Wire	Signal Name [Specification]							
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

Connector No.	M107
Connector Name	ECM
Connector Type	RH22FGY-R28-R-LH-Z

Terminal No.	Color of Wire	Signal Name [Specification]					
128	129	130	131	132	133	134	135
136	137	138	139	140	141	142	143
144	145	146	147	148	149	150	151
152	153	154	155	156	157	158	159
160	161	162	163	164	165	166	167
168	169	170	171	172	173	174	175

Terminal No.	Color of Wire	Signal Name [Specification]
79	R	IPod SOUND SIGNAL LH (+)
80	B	IPod SOUND SIGNAL RH (+)
85	SB	DISK EJECT SIGNAL
86	SHIELD	SHIELD
87	R	AUX SOUND SIGNAL LH (+)
88	W	AUX SOUND SIGNAL LH (-)
95	W	IPod SOUND SIGNAL LH (+)
96	G	IPod SOUND SIGNAL LH (-)
102	BR	SW GND
103	B	AUX SOUND SIGNAL RH (+)

Terminal No.	Color of Wire	Signal Name [Specification]
2	R	-- [With NAVI]
3	G	-- [With NAVI]
4	SHIELD	-- [With NAVI]

Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-L1
114	L	VEHCAN-H1

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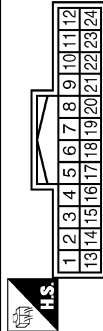
IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

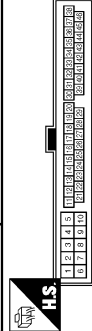
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M111
Connector Name	IPOD ADAPTER
Connector Type	TH24PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	I-Pod SOUND SIGNAL LH (+)
2	B	I-Pod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (I-Pod ADAPTER-I-Pod)
10	L	COMM (I-Pod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	R	I-Pod SOUND SIGNAL RH (+)
13	W	I-Pod SOUND SIGNAL LH (-)

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK36MW-NS10



14	G	I-Pod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	COND
19	SHIELD	SHIELD
21	W	I-Pod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	I-Pod SOUND SIGNAL GND
24	B	I-Pod SOUND SIGNAL LH (+)

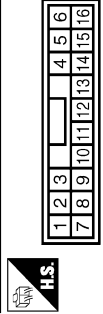
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	I-Pod SOUND SIGNAL LH (+)
2	W	COMM (I-Pod ADAPTER)
5	L	COMM (I-Pod ADAPTER-I-Pod)
6	P	COMM (I-Pod ADAPTER-RH (+))
7	R	I-Pod SOUND SIGNAL RH (+)
9	W	I-Pod CONNECTION RECOGNITION
10	BR	COND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



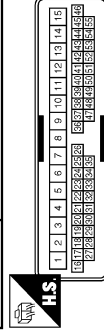
Terminal No.	Color of Wire	Signal Name [Specification]
18	GR	
19	P	CAN-L
99	V	CAN-H
100	SB	

Connector No.	M112
Connector Name	I-POD SIDE
Connector Type	IP18EGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	
8	LG	
18	R	
19	B	
20	Y	- [With around view monitor]
21	G	- [With around view monitor]
29	SHIELD	
30	W	
31	LG	
32	G	

Connector No.	M114
Connector Name	FRONT SQUAWKER RH
Connector Type	TK02FBR



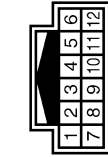
IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	
6	W	

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	A08PW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	AUX SOUND SIGNAL RH (+)
2	W	AUX SOUND SIGNAL GND
3	R	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	TK0BFGY



Terminal No.	Color of Wire	Signal Name [Specification]
14	W	
15	L	
17	BR	

Connector No.	M371
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SF-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
105	-	FM SUB
106	-	AM-FM MAIN
107	-	ANTENNA AMP. ON SIGNAL

Connector No.	M372
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKRA JACK



Terminal No.	Color of Wire	Signal Name [Specification]
108	-	SAATELLITE ANTENNA

Connector No.	M373
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT5-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
110	-	GPS ANTENNA
111	SHIELD	SHIELD

Connector No.	M374
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	
2	-	
3	-	

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IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M376	Connector No.	M377	Connector No.	M378	Connector No.	M380
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/IPP-HU	Connector Type	GT16C-1PP-HU	Connector Type	GT13SC-2/IS-HU	Connector Type	GT16-1S-HU

Terminal No.	1	2	3
Color of Wire	-	-	-
Signal Name [Specification]	-	-	-

Terminal No.	1	2
Color of Wire	-	-
Signal Name [Specification]	-	-

Terminal No.	1	2	3
Color of Wire	-	-	-
Signal Name [Specification]	-	-	-

Connector No.	M382	Connector No.	M383	Connector No.	M385	Connector No.	M386
Connector Name	WIRE TO WIRE	Connector Name	ANTENNA BASE	Connector Name	WIRE TO WIRE	Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU	Connector Type	GT16C-1PP-HU	Connector Type	GT13SCN-2/IPP-HU	Connector Type	GT13SSN-1/IPP-HU

Terminal No.	1	2
Color of Wire	-	-
Signal Name [Specification]	-	-

Terminal No.	3
Color of Wire	-
Signal Name [Specification]	SAETLLITE ANTENNA

Terminal No.	1	2	3
Color of Wire	-	-	-
Signal Name [Specification]	-	-	-

Terminal No.	1	2
Color of Wire	-	-
Signal Name [Specification]	ANTENNA AMP. ON SIGNAL	AM-FM MAIN

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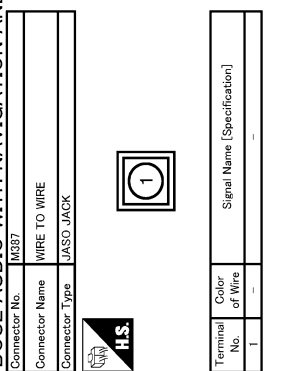
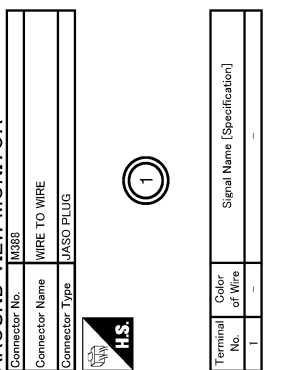
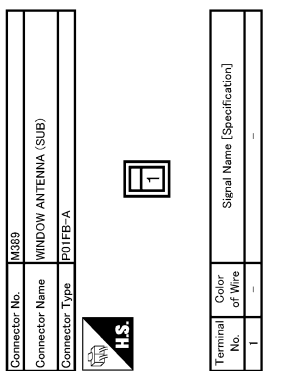
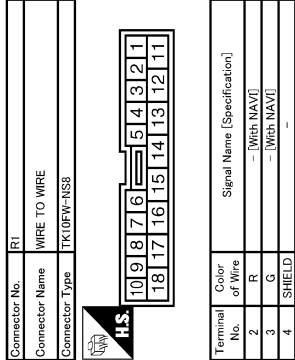
IPOD ADAPTER

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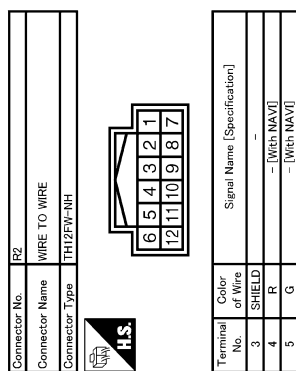
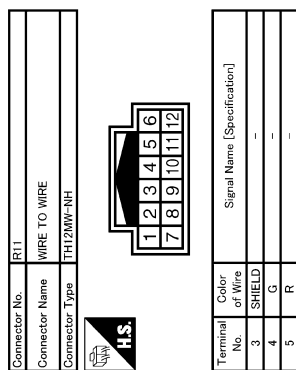
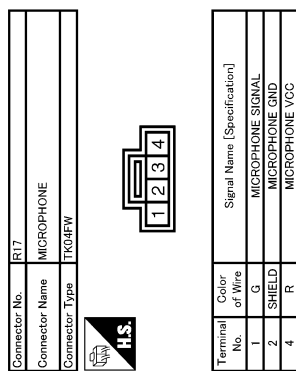
[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
M387	WIRE TO WIRE	JASO JACK	1	-	-
M388	WIRE TO WIRE	JASO PLUG	1	-	-
M389	WIRE TO WIRE	WINDOW ANTENNA (SUB)	1	-	-
RT	WIRE TO WIRE	TK04FW-NSS	2	R	[With NAVI]
			3	G	[With NAVI]
			4	SHIELD	-



Connector No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
R2	WIRE TO WIRE	TH12FW-NH	1	-	-
R11	WIRE TO WIRE	TH12MW-NH	1	-	-
R17	MICROPHONE	TK04FW	1	G	MICROPHONE SIGNAL
			2	SHIELD	MICROPHONE GND
			4	R	MICROPHONE VCC



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CAMERA CONTROL UNIT

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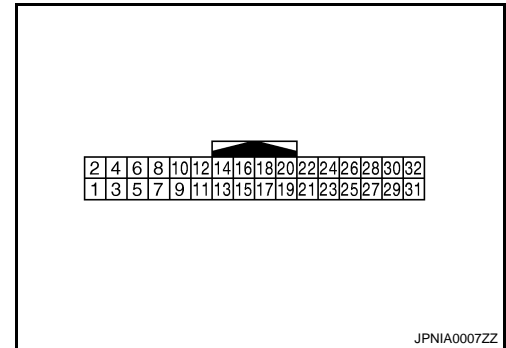
[BOSE AUDIO WITH NAVIGATION]

CAMERA CONTROL UNIT

Reference Value

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TERMINAL LAYOUT



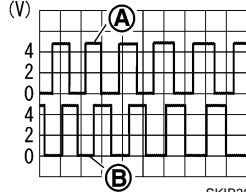
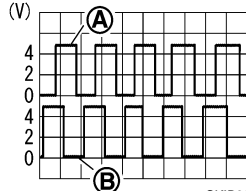
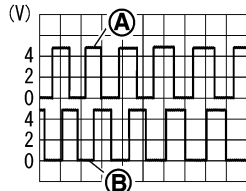
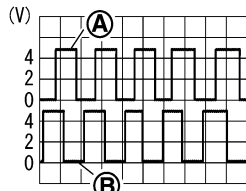
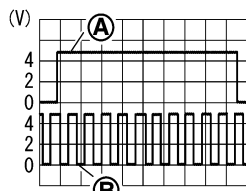
PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
5	—	Shield	—	—	—	—
6 (W)	Ground	Camera image signal	Input	Ignition switch ON	At rear view camera image display	<p>SKIB2251J</p>
7 (B)	Ground	Camera ground	—	Ignition switch ON	—	0 V
8 (R)	Ground	Camera power supply	Output	Ignition switch ON	R position	6.0 V
					Other than R position	0 V
11	—	Shield	—	—	—	—
12 (W)	Ground	Camera image signal	Output	Ignition switch ON	At rear view camera image display	<p>SKIB2251J</p>
14 (W)	Ground	Camera-connection recog- nition signal	—	Ignition switch ON	Connected to camera con- trol unit connector	0 V
					Not connected to camera control unit connector	5.0 V
17 (V)	—	AV communication signal (L)	Input/ Output	—	—	—
18 (LG)	—	AV communication signal (H)	Input/ Output	—	—	—
19 (R)	—	AV communication signal (L)	Input/ Output	—	—	—

CAMERA CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
20 (G)	—	AV communication signal (H)	Input/ Output	—	—	—
22 (O)	Ground	Reverse signal	Input	Ignition switch ON	R position	12.0 V
				Ignition switch ON	Other than R position	0 V
23 (L)	Ground	Sensor signal 1	Input	Ignition switch ON	Turn the steering to the right	 <p style="text-align: right; font-size: small;">SKIB3827E</p> <p style="text-align: right;">A: Sensor signal 1 B: Sensor signal 2</p>
					Turn the steering to the left	 <p style="text-align: right; font-size: small;">SKIB3828E</p> <p style="text-align: right;">A: Sensor signal 1 B: Sensor signal 2</p>
24 (BR)	Ground	Sensor signal 2	Input	Ignition switch ON	Turn the steering to the right	 <p style="text-align: right; font-size: small;">SKIB3827E</p> <p style="text-align: right;">A: Sensor signal 1 B: Sensor signal 2</p>
					Turn the steering to the left	 <p style="text-align: right; font-size: small;">SKIB3828E</p> <p style="text-align: right;">A: Sensor signal 1 B: Sensor signal 2</p>
25 (R)	Ground	Sensor signal 3	Input	Ignition switch ON	Turn the steering around the neutral position	 <p style="text-align: right; font-size: small;">SKIB3829E</p> <p style="text-align: right;">A: Sensor signal 3 B: Sensor signal 1</p>

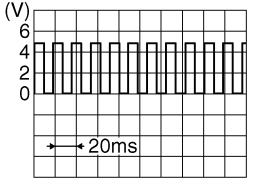
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CAMERA CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
26 (V)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is ap- prox. 40 km/h (25 MPH)	<p>NOTE: Maximum voltage may be 12 V due to specifications (connected units).</p>  <p style="text-align: right; font-size: small;">SKIA6649J</p>
30 (LG)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
31 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
32 (L)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage

Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR -

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Click here to view the eWD.

NOTE:

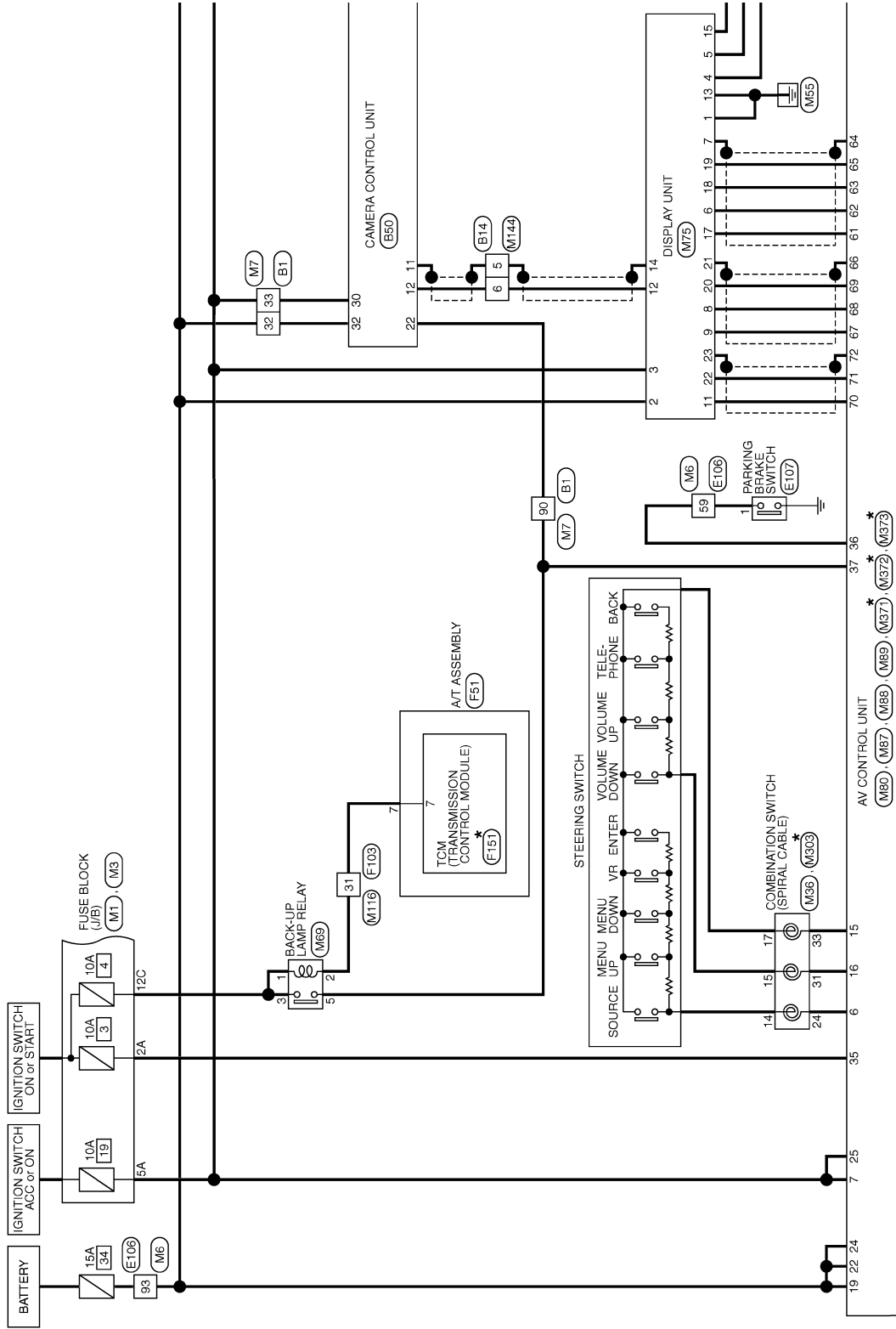
CAMERA CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR



2007/10/26

JCNWM077GI

*: This connector is not shown in "Harness Layout".

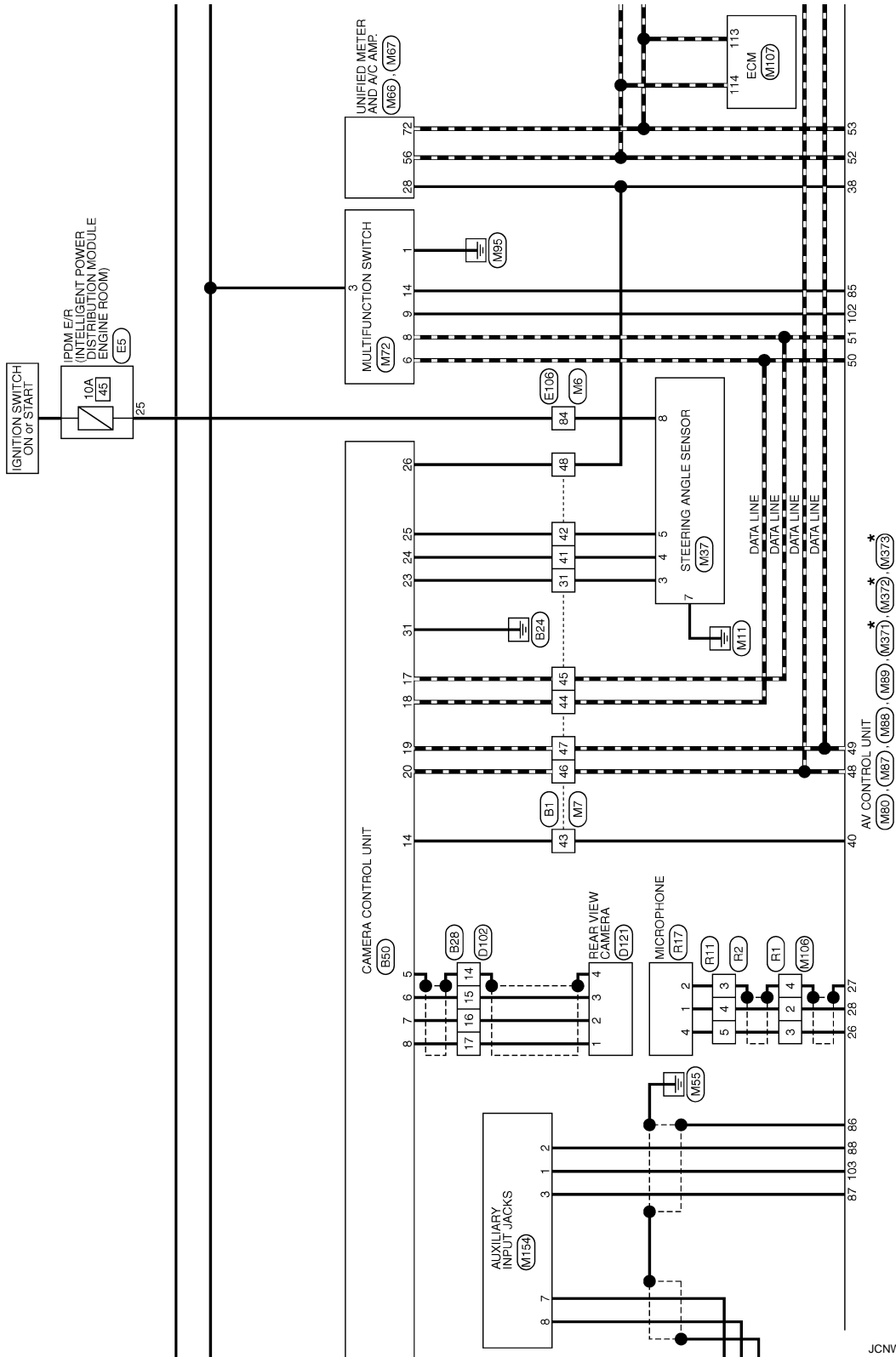
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CAMERA CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

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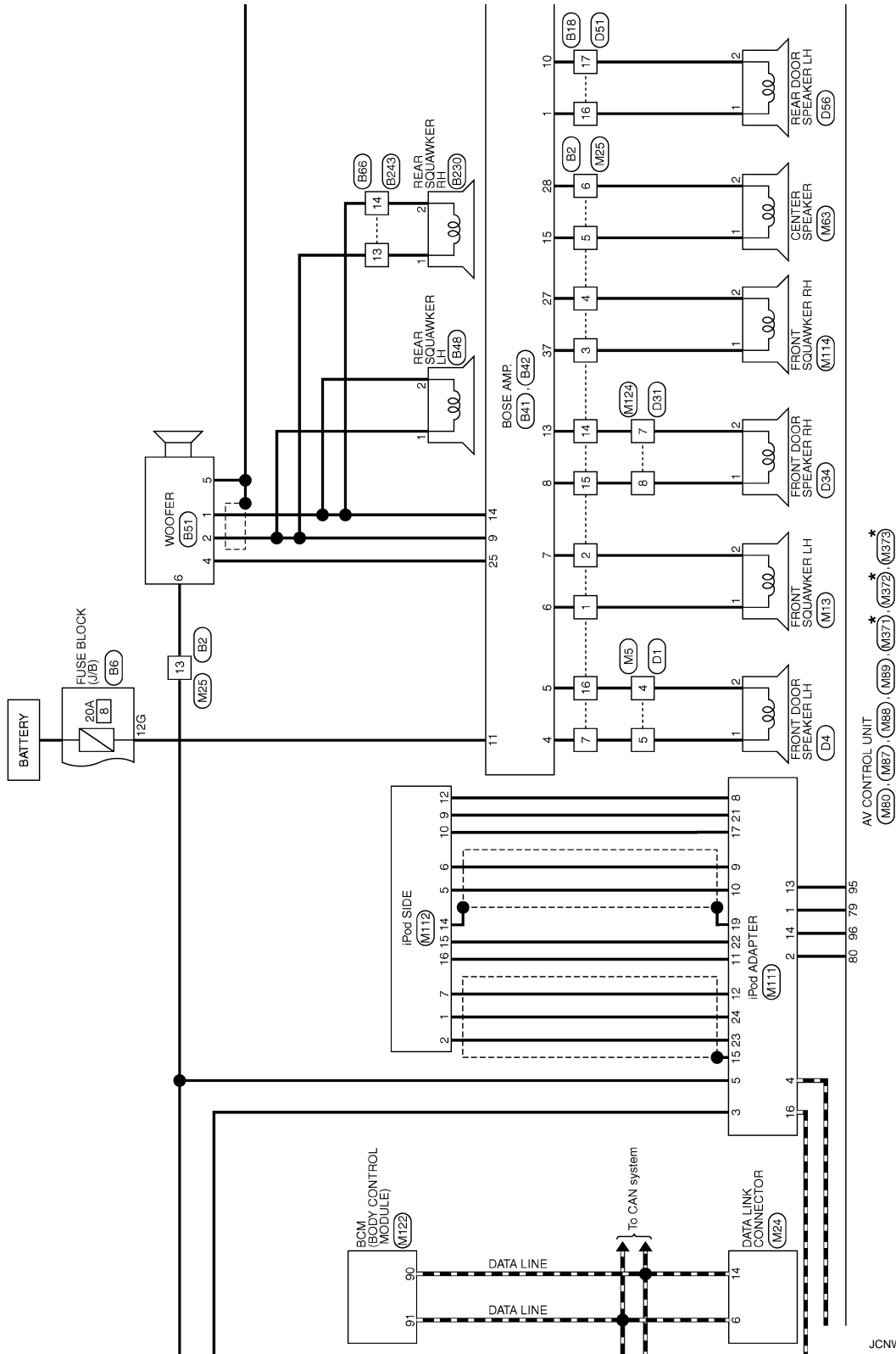
*: This connector is not shown in "Harness Layout".

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CAMERA CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >



*: This connector is not shown in "Harness Layout".

JCNWM0779GI

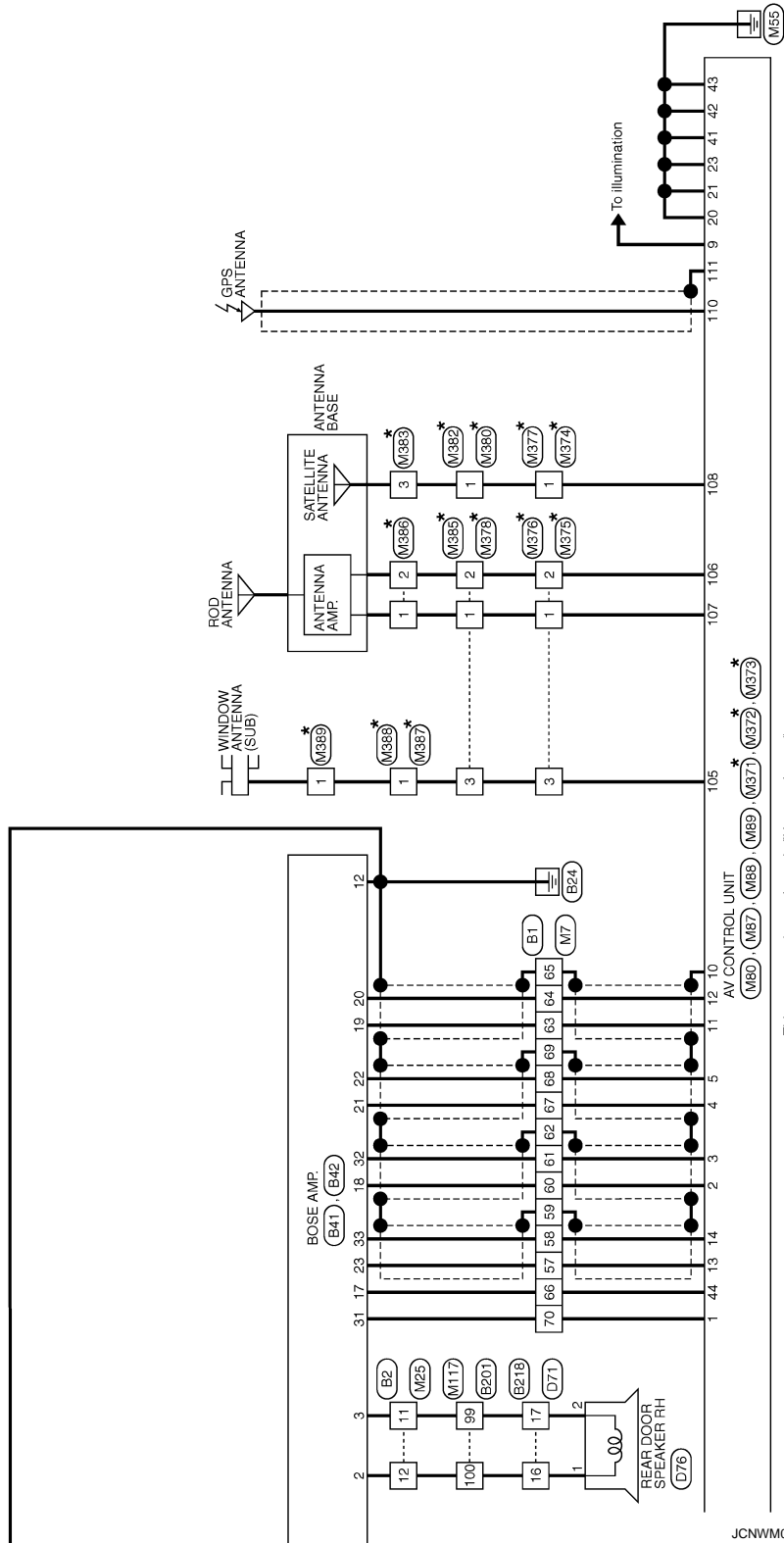
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CAMERA CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

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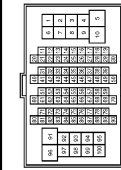
CAMERA CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

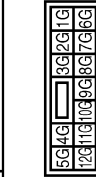
BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	L	-
33	LG	-
41	BR	-
42	R	-
43	W	-
44	LG	- [Without around view monitor]
45	V	- [Without around view monitor]
46	G	- [With base audio or with NAVI]
47	R	- [With base audio or with NAVI]
48	V	-

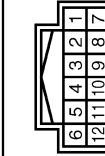
Connector No.	BB
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBF-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12G	GR	-

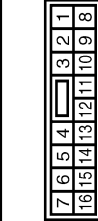
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
90	O	-

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



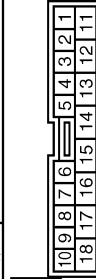
Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	-
6	W	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
8	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

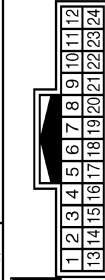
Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
18	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

15	LG	-
16	P	-

Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	W	- [Without around view monitor]
16	B	- [Without around view monitor]
17	R	- [Without around view monitor]

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CAMERA CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA1PFR-SG44



37	36	35	34	33	32	31	30	29	28
27	26	25	24	23	22	21	20	19	18

Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (+)
17	O	MODE CHANGE SIGNAL
18	P	SOUND SIGNAL FRONT LH (+)
19	R	SOUND SIGNAL FRONT RH (+)
20	G	SOUND SIGNAL FRONT LH (-)
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	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (-)

Connector No.	B48
Connector Name	REAR SQUAWKER LH
Connector Type	TK02FR



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31	W	AMP. ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	BR	SOUND SIGNAL FRONT SQUAWKER RH (+)



14	13	12	11	10
9	8	7	6	5

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (+)
3	V	SOUND SIGNAL REAR DOOR RH (-)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
6	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL WOOFER (+)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

Connector No.	B50
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH32FW-NH



2	4	6	10	12	14	16	18	20	22	24	26	28	30	32
1	3	5	7	9	11	13	15	17	19	21	23	25	27	29

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA1PFR-SU42



14	13	12	11	10
9	8	7	6	5

Terminal No.	Color of Wire	Signal Name [Specification]
22	O	REVERSE
23	L	SENSOR SIGNAL 1
24	BR	SENSOR SIGNAL 2
25	R	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	L	BATTERY

Connector No.	B51
Connector Name	WOOFER
Connector Type	RS0DFGY-PR



2	4	6
1	3	5

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP. ON SIGNAL
5	B	GND
6	W	BATTERY

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CAMERA CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	B66	Connector No.	B218	Connector No.	B201	Connector No.	B240
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	REAR SQUAWKER RH
Connector Type	TH24FW-NH	Connector Type	TK4DFW-NS8	Connector Type	TH4DFW-CS16-TM4	Connector Type	TK02FBR

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12
Color of Wire	L	W										
Signal Name [Specification]												

Terminal No.	13	14
Color of Wire	L	W
Signal Name [Specification]		

Terminal No.	99	100
Color of Wire	O	L
Signal Name [Specification]		

Terminal No.	16	17
Color of Wire	L	O
Signal Name [Specification]		

Terminal No.	1	2
Color of Wire	L	W
Signal Name [Specification]		

Terminal No.	1	2
Color of Wire	L	W
Signal Name [Specification]		

Connector No.	B243	Connector No.	D4	Connector No.	D31
Connector Name	WIRE TO WIRE	Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)	Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH	Connector Type	NS02FBR-CS	Connector Type	TH4DFW-CS15

Terminal No.	12	11	10	9	8	7	6	5	4	3	2	1
Color of Wire	L	W										
Signal Name [Specification]												

Terminal No.	4	5
Color of Wire	W	L
Signal Name [Specification]		

Terminal No.	4	5
Color of Wire	W	L
Signal Name [Specification]		

Terminal No.	1	2
Color of Wire	L	W
Signal Name [Specification]		

Terminal No.	7	8
Color of Wire	R	BR
Signal Name [Specification]		

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CAMERA CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]



BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS5


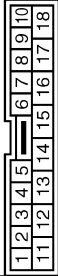
Terminal No.	Color of Wire	Signal Name [Specification]
16	L	-
17	Y	-

Connector No.	D56
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS02FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS5



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

Connector No.	D34
Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)
Connector Type	NS02FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	R	-

Connector No.	E5
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH2DFW-CS12-M4-1V


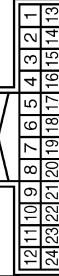
Terminal No.	Color of Wire	Signal Name [Specification]
25	G	-

Connector No.	D121
Connector Name	REAR VIEW CAMERA
Connector Type	TH04MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	CAMERA POWER SUPPLY
2	L	CAMERA GND
3	Y	CAMERA IMAGE SIGNAL
4	SHIELD	SHIELD

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
14	SHIELD	- [Without around view monitor]
15	Y	-
16	L	- [Without around view monitor]
17	G	- [Without around view monitor]

Connector No.	D76
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS02FBR-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-

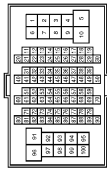

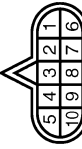
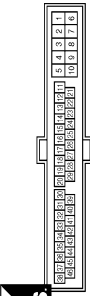



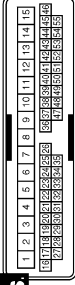
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CAMERA CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

<table border="1"> <tr><td>Connector No.</td><td>E106</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH80FW-CS16-TM4</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>59</td><td>O</td><td>-</td></tr> <tr><td>84</td><td>G</td><td>-</td></tr> <tr><td>93</td><td>Y</td><td>-</td></tr> </table>	Connector No.	E106	Connector Name	WIRE TO WIRE	Connector Type	TH80FW-CS16-TM4	Terminal No.	Color of Wire	Signal Name [Specification]	59	O	-	84	G	-	93	Y	-	<table border="1"> <tr><td>Connector No.</td><td>E107</td></tr> <tr><td>Connector Name</td><td>PARKING BRAKE SWITCH</td></tr> <tr><td>Connector Type</td><td>TB01FW</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>O</td><td>-</td></tr> </table>	Connector No.	E107	Connector Name	PARKING BRAKE SWITCH	Connector Type	TB01FW	Terminal No.	Color of Wire	Signal Name [Specification]	1	O	-	<table border="1"> <tr><td>Connector No.</td><td>F51</td></tr> <tr><td>Connector Name</td><td>A-7 ASSEMBLY</td></tr> <tr><td>Connector Type</td><td>RK10FG-DCY</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>7</td><td>R</td><td>-</td></tr> </table>	Connector No.	F51	Connector Name	A-7 ASSEMBLY	Connector Type	RK10FG-DCY	Terminal No.	Color of Wire	Signal Name [Specification]	7	R	-	<table border="1"> <tr><td>Connector No.</td><td>F103</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TK36FW-NS10</td></tr> </table>  <table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>31</td><td>R</td><td>-</td></tr> </table>	Connector No.	F103	Connector Name	WIRE TO WIRE	Connector Type	TK36FW-NS10	Terminal No.	Color of Wire	Signal Name [Specification]	31	R	-							
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Connector No.	F151																																																															
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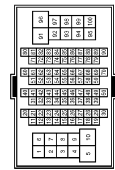
CAMERA CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

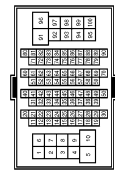
BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



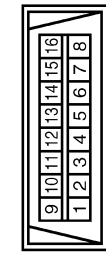
Terminal No.	Color of Wire	Signal Name [Specification]
59	V	
84	G	
93	Y	

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



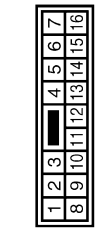
Terminal No.	Color of Wire	Signal Name [Specification]
31	L	
32	Y	
33	V	
41	BR	
42	R	
43	W	
44	LG	
45	V	
46	G	- [With base audio or with NAV]
47	R	- [With base audio or with NAV]
48	V	

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	
14	P	

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	
3	V	
4	LG	
5	Y	
6	G	
7	L	
11	V	
12	SB	
13	Y	
14	Y	

57	BR	
58	Y	
59	SHIELD	
60	P	
61	L	
62	SHIELD	
63	R	
64	G	
65	SHIELD	
66	SB	
67	V	
68	SB	
69	SHIELD	
70	V	
90	O	

Connector No.	M13
Connector Name	FRONT SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

15	LG	
16	P	

Connector No.	M96
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-TV



Terminal No.	Color of Wire	Signal Name [Specification]
24	P	
31	L	
33	B	

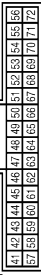
CAMERA CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH22FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH46FW-NH



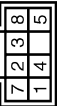
Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

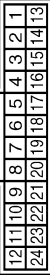
Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH86FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN

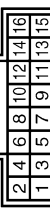
Terminal No.	Color of Wire	Signal Name [Specification]
13	B	GND
14	SHIELD	SHIELD
15	G	AUX IMAGE SIGNAL
17	B	RGB (R-RED) SIGNAL
18	R	RGB (B-BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	V	ACC
4	SHIELD	SHIELD
5	R	AUX IMAGE GND
6	W	RGB (G-GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (YS) SIGNAL
11	BR	COMM (CONT->DISP)
12	W	CAMERA IMAGE SIGNAL

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	V	ACC
3	V	AV COMM (H)
6	LG	AV COMM (L)
8	V	SW GND
9	BR	DISK EJECT SIGNAL
14	SB	

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

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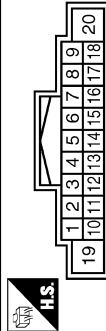
CAMERA CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

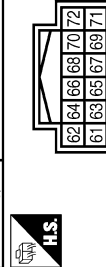
BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-GSZ



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	AMP. ON SIGNAL
2	P	SOUND SIGNAL FRONT LH (+)
3	L	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	SB	SOUND SIGNAL REAR LH (-)
6	P	STRG SW A
7	V	ACC
8	R	ILLUMINATION
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (+)
12	G	SOUND SIGNAL FRONT RH (-)

Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



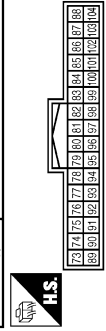
Terminal No.	Color of Wire	Signal Name [Specification]
61	B	RGB (R, RED) SIGNAL
62	W	RGB (G, GREEN) SIGNAL
63	R	RGB (B, BLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (YS) SIGNAL
68	R	HP
69	W	VP
70	BR	COMM. (CONT->DISP)
71	Y	COMM. (DISP->CONT)

Terminal No.	Color of Wire	Signal Name [Specification]
13	BR	SOUND SIGNAL REAR RH (+)
14	Y	SOUND SIGNAL REAR RH (-)
15	B	STRG SW GND
16	L	STRG SW B
18	Y	BATTERY
20	B	GND



Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	V	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
35	G	IGNITION
36	V	PARKING BRAKE
37	O	REVERSE

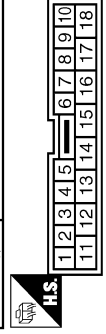
Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
79	R	iPod SOUND SIGNAL LH (+)
80	B	iPod SOUND SIGNAL RH (+)
85	SB	DISK EJECT SIGNAL
86	SHIELD	SHIELD
87	R	AUX SOUND SIGNAL LH (+)
88	W	AUX SOUND SIGNAL GND
95	W	AUX SOUND SIGNAL LH (-)
96	G	iPod SOUND SIGNAL RH (-)
102	BR	SW GND
103	B	AUX SOUND SIGNAL RH (+)

Terminal No.	Color of Wire	Signal Name [Specification]
38	R	VEHICLE SPEED (8-PUL/SE)
40	W	CONNECTION RECOGNITION
41	B	CONTROL SIGNAL 1
42	B	CONTROL SIGNAL 2
43	GR	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
46	G	AV COMM (H)
49	R	AV COMM (L)
50	LG	AV COMM (H)
51	V	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSS



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	--[With NAVI]
3	G	--[With NAVI]
4	SHIELD	--[With NAVI]

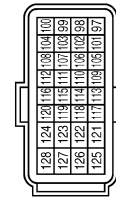
CAMERA CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

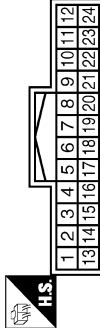
BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-RZ8-R-LH-Z



Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-L1
114	L	VEHCAN-H1

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH42FVH-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	AGC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod->iPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	R	iPod SOUND SIGNAL RH (+)
13	W	iPod SOUND SIGNAL LH (-)

Connector No.	M114
Connector Name	FRONT SQUAWKER RH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

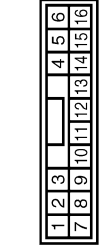
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	W	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	R	iPod SOUND SIGNAL RH (+)
8	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

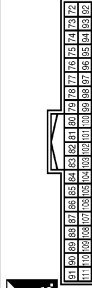


Terminal No.	Color of Wire	Signal Name [Specification]
99	V	- [With BOSE audio]
100	SB	- [With BOSE audio]

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP18FGY



Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

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CAMERA CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
14	W	
15	L	
17	BR	

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	A08FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	AUX SOUND SIGNAL RH (+)
2	W	AUX SOUND SIGNAL GND
3	R	AUX SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	TH12MPV-BH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	
6	W	

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MPV-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	
8	LG	

Connector No.	M374
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1		

Connector No.	M373
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT5-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
110		GPS ANTENNA
111	SHIELD	SHIELD

Connector No.	M372
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKRA JACK



Terminal No.	Color of Wire	Signal Name [Specification]
108		SAETLLITE ANTENNA

Connector No.	M371
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SH-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
105		FM SUB
106		AM-FM MAIN
107		ANTENNA AMP. ON SIGNAL

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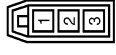
CAMERA CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]



BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/IS-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M377
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU


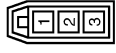
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/IS-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M383
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
3	-	SAETLLITE ANTENNA

Connector No.	M382
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU

Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M380
Connector Name	WIRE TO WIRE
Connector Type	GT16-1S-HU

Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

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CAMERA CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND REAR VIEW MONITOR

Connector No.	M336	Connector No.	M388	Connector No.	M387	Connector No.	M389
Connector Name	ANTENNA BASE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WINDOW ANTENNA (SUB)
Connector Type	GT13SSN-1/1PP-HU	Connector Type	JASO PLUG	Connector Type	JASO JACK	Connector Type	F01FB-A

Terminal No.	1	Terminal No.	1	Terminal No.	1	Terminal No.	1
Color of Wire	-	Color of Wire	-	Color of Wire	-	Color of Wire	-
Signal Name [Specification]	ANTENNA AMP_ON SIGNAL AM-FM MAIN	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-

Terminal No.	2	Terminal No.	3	Terminal No.	4	Terminal No.	1
Color of Wire	R	Color of Wire	SHIELD	Color of Wire	SHIELD	Color of Wire	G
Signal Name [Specification]	- [With NAVI]	Signal Name [Specification]	- [With NAVI]	Signal Name [Specification]	- [With NAVI]	Signal Name [Specification]	MICROPHONE SIGNAL
							MICROPHONE GND
							MICROPHONE VCC

Connector No.	R1	Connector No.	R11	Connector No.	R2	Connector No.	R17
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	MICROPHONE
Connector Type	TK10FW-NS3	Connector Type	TH12MW-NH	Connector Type	TH12FW-NH	Connector Type	TK04FW

Terminal No.	1	Terminal No.	1	Terminal No.	1	Terminal No.	1
Color of Wire	-	Color of Wire	-	Color of Wire	-	Color of Wire	-
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-

Terminal No.	2	Terminal No.	3	Terminal No.	4	Terminal No.	1
Color of Wire	R	Color of Wire	SHIELD	Color of Wire	SHIELD	Color of Wire	G
Signal Name [Specification]	- [With NAVI]	Signal Name [Specification]	- [With NAVI]	Signal Name [Specification]	- [With NAVI]	Signal Name [Specification]	MICROPHONE SIGNAL
							MICROPHONE GND
							MICROPHONE VCC

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AROUND VIEW MONITOR CONTROL UNIT

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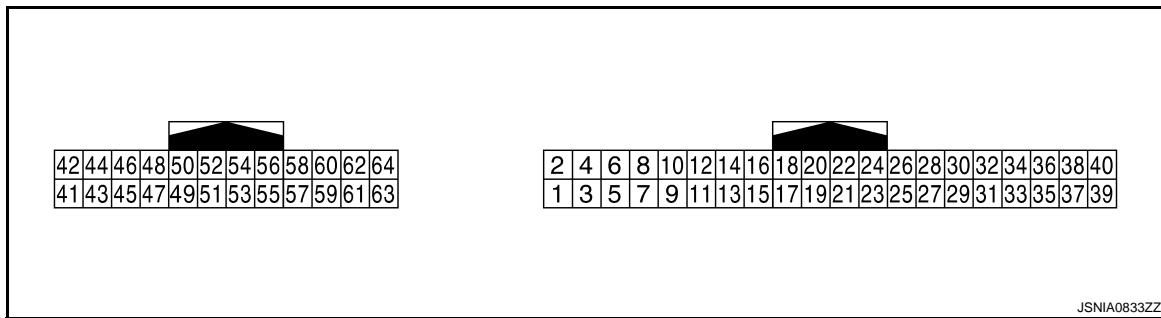
[BOSE AUDIO WITH NAVIGATION]

AROUND VIEW MONITOR CONTROL UNIT

Reference Value

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TERMINAL LAYOUT



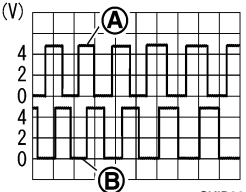
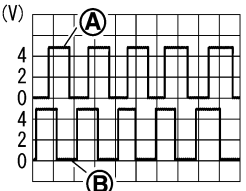
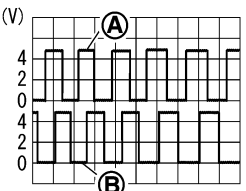
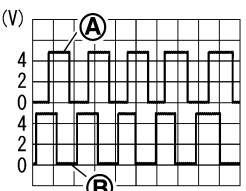
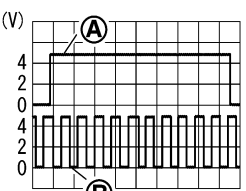
PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
2 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
3 (P)	Ground	Ignition signal	Input	Ignition switch ON	—	Battery voltage
4 (GR)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
5 (O)	Ground	Illumination signal	Input	Ignition switch OFF	Lighting switch is OFF.	0 V
					Lighting switch is ON.	12.0 V
6 (SB)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is ap- prox. 40 km/h (25 MPH)	
7 (G)	Ground	Reverse signal	Input	Ignition switch ON	R position	12.0 V
					Other than R position	0 V
13 (B)	Ground	Control signal	—	Ignition switch ON	—	0 V

AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

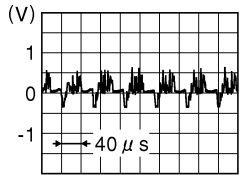
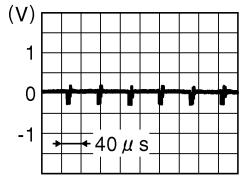
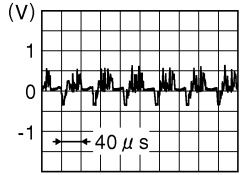
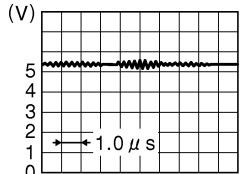
< ECU DIAGNOSIS >

Terminal (Wire color)		Description		Condition	Reference value (Approx.)
+	-	Signal name	Input/ Output		
14 (L)	Ground	Sensor signal 1	Input	Ignition switch ON	 <p style="text-align: right;">SKIB3827E</p> <p>A: Sensor signal 1 B: Sensor signal 2</p>
				Turn the steering to the left	 <p style="text-align: right;">SKIB3828E</p> <p>A: Sensor signal 1 B: Sensor signal 2</p>
15 (BR)	Ground	Sensor signal 2	Input	Ignition switch ON	 <p style="text-align: right;">SKIB3827E</p> <p>A: Sensor signal 1 B: Sensor signal 2</p>
				Turn the steering to the left	 <p style="text-align: right;">SKIB3828E</p> <p>A: Sensor signal 1 B: Sensor signal 2</p>
16 (R)	Ground	Sensor signal 3	Input	Ignition switch ON	 <p style="text-align: right;">SKIB3829E</p> <p>A: Sensor signal 3 B: Sensor signal 1</p>
17 (G)	—	AV communication signal (H)	Input/ Output	—	—
18 (Y)	—	AV communication signal (L)	Input/ Output	—	—

AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
21 (W)	—	AV communication signal (H)	Input/ Output	—	—	—
22 (B)	—	AV communication signal (L)	Input/ Output	—	—	—
23 (LG)	24 (G)	Auxiliary infrared LED power supply	Output	Ignition switch ON	"CAMERA" switch is ON or shift position is "R".	5.5 V
27 (W)	Ground	Camera image signal	Output	Ignition switch ON	At camera image display	 <p style="text-align: right; font-size: small;">JSNIA0834GB</p>
					Other than camera image display	 <p style="text-align: right; font-size: small;">JSNIA0835GB</p>
28	—	Camera image ground	—	—	—	—
29 (Y)	30 (G)	Side camera passenger side image signal	Input	Input	"CAMERA" switch is ON or shift position is "R".	 <p style="text-align: right; font-size: small;">JSNIA0834GB</p>
31	—	Shield	—	—	—	—
32 (B)	Ground	Side camera passenger side ground	—	Ignition switch ON	—	0 V
33 (W)	Ground	Side camera passenger side communication signal	Input/ Output	Ignition switch ON	"CAMERA" switch is ON or shift position is "R".	 <p style="text-align: right; font-size: small;">JSNIA0836GB</p>
34 (R)	Ground	Side camera passenger side power supply	Output	Ignition switch ON	"CAMERA" switch is ON or shift position is "R".	6.0 V

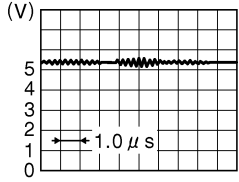
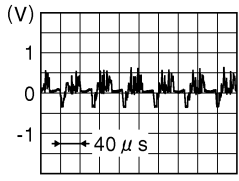
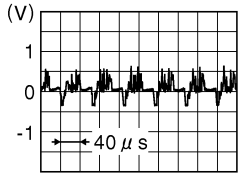
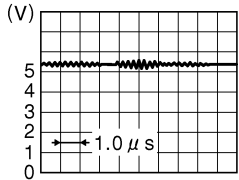
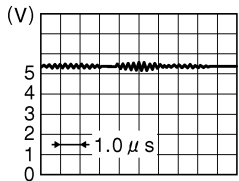
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AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

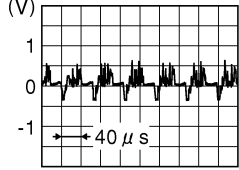
< ECU DIAGNOSIS >

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
35 (L)	Ground	Rear camera communication signal	Input/ Output	Ignition switch ON	"CAMERA" switch is ON or shift position is "R".	 <p style="text-align: right; font-size: small;">JSNIA0836GB</p>
36 (BR)	Ground	Rear camera power supply	Output	Ignition switch ON	"CAMERA" switch is ON or shift position is "R".	6.0 V
37	—	Shield	—	—	—	—
38 (R)	Ground	Rear camera ground	—	Ignition switch ON	—	0 V
39 (Y)	40 (W)	Rear camera image signal	Input	Ignition switch ON	"CAMERA" switch is ON or shift position is "R".	 <p style="text-align: right; font-size: small;">JSNIA0834GB</p>
41 (Y)	42 (G)	Front camera image signal	Input	Ignition switch ON	"CAMERA" switch is ON or shift position is "R".	 <p style="text-align: right; font-size: small;">JSNIA0834GB</p>
43	—	Shield	—	—	—	—
44 (B)	Ground	Front camera ground	—	Ignition switch ON	—	0 V
45 (W)	Ground	Front camera communication signal	Input/ Output	Ignition switch ON	"CAMERA" switch is ON or shift position is "R".	 <p style="text-align: right; font-size: small;">JSNIA0836GB</p>
46 (R)	Ground	Front camera power supply	Output	Ignition switch ON	"CAMERA" switch is ON or shift position is "R".	6.0 V
47 (L)	Ground	Side camera driver side communication signal	Input/ Output	Ignition switch ON	"CAMERA" switch is ON or shift position is "R".	 <p style="text-align: right; font-size: small;">JSNIA0836GB</p>

AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
48 (BR)	Ground	Side camera driver side power supply	Output	Ignition switch ON	"CAMERA" switch is ON or shift position is "R".	6.0 V
49	—	Shield	—	—	—	—
50 (R)	Ground	Side camera driver side ground	—	Ignition switch ON	—	0 V
51 (Y)	52 (W)	Side camera driver side image signal	Input	Ignition switch ON	"CAMERA" switch is ON or shift position is "R".	

JSNIA0834GB

Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

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Click here to view the eWD.

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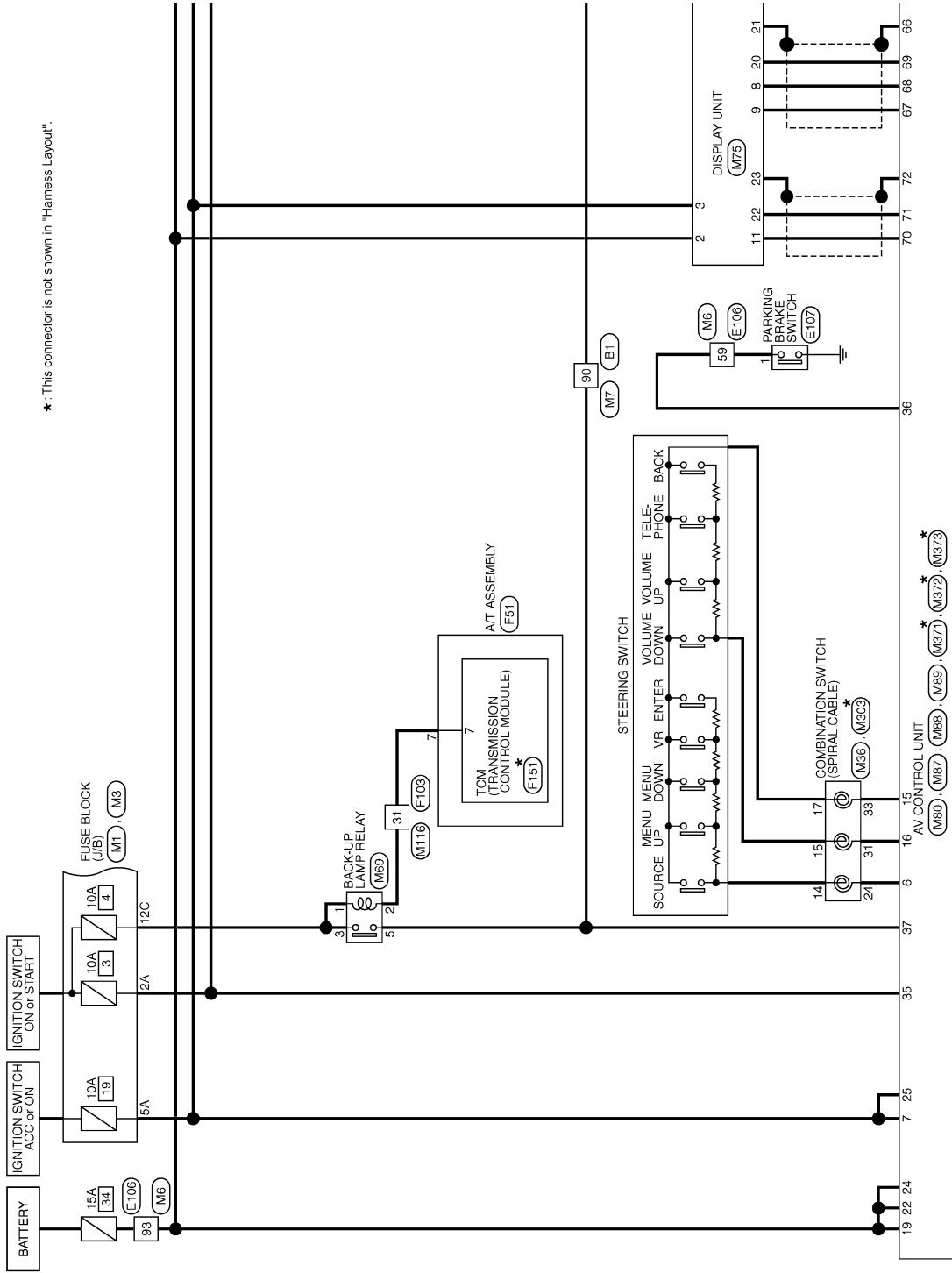
AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR



*: This connector is not shown in "Harness Layout".

2007/10/26

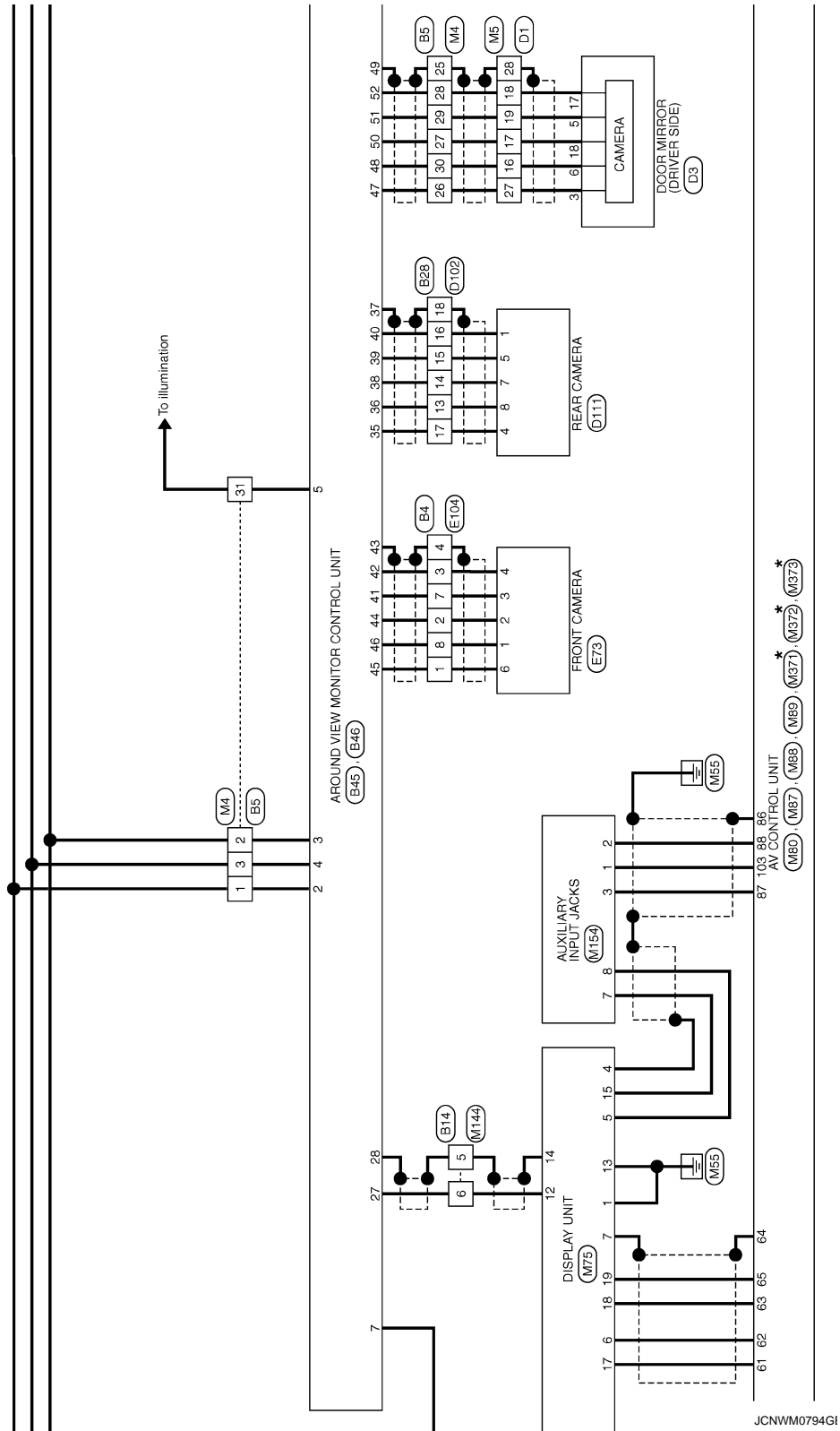
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AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

*: This connector is not shown in "Harness Layout".



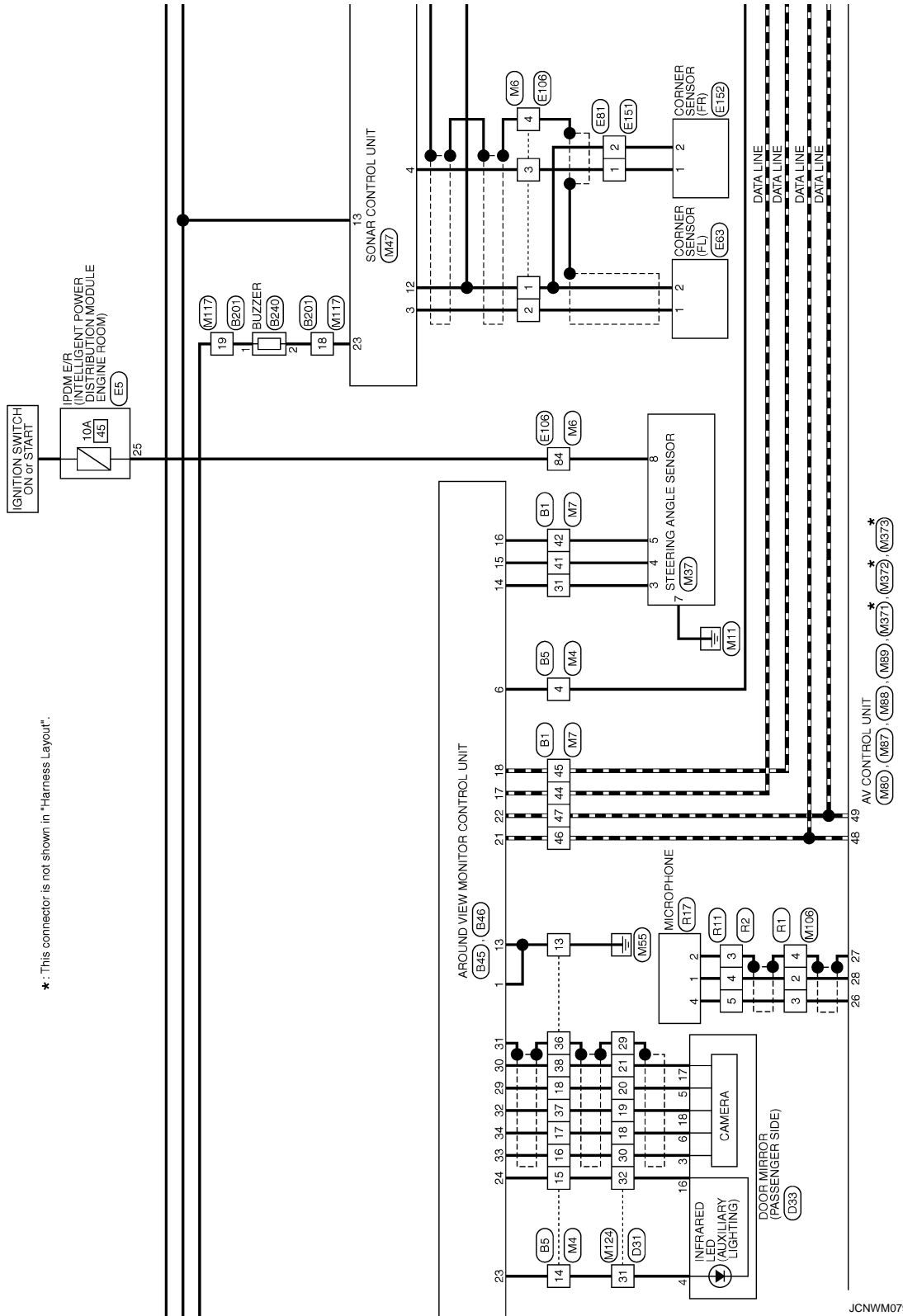
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AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

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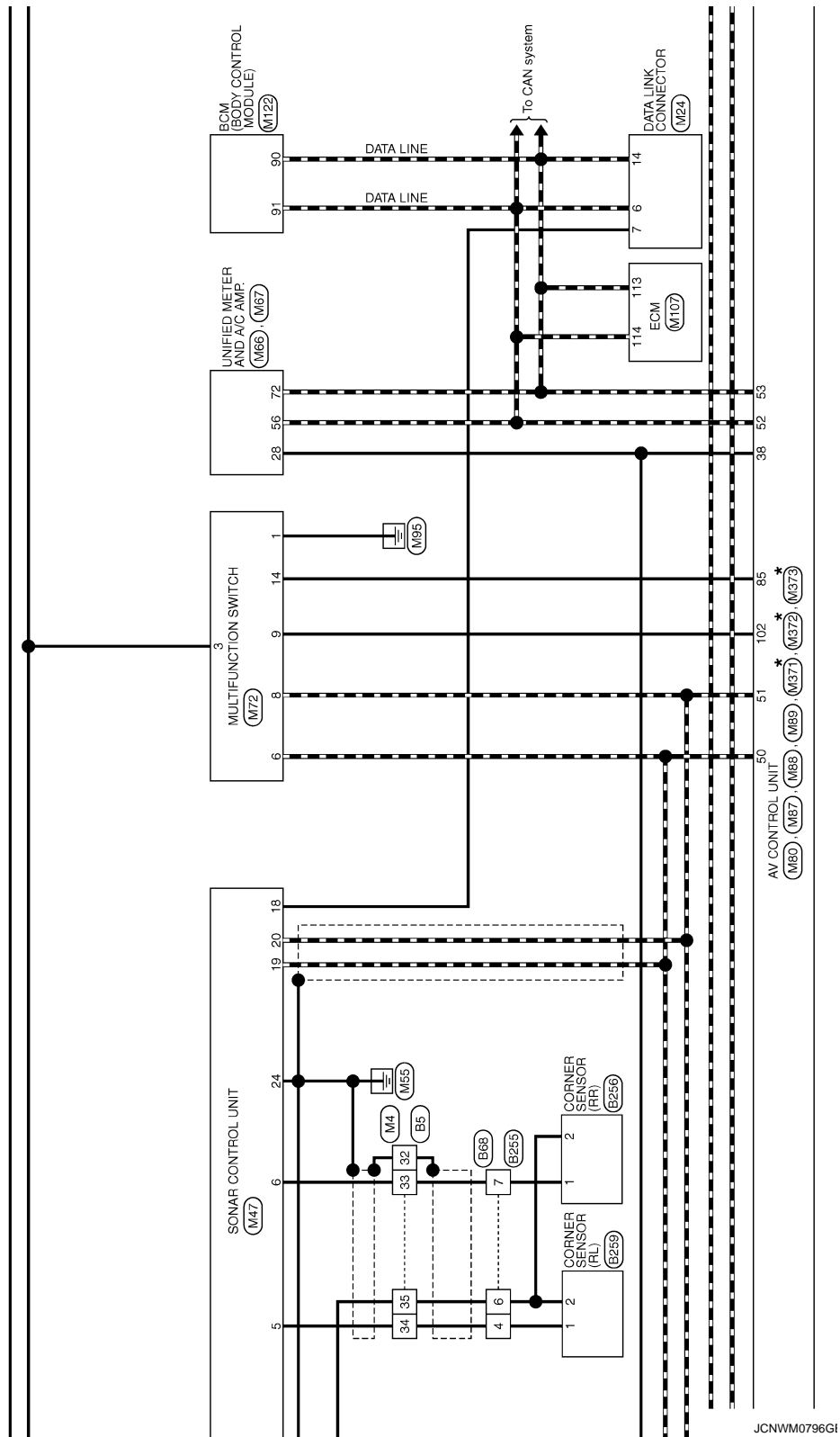


AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

*: This connector is not shown in "Harness Layout".



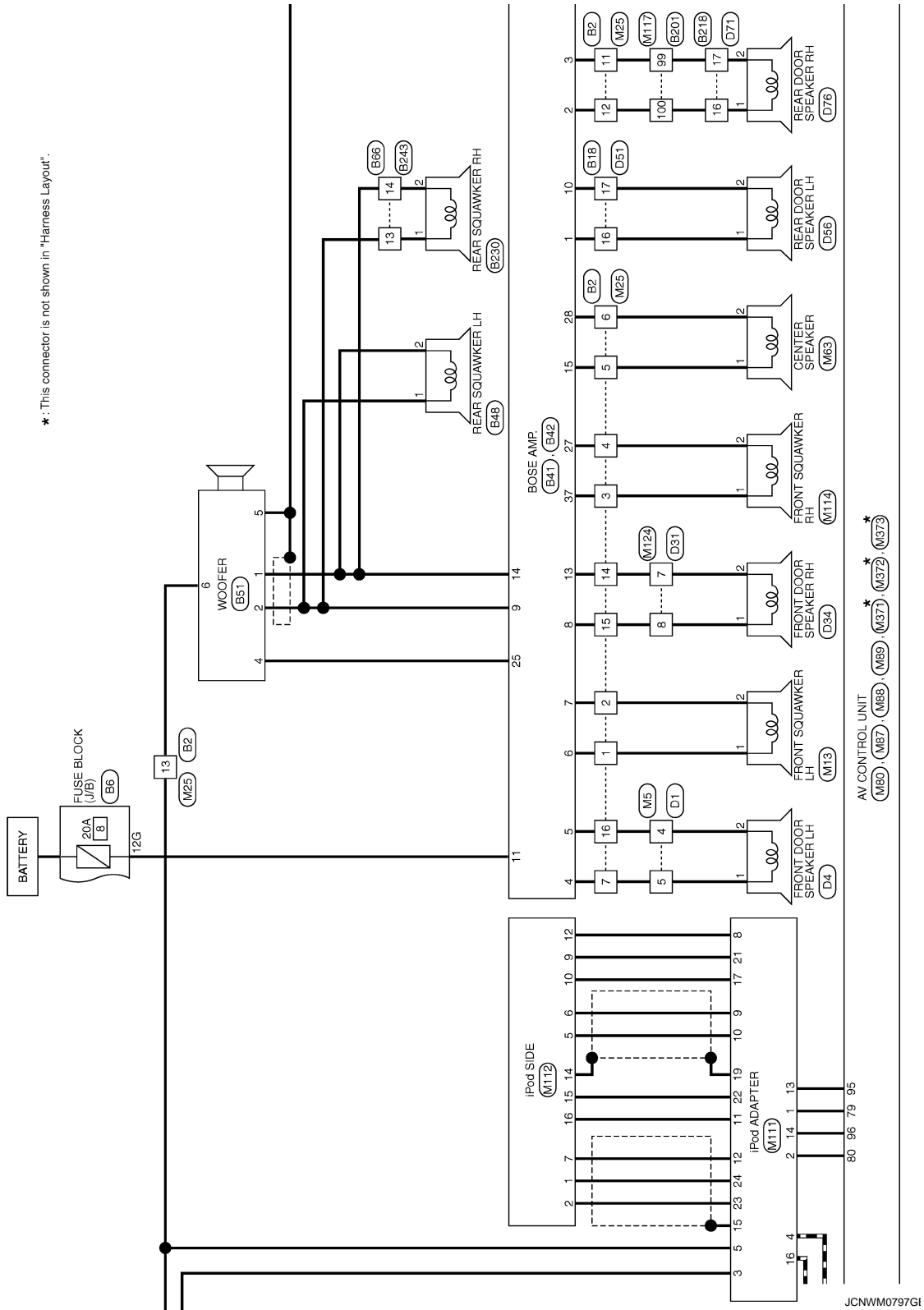
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AV

AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >



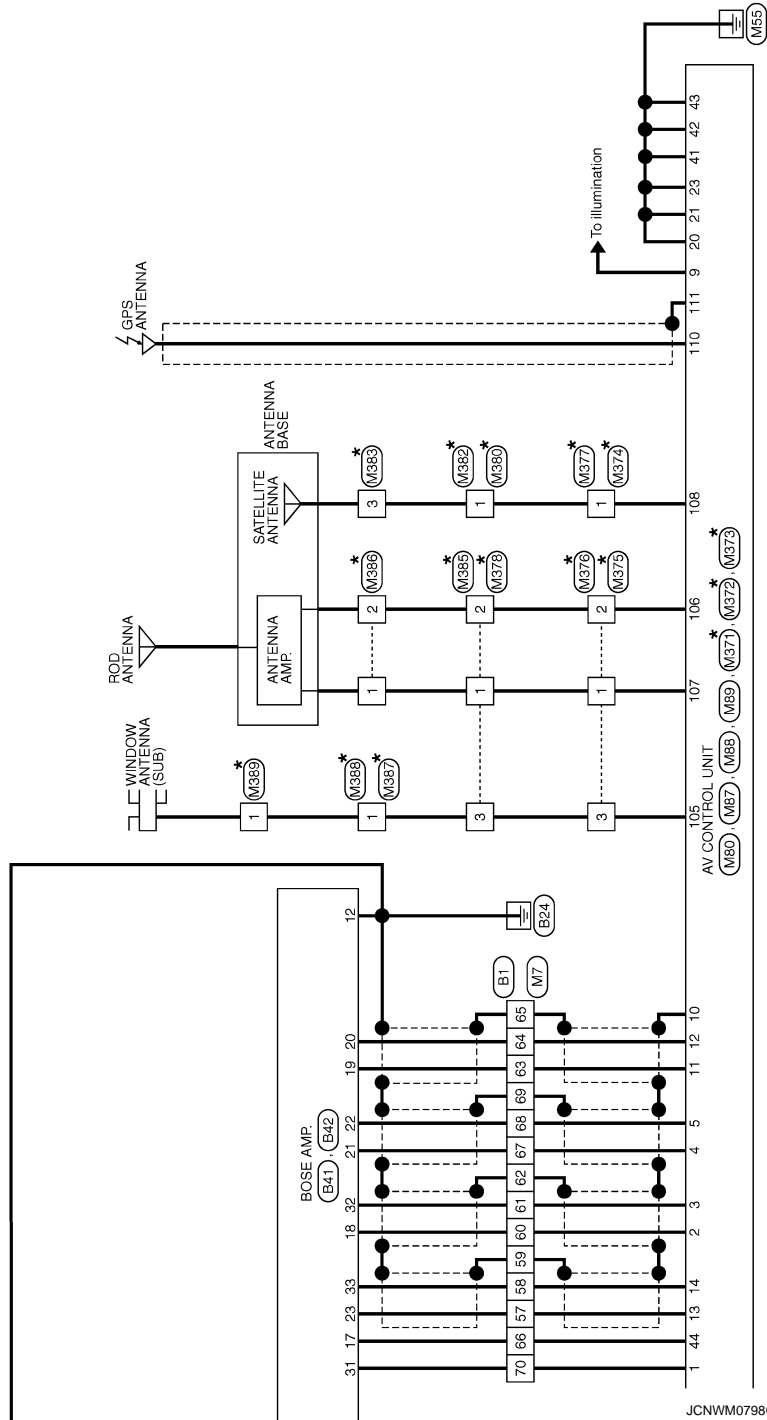
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AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

*: This connector is not shown in "Harness Layout".



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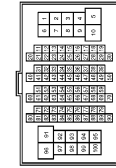
AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

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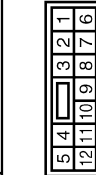
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
41	BR	-
42	R	-
44	G	- [With around view monitor]
45	Y	- [With around view monitor]
46	W	- [With around view monitor]
47	B	- [With around view monitor]
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-

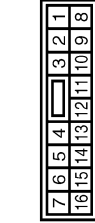
Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	B	-
3	G	-
4	SHIELD	-
7	Y	-
8	R	-

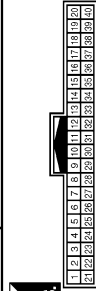
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
90	O	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
6	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	P	-
3	GR	-
4	SB	-
13	B	-
14	LG	-
15	G	-
16	W	-
17	R	-
18	Y	-
25	SHIELD	-

15	LG	-
16	P	-

Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



Terminal No.	12G	Color of Wire	GR	Signal Name [Specification]	-
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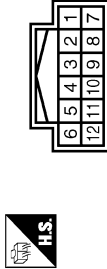
AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

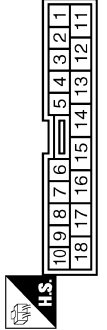
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BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

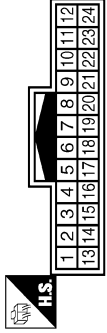
Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12PW-RH



Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10PW-RSS



Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-RH

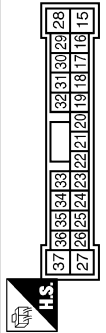


Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	
6	W	

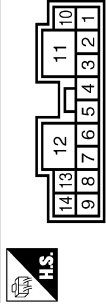
Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	[With BOSE audio]
17	G	[With BOSE audio]

Terminal No.	Color of Wire	Signal Name [Specification]
13	BR	
14	R	[With around view monitor]
15	Y	[With around view monitor]
16	W	[With around view monitor]
17	L	[With around view monitor]
18	SHIELD	

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA10FBR-SGA4



Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA12FBR-SJA2



12	B	GND
13	Y	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)
14	R	SOUND SIGNAL WOODFER (-)

Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (+)
17	O	MODE CHANGE SIGNAL
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	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (-)

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (+)
3	V	SOUND SIGNAL REAR DOOR RH (-)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
6	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL WOODFER (+)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

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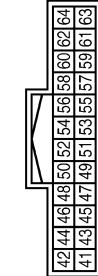
AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	B45
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH24PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
41	Y	FRONT CAMERA IMAGE SIGNAL
42	G	FRONT CAMERA IMAGE GND
43	SHIELD	SHIELD
44	B	FRONT CAMERA GND
45	W	FRONT CAMERA COMM
46	R	FRONT CAMERA POWER SUPPLY
47	L	SIDE CAMERA LH COMM
48	BR	SIDE CAMERA LH POWER SUPPLY
49	SHIELD	SHIELD
50	R	SIDE CAMERA LH GND
51	Y	SIDE CAMERA LH IMAGE SIGNAL

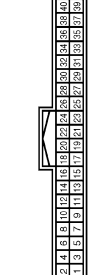
Connector No.	B48
Connector Name	REAR SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

52	W	SIDE CAMERA LH IMAGE GND
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Connector No.	B46
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	P	IGNITION
4	GR	ACC
5	O	ILLUMINATION
6	SB	VEHICLE SPEED (+PULSE)
7	G	REVERSE
13	B	CONTROL SIGNAL
14	L	SENSOR SIGNAL 1
15	BR	SENSOR SIGNAL 2
16	R	SENSOR SIGNAL 3

Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
13	L	-
14	W	-

17	G	AV COMM (H)
18	Y	AV COMM (L)
21	W	AV COMM (H)
22	W	AV COMM (L)
23	LG	LED (+)
24	G	LED (-)
27	W	CAMERA IMAGE SIGNAL
28	SHIELD	CAMERA IMAGE GND
29	Y	SIDE CAMERA RH IMAGE SIGNAL
30	G	SIDE CAMERA RH IMAGE GND
31	SHIELD	SHIELD
32	B	SIDE CAMERA RH GND
33	W	SIDE CAMERA RH COMM
34	R	SIDE CAMERA RH POWER SUPPLY
35	L	REAR CAMERA COMM
36	BR	REAR CAMERA POWER SUPPLY
37	SHIELD	SHIELD
38	R	REAR CAMERA GND
39	Y	REAR CAMERA IMAGE SIGNAL
40	W	REAR CAMERA IMAGE GND

Connector No.	B68
Connector Name	WIRE TO WIRE
Connector Type	RH08ME



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	- [With around view monitor]
6	B	- [With around view monitor]
7	W	- [With around view monitor]

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AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >


BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	B240
Connector Name	BUZZER
Connector Type	RK02FBR




Terminal No.	Color of Wire	Signal Name [Specification]
1	P	
2	GR	

Connector No.	B230
Connector Name	REAR SQUAWKER RH
Connector Type	TK02FBR



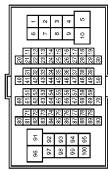
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK10PW-HSS




Terminal No.	Color of Wire	Signal Name [Specification]
16	L	
17	O	[With BOSE audio]

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4




Terminal No.	Color of Wire	Signal Name [Specification]
18	GR	
98	P	
100	L	[With BOSE audio]

Connector No.	B239
Connector Name	CORNER SENSOR (RL)
Connector Type	YDX02FB




Terminal No.	Color of Wire	Signal Name [Specification]
1	W	
2	B	

Connector No.	B236
Connector Name	CORNER SENSOR (RR)
Connector Type	YDX02FB




Terminal No.	Color of Wire	Signal Name [Specification]
1	R	
2	B	

Connector No.	B255
Connector Name	WIRE TO WIRE
Connector Type	RH06FB



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	
6	B	
7	R	

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
13	L	
14	W	

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AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

<p>Connector No. D1 Connector Name WIRE TO WIRE Connector Type TH40FW-CS15</p>	<p>Connector No. D3 Connector Name DOOR MIRROR (DRIVER SIDE) Connector Type TH24MW-NH</p>	<p>Connector No. D4 Connector Name FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM) Connector Type NS02FBR-CS</p>	<p>Connector No. D56 Connector Name REAR DOOR SPEAKER LH Connector Type NS02FBR-CS</p>
<p>Terminal No. 4 Color of Wire W Signal Name [Specification]</p> <p>Terminal No. 5 Color of Wire L Signal Name [Specification]</p> <p>Terminal No. 16 Color of Wire R Signal Name [Specification]</p> <p>Terminal No. 17 Color of Wire W Signal Name [Specification]</p> <p>Terminal No. 18 Color of Wire G Signal Name [Specification]</p> <p>Terminal No. 19 Color of Wire Y Signal Name [Specification]</p> <p>Terminal No. 27 Color of Wire B Signal Name [Specification]</p> <p>Terminal No. 28 Color of Wire SHIELD Signal Name [Specification]</p>	<p>Terminal No. 3 Color of Wire B Signal Name [Specification]</p> <p>Terminal No. 5 Color of Wire Y Signal Name [Specification]</p> <p>Terminal No. 6 Color of Wire R Signal Name [Specification]</p> <p>Terminal No. 17 Color of Wire G Signal Name [Specification]</p> <p>Terminal No. 18 Color of Wire W Signal Name [Specification]</p>	<p>Terminal No. 7 Color of Wire R Signal Name [Specification]</p> <p>Terminal No. 8 Color of Wire BR Signal Name [Specification]</p> <p>Terminal No. 18 Color of Wire R Signal Name [Specification]</p> <p>Terminal No. 19 Color of Wire Y Signal Name [Specification]</p> <p>Terminal No. 20 Color of Wire B Signal Name [Specification]</p> <p>Terminal No. 21 Color of Wire G Signal Name [Specification]</p> <p>Terminal No. 29 Color of Wire SHIELD Signal Name [Specification]</p> <p>Terminal No. 30 Color of Wire W Signal Name [Specification]</p> <p>Terminal No. 31 Color of Wire LG Signal Name [Specification]</p> <p>Terminal No. 32 Color of Wire BR Signal Name [Specification]</p>	<p>Terminal No. 1 Color of Wire L Signal Name [Specification]</p> <p>Terminal No. 2 Color of Wire W Signal Name [Specification]</p>
<p>Connector No. D33 Connector Name DOOR MIRROR (PASSENGER SIDE) Connector Type TH24MW-NH</p>	<p>Connector No. D34 Connector Name FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM) Connector Type NS02FBR-CS</p>	<p>Terminal No. 1 Color of Wire Y Signal Name [Specification]</p> <p>Terminal No. 16 Color of Wire Y Signal Name [Specification]</p> <p>Terminal No. 17 Color of Wire G Signal Name [Specification]</p>	<p>Terminal No. 1 Color of Wire Y Signal Name [Specification]</p> <p>Terminal No. 2 Color of Wire G Signal Name [Specification]</p>
<p>Terminal No. 4 Color of Wire W Signal Name [Specification]</p> <p>Terminal No. 5 Color of Wire L Signal Name [Specification]</p> <p>Terminal No. 16 Color of Wire R Signal Name [Specification]</p> <p>Terminal No. 17 Color of Wire W Signal Name [Specification]</p> <p>Terminal No. 18 Color of Wire G Signal Name [Specification]</p> <p>Terminal No. 19 Color of Wire Y Signal Name [Specification]</p> <p>Terminal No. 27 Color of Wire B Signal Name [Specification]</p> <p>Terminal No. 28 Color of Wire SHIELD Signal Name [Specification]</p>	<p>Terminal No. 3 Color of Wire B Signal Name [Specification]</p> <p>Terminal No. 5 Color of Wire Y Signal Name [Specification]</p> <p>Terminal No. 6 Color of Wire R Signal Name [Specification]</p> <p>Terminal No. 17 Color of Wire G Signal Name [Specification]</p> <p>Terminal No. 18 Color of Wire W Signal Name [Specification]</p>	<p>Terminal No. 1 Color of Wire Y Signal Name [Specification]</p> <p>Terminal No. 16 Color of Wire Y Signal Name [Specification]</p> <p>Terminal No. 17 Color of Wire G Signal Name [Specification]</p>	<p>Terminal No. 1 Color of Wire Y Signal Name [Specification]</p> <p>Terminal No. 2 Color of Wire G Signal Name [Specification]</p>

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AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

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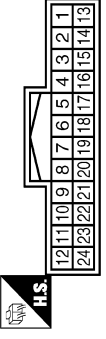
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	D111
Connector Name	REAR CAMERA
Connector Type	TH08MMF-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR CAMERA IMAGE GND
4	W	REAR CAMERA COMM
5	Y	REAR CAMERA IMAGE SIGNAL
7	L	REAR CAMERA GND
8	R	REAR CAMERA POWER SUPPLY

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
13	R	-
14	L	- [With around view monitor]
15	Y	-
16	G	- [With around view monitor]
17	W	- [With around view monitor]
18	SHIELD	-

Connector No.	E81
Connector Name	WIRE TO WIRE
Connector Type	RS02MB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	L	-

Connector No.	D76
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS02FER-CS



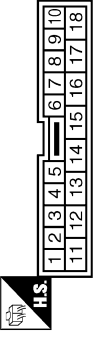
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-

Connector No.	E63
Connector Name	CORNER SENSOR (FL)
Connector Type	YDX02FB



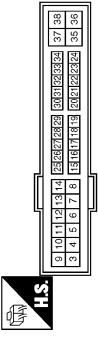
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	B	-

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSS



Terminal No.	Color of Wire	Signal Name [Specification]
16	L	-
17	Y	-

Connector No.	E5
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH02FW-CS12-M4-TV



Terminal No.	Color of Wire	Signal Name [Specification]
25	G	-

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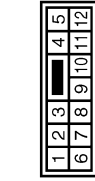
AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

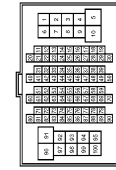
< ECU DIAGNOSIS >

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	E104
Connector Name	WIRE TO WIRE
Connector Type	HS12MW-CS



Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TK8FW-CS16-TM4



Connector No.	E107
Connector Name	PARKING BRAKE SWITCH
Connector Type	TB01FW



Connector No.	E151
Connector Name	WIRE TO WIRE
Connector Type	RS02FB



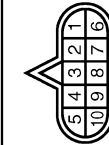
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	
2	BR	
3	L	
4	SHIELD	
7	Y	
8	R	

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	
2	W	
3	R	
4	GR	
5	O	
8	G	
9	Y	

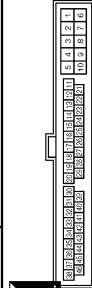
Connector No.	E152
Connector Name	CORNER SENSOR (FR)
Connector Type	YDX02FE



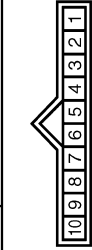
Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK38FW-NS10



Connector No.	F151
Connector Name	TOM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FBGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	
2	B	

Terminal No.	Color of Wire	Signal Name [Specification]
7	R	

Terminal No.	Color of Wire	Signal Name [Specification]
31	R	

Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

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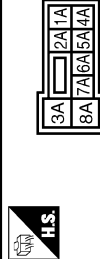
AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

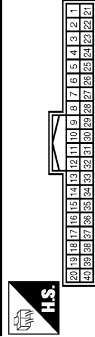
Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NSDBFW-M2



Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Connector No.	M4
Connector Name	WIRE TO WIRE
Connector Type	TH4DFW-NH



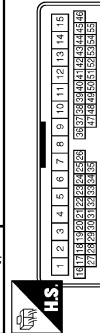
26	W	-
27	B	-
28	G	-
29	Y	-
30	R	-
31	R	-
32	SHIELD	-
33	R	-
34	W	-
35	B	-
36	SHIELD	-
37	B	-
38	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	V	-

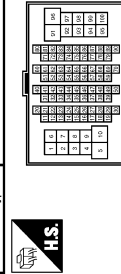
Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	P	-
3	V	-
4	V	-
12	B	-
13	B	-
14	LG	-
15	G	-
16	W	-
17	R	-
18	Y	-
25	SHIELD	-

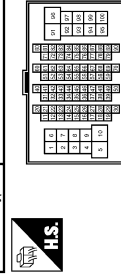
Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SB	-
67	V	-
68	SB	-
69	SHIELD	-
70	V	-
80	O	-

Terminal No.	Color of Wire	Signal Name [Specification]
4	P	-
5	L	-
16	R	-
17	B	-
18	G	-
19	Y	-
27	W	-
28	SHIELD	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	R	-
3	W	-
4	SHIELD	-
59	V	-
84	G	-
93	Y	-

Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
41	BR	-
42	R	-
44	LG	-
45	V	-
46	G	-
47	R	-
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-

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AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

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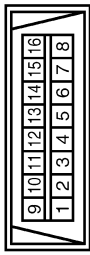
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M13
Connector Name	FRONT SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	
7	V	
14	P	

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-GS



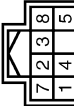
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	
3	V	
4	LG	
5	Y	
6	G	
7	L	
11	V	
12	SB	
13	Y	
14	Y	

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-TV



Terminal No.	Color of Wire	Signal Name [Specification]
24	P	
31	L	
33	B	

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN

Connector No.	M47
Connector Name	SONAR CONTROL UNIT
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	R	CORNER SENSOR FRONT LH
4	W	CORNER SENSOR FRONT RH
5	W	CORNER SENSOR REAR LH
6	R	CORNER SENSOR REAR RH
12	B	SENSOR GND
13	V	ACC
18	O	K LINE
19	G	AV COMM (H)
20	R	AV COMM (L)
23	GR	BULLZER
24	B	GND

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	
2	G	

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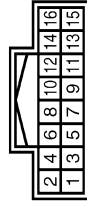
AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

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BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	V	AGC
6	LG	AV COMM (H)
8	V	AV COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS2FL-M2



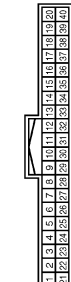
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	LG	-
3	LG	-
5	O	-

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH46FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-GS2



Terminal No.	Color of Wire	Signal Name [Specification]
13	BR	SOUND SIGNAL REAR RH (+)
14	Y	SOUND SIGNAL REAR RH (-)
15	B	STRG SW GND
16	L	STRG SW B
19	Y	BATTERY
20	B	GND

Terminal No.	Color of Wire	Signal Name [Specification]
13	B	GND
14	SHIELD	SHIELD
15	G	AUX IMAGE SIGNAL
17	B	RGB (R RED) SIGNAL
18	R	RGB (B BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DSP->CONT)
23	SHIELD	SHIELD

Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	AMP_ON SIGNAL
2	P	SOUND SIGNAL FRONT LH (+)
3	L	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	SB	SOUND SIGNAL REAR LH (-)
6	P	STRG SW A
7	V	ACC
9	R	ILLUMINATION
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (+)
12	G	SOUND SIGNAL FRONT RH (-)

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	V	ACC
4	SHIELD	SHIELD
5	R	AUX IMAGE GND
6	W	RGB (G GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (VS) SIGNAL
11	BR	COMM (CONT->DSP)
12	W	CAMERA IMAGE SIGNAL

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AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

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72	SHIELD	SHIELD
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Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



62	64	66	68	70	72
61	63	65	67	69	71

Terminal No.	Color of Wire	Signal Name [Specification]
61	B	RGB (R: RED) SIGNAL
62	W	RGB (G: GREEN) SIGNAL
63	R	RGB (B: BLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (VS) SIGNAL
68	R	I/P
69	W	V/P
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FY-R28-R-LH-Z



128	124	120	116	112	108	104	100
127	123	119	115	111	107	103	99
126	122	118	114	110	106	102	98
125	121	117	113	109	105	101	97

Terminal No.	Color of Wire	Signal Name [Specification]
T13	P	VEHCAN-L
T14	L	VEHCAN-H

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

38	R	VEHICLE SPEED (8-PULSE)
41	B	CONTROL SIGNAL 1
42	B	CONTROL SIGNAL 2
43	GR	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
48	G	AV COMM (H)
49	R	AV COMM (L)
50	LG	AV COMM (H)
51	V	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH40FW-NH



21	22	23	24	25	26	27	28	35	36	37
20	19	18	17	16	15	14	13	12	11	10
19	18	17	16	15	14	13	12	11	10	9
18	17	16	15	14	13	12	11	10	9	8
17	16	15	14	13	12	11	10	9	8	7
16	15	14	13	12	11	10	9	8	7	6
15	14	13	12	11	10	9	8	7	6	5
14	13	12	11	10	9	8	7	6	5	4
13	12	11	10	9	8	7	6	5	4	3
12	11	10	9	8	7	6	5	4	3	2
11	10	9	8	7	6	5	4	3	2	1

Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	Y	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
35	G	IGNITION
36	V	PARKING BRAKE
37	O	REVERSE

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

Terminal No.	Color of Wire	Signal Name [Specification]
2	R	-- [With NAVI]
3	G	-- [With NAVI]
4	SHIELD	-- [With NAVI]

Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH82FW-NH



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	101	102	103	104

Terminal No.	Color of Wire	Signal Name [Specification]
78	R	Pod SOUND SIGNAL LH (+)
80	B	Pod SOUND SIGNAL RH (+)
85	SB	DISK EJECT SIGNAL
86	SHIELD	SHIELD
87	R	AUX SOUND SIGNAL LH (+)
88	W	AUX SOUND SIGNAL GND
95	W	Pod SOUND SIGNAL LH (+)
96	G	Pod SOUND SIGNAL RH (+)
102	BR	SW GND
103	B	AUX SOUND SIGNAL RH (+)

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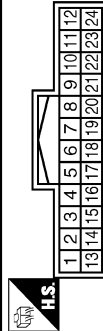
AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

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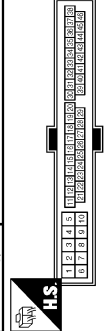
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod->iPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	R	iPod SOUND SIGNAL RH (+)
13	W	iPod SOUND SIGNAL LH (-)

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK35MW-NS10

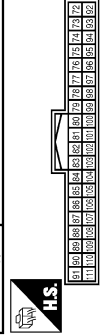


Terminal No.	Color of Wire	Signal Name [Specification]
31	W	-

14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	CG	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

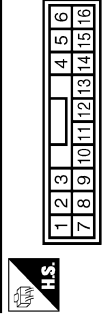
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (-)
2	W	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	R	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M122
Connector Name	BCM BODY CONTROL MODULE
Connector Type	TH4JFB-NH



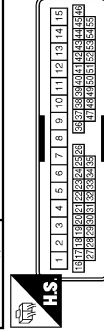
Terminal No.	Color of Wire	Signal Name [Specification]
91	L	CAN-L
91	L	CAN-H

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP1BEFY



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH4DMV-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	LG	-
18	R	-
19	B	-
20	Y	- [With around view monitor]
21	G	- [With around view monitor]
29	SHIELD	-
30	W	-
31	LG	-
32	G	-

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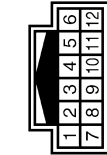
AROUND VIEW MONITOR CONTROL UNIT

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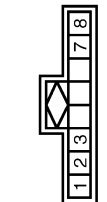
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	THZ2MW-NH



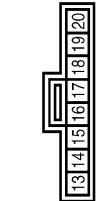
Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	
6	W	

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB8FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	AUX SOUND SIGNAL RH (+)
2	R	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	TK6BEGY



Terminal No.	Color of Wire	Signal Name [Specification]
14	W	
15	L	
17	BR	

Connector No.	M371
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SH-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
105	-	FM SUB
106	-	AM-FM MAIN
107	-	ANTENNA AMP. ON SIGNAL

Connector No.	M372
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKRA JACK



Terminal No.	Color of Wire	Signal Name [Specification]
108	-	SAATELLITE ANTENNA

Connector No.	M373
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT5-1S-HU



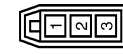
Terminal No.	Color of Wire	Signal Name [Specification]
110	-	GPS ANTENNA
111	SHIELD	SHIELD

Connector No.	M374
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	
2	-	
3	-	

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
AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

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
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M380
Connector Name	WIRE TO WIRE
Connector Type	GT16-1S-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M377
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1PP-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M386
Connector Name	ANTENNA BASE
Connector Type	GT13SSN-1/1PP-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP. ON SIGNAL
2	-	AM-FM MAIN

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SSN-2/1PP-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M383
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
3	-	SAATELLITE ANTENNA

Connector No.	M382
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

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AROUND VIEW MONITOR CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

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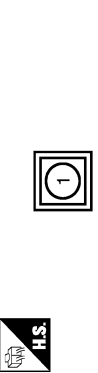
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	Color of Wire	Signal Name [Specification]
M337	WIRE TO WIRE	JASO JACK
M388	WIRE TO WIRE	JASO PLUG
M389	WINDOW ANTENNA (SUB)	F01FB-A
RT	WIRE TO WIRE	TK10FW-NBS

Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	R	[With NAVI]
3	G	[With NAVI]
4	SHIELD	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	R	[With NAVI]
3	G	[With NAVI]
4	SHIELD	-

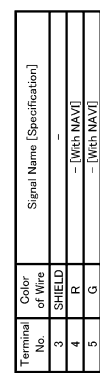
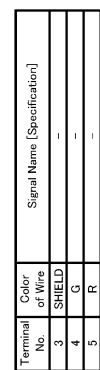
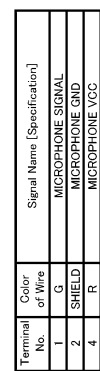
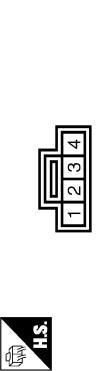
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	R	[With NAVI]
3	G	[With NAVI]
4	SHIELD	-



Connector No.	Color of Wire	Signal Name [Specification]
R2	WIRE TO WIRE	TH12FW-NH
RT1	WIRE TO WIRE	TH12MW-NH
RT7	MICROPHONE	TKG4FW

Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	R	[With NAVI]
5	G	[With NAVI]

Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	SHIELD	MICROPHONE SIGNAL
3	G	MICROPHONE GND
4	R	MICROPHONE VCC



SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

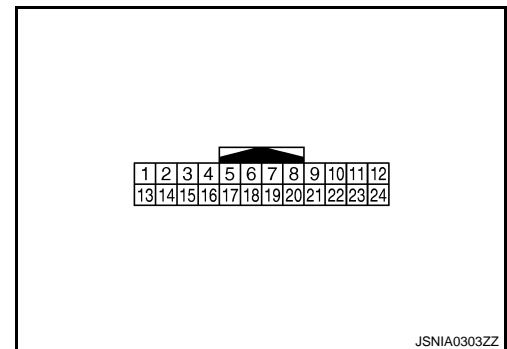
Reference Value

INFOID:000000003160754

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Display	Description
SONAR OPE	On	Around view monitor operating (sonar operating).
	Off	Around view monitor non-operating (sonar non-operating).
BUZZER OUTPUT	On	Buzzer is output condition.
	Off	Buzzer is not output condition.
CR SEN [FL] CR SEN [FR] CR SEN [RL] CR SEN [RR]	ERROR	When a sensor is abnormal.
	LV.0	When a sensor is not detection.
	LV.2	The distance between the corner sensor and an obstacle is 50 cm (19.6 in) or more and less than 60 cm (23.6 in).
	LV.3	The distance between the corner sensor and an obstacle is 30 cm (11.8 in) or more and less than 50 cm (19.6 in).
	LV.4	The distance between corner sensor and an obstacle less than 30 cm (11.8 in).

TERMINAL LAYOUT



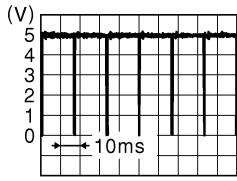
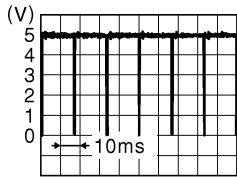
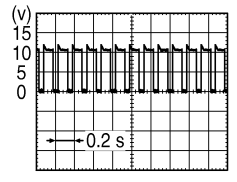
PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
3 (R)	12 (B)	Corner sensor signal front LH	Input	Ignition switch ON	"CAMERA" switch is ON or shift position is "R".	<p style="text-align: right; font-size: small;">JSNIA0837GB</p>
4 (W)	12 (B)	Corner sensor signal front RH	Input	Ignition switch ON	"CAMERA" switch is ON or shift position is "R".	<p style="text-align: right; font-size: small;">JSNIA0837GB</p>

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
5 (W)	12 (B)	Corner sensor signal rear LH	Input	Ignition switch ON	"CAMERA" switch is ON or shift position is "R".	 <p style="text-align: right; font-size: small;">JSNIA0837GB</p>
6 (W/R)	12 (B)	Corner sensor signal rear RH	Input	Ignition switch ON	"CAMERA" switch is ON or shift position is "R".	 <p style="text-align: right; font-size: small;">JSNIA0837GB</p>
12 (B)	Ground	Sensor ground	—	Ignition switch ON	—	0 V
13 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	12.0 V
18 (O)	—	K-line (CONSULT-III)	—	—	—	—
19 (G)	—	AV communication (H)	Input/ Output	—	—	—
20 (R)	—	AV communication (L)	Input/ Output	—	—	—
23 (GR)	Ground	Buzzer drive signal	Output	Ignition switch ON	When buzzer operation	<p>NOTE: Waveform period changes due to the distance to an obstacle.</p>  <p style="text-align: right; font-size: small;">SKIB8943E</p>
24 (B)	Ground	Ground	—	Ignition switch ON	—	0 V

Wiring Diagram - BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

- INFOID:000000003737139

Click here to view the eWD.

NOTE:

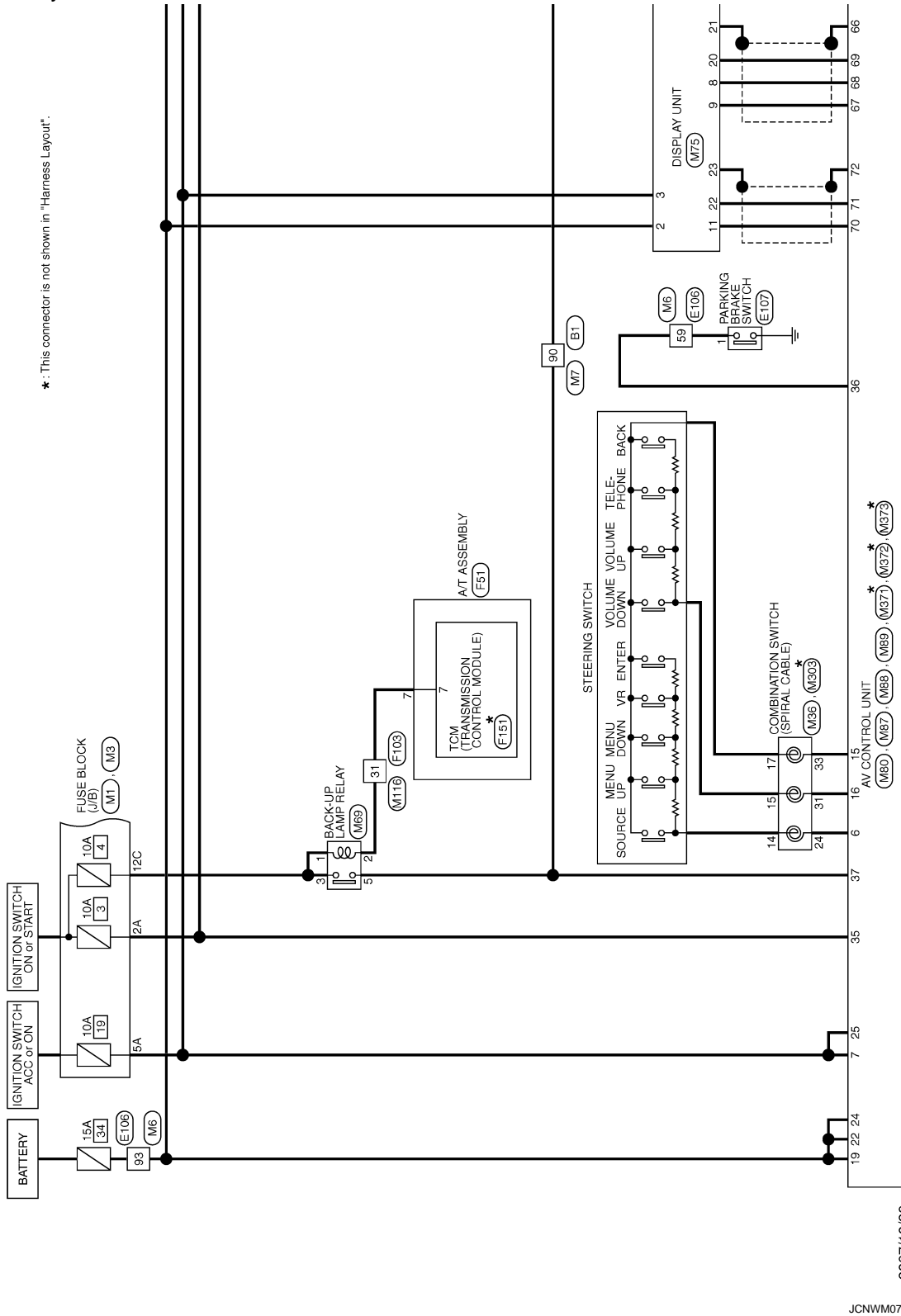
SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR



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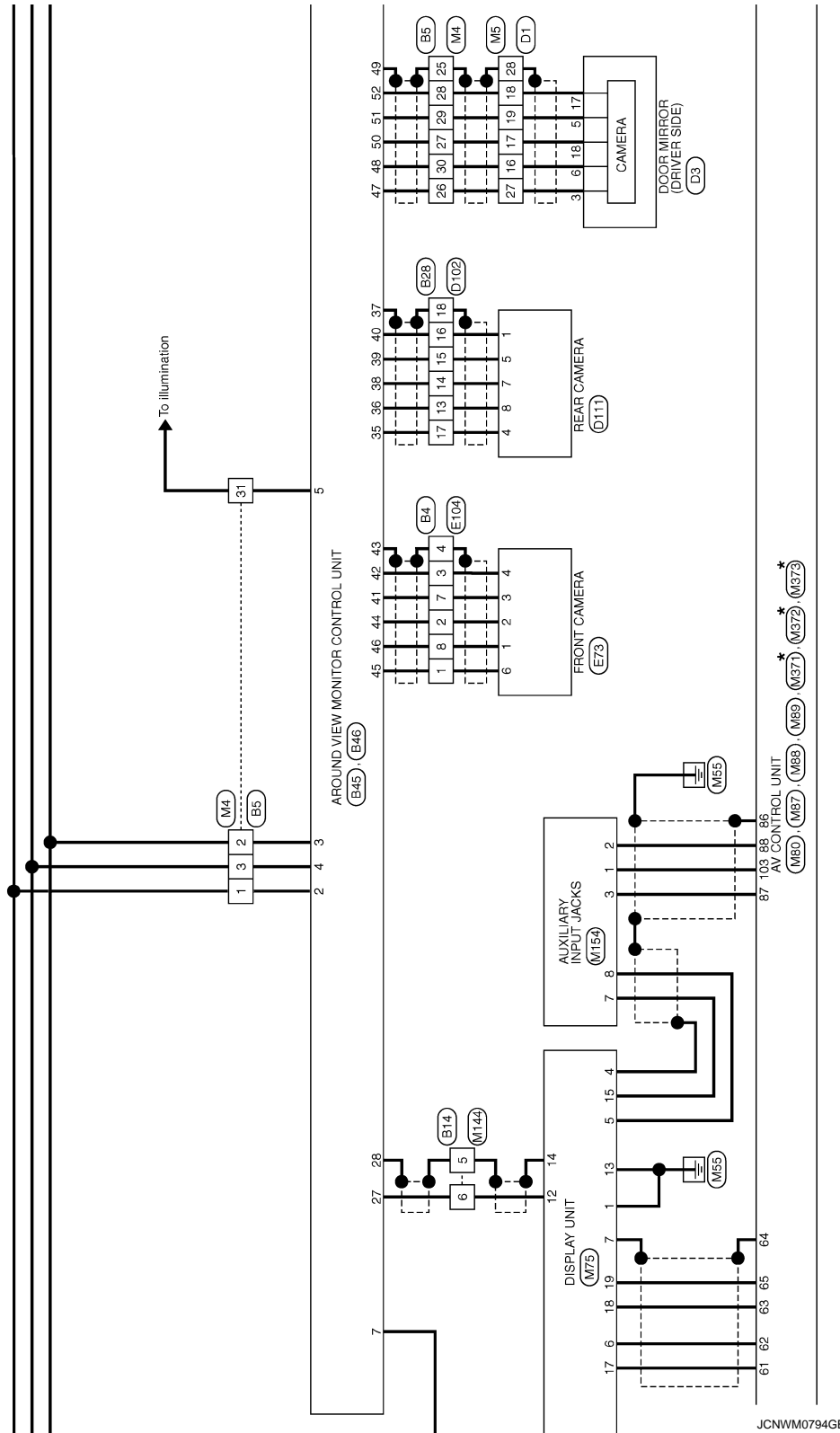
AV

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

*: This connector is not shown in "Harness Layout".

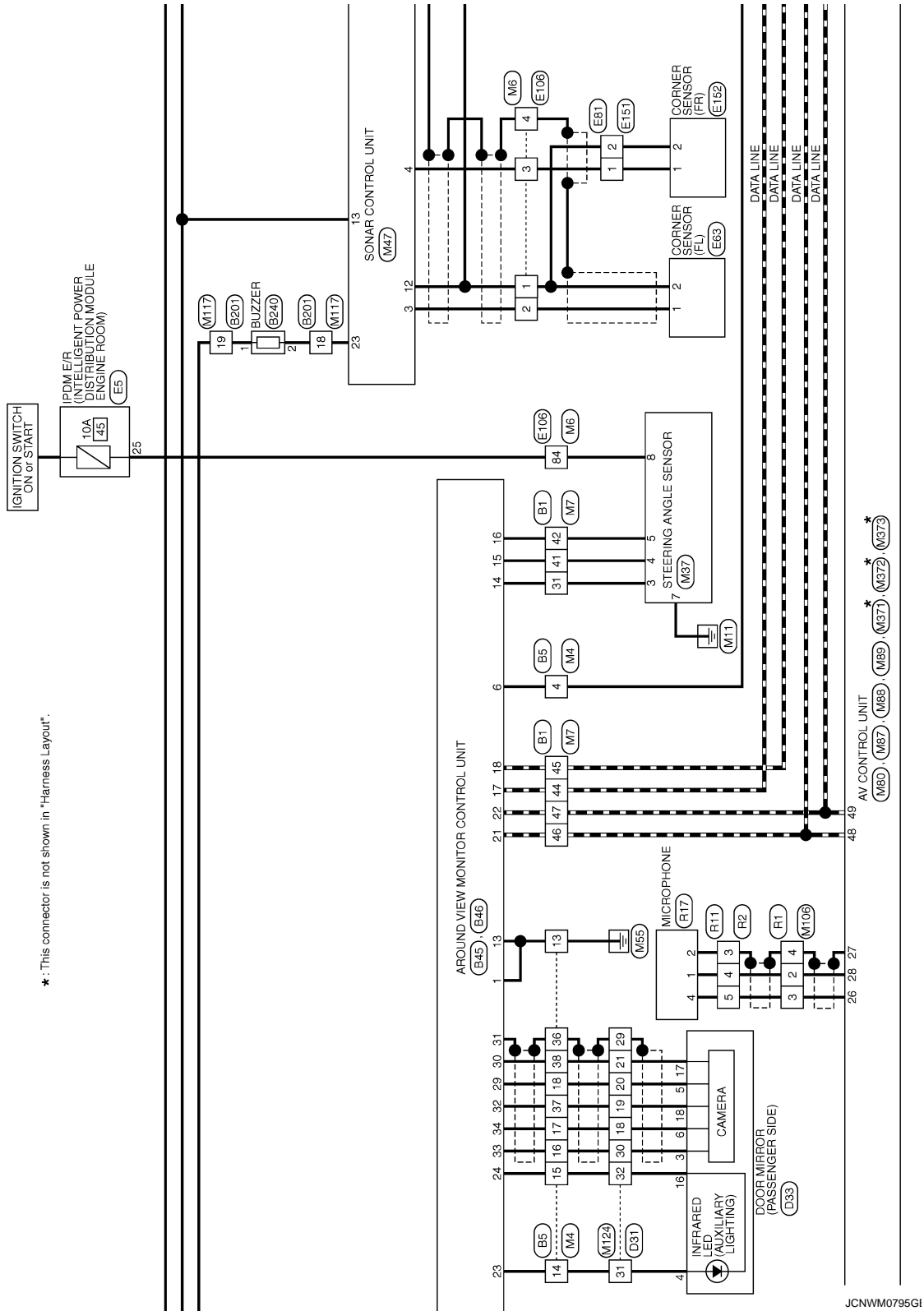


JCNWM0794GI

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >



*: This connector is not shown in "Harness Layout".

JCNWM07956I

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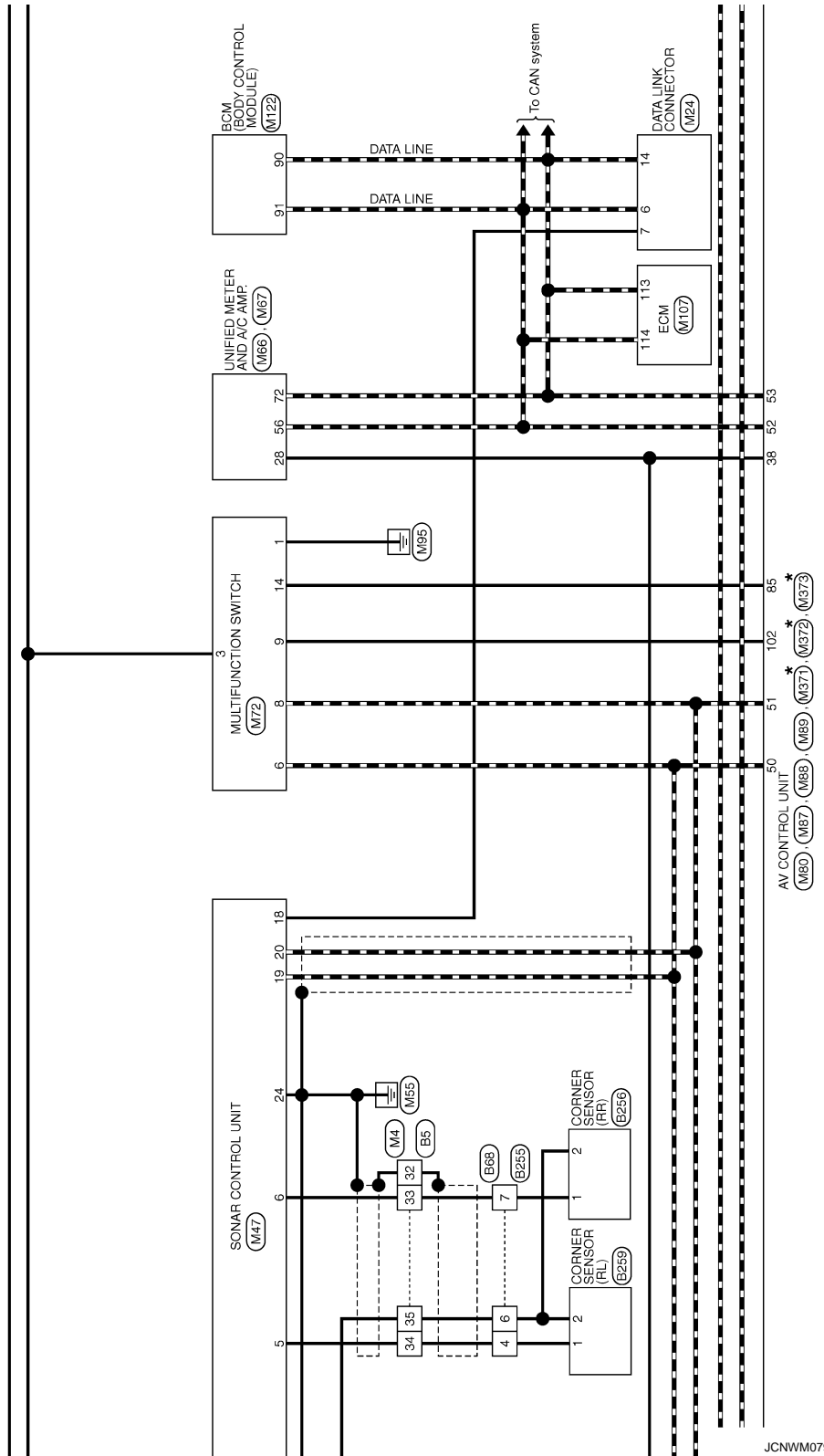
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SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

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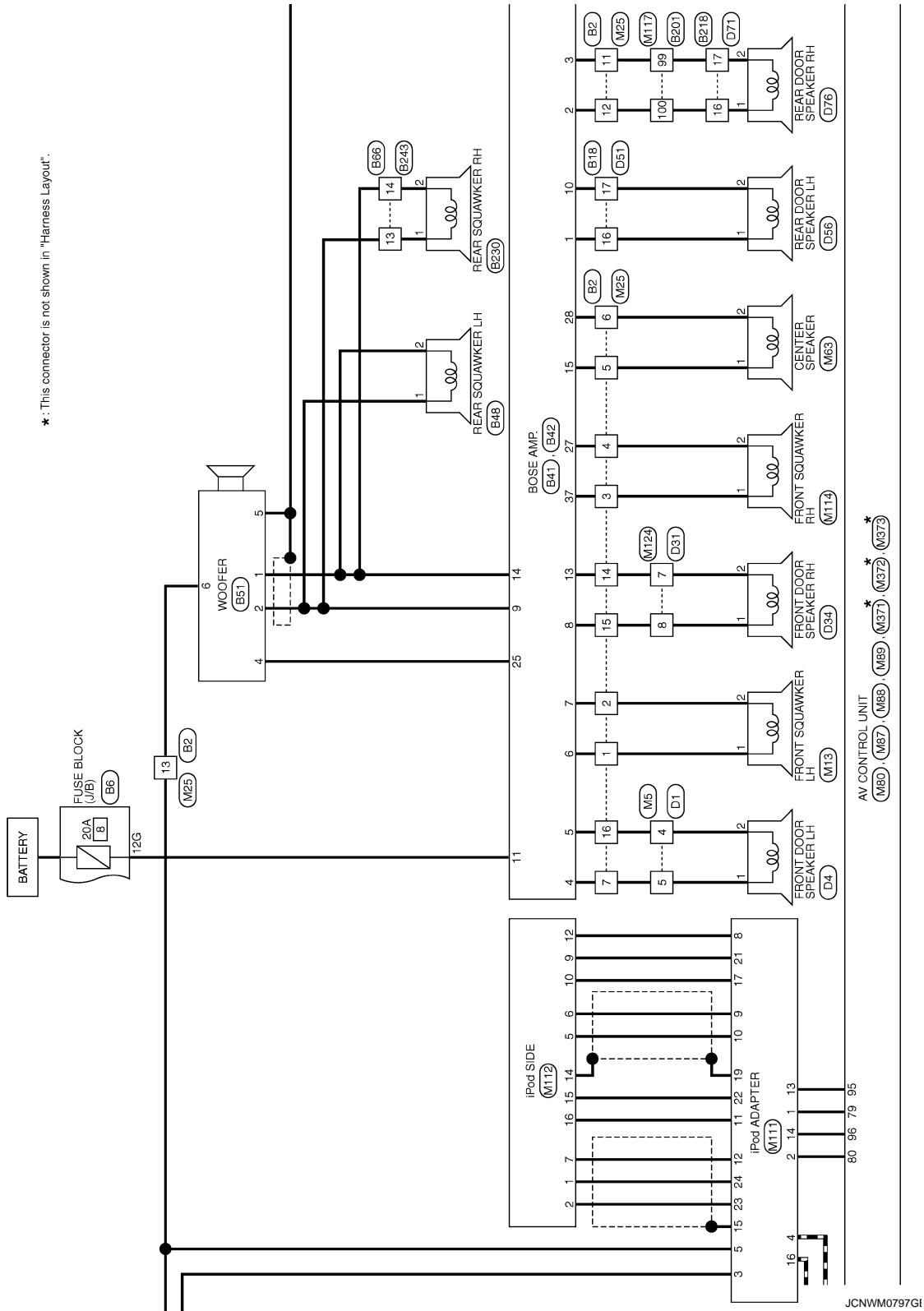


JCNWM0796G1

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >



*: This connector is not shown in "Harness Layout".

JCNWM0797GI

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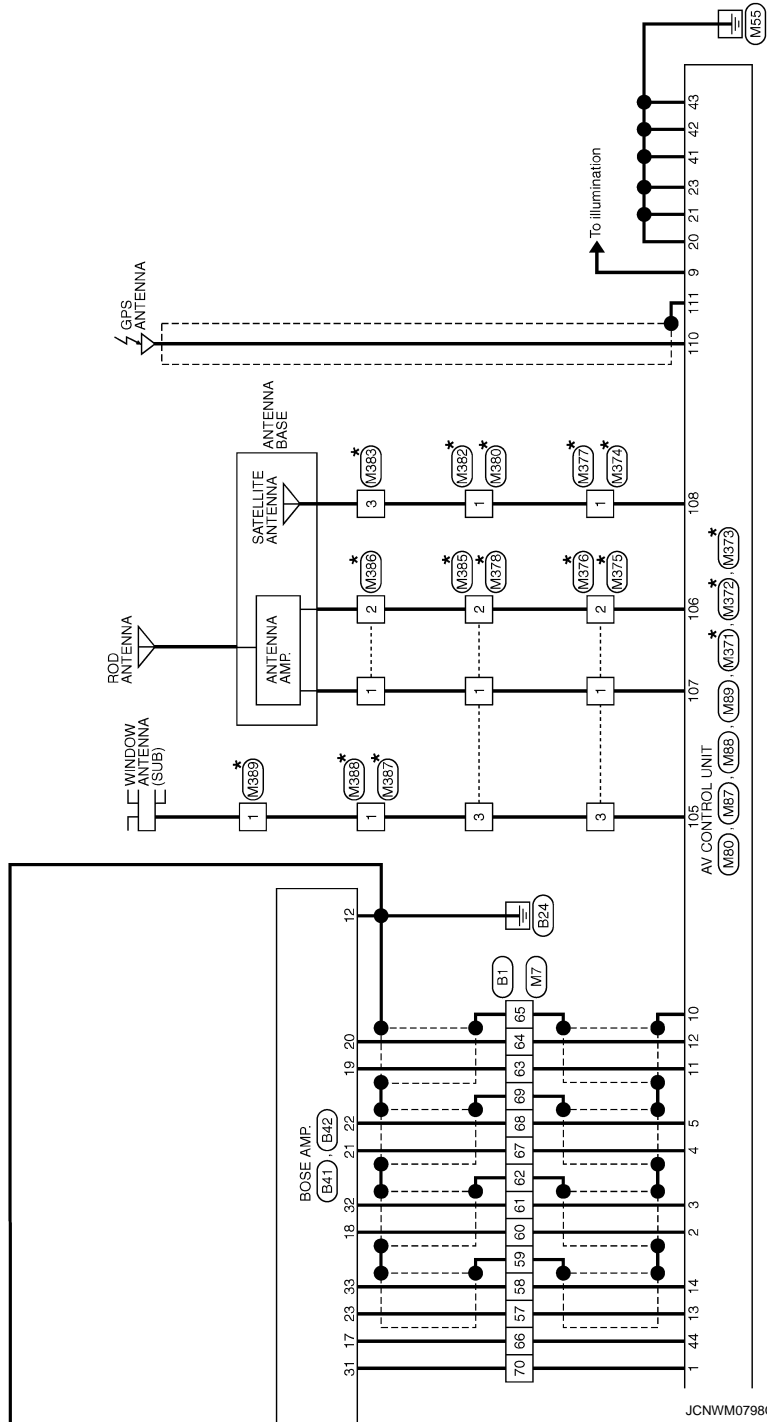
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SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

*: This connector is not shown in "Harness Layout".



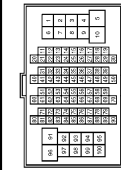
SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

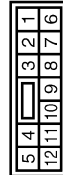
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
41	BR	-
42	R	-
44	G	- [With around view monitor]
45	Y	- [With around view monitor]
46	W	- [With around view monitor]
47	B	- [With around view monitor]
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-



Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	B	-
3	G	-
4	SHIELD	-
7	Y	-
8	R	-

61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	O	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
90	O	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	R	-
5	B	-
8	G	-
9	G	-
7	B	-
11	V	-
12	SB	-
13	W	-
14	Y	-

26	L	-
27	R	-
28	W	-
29	Y	-
30	BR	-
31	O	-
32	SHIELD	-
33	W	-
34	R	-
35	B	-
36	SHIELD	-
37	B	-
38	G	-

Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
12G	GR	-

JCNWM0799GI

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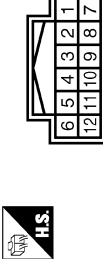
SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH27PW-RH



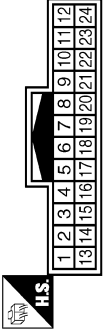
Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TK10PW-RSS



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	
6	W	

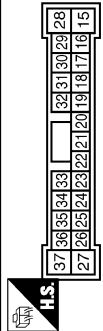
Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	[With BOSE audio]
17	G	[With BOSE audio]

Connector No.	B28
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-RH



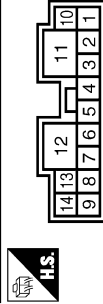
Terminal No.	Color of Wire	Signal Name [Specification]
13	BR	
14	R	[With around view monitor]
15	Y	[With around view monitor]
16	W	[With around view monitor]
17	L	[With around view monitor]
18	SHIELD	

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FRR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
31	W	AMP_ON SIGNAL
32	L	SOUND SIGNAL FRONT LH (-)
33	Y	SOUND SIGNAL REAR RH (-)
37	BR	SOUND SIGNAL FRONT SQUAWKER RH (+)

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA12FBR-SJA2



12	B	GND
13	Y	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)
14	R	SOUND SIGNAL WOOFER (-)

Terminal No.	Color of Wire	Signal Name [Specification]
15	B	SOUND SIGNAL CENTER (+)
17	O	MODE CHANGE SIGNAL
18	P	SOUND SIGNAL FRONT LH (+)
19	R	SOUND SIGNAL FRONT RH (+)
20	G	SOUND SIGNAL FRONT LH (-)
21	V	SOUND SIGNAL FRONT RH (-)
22	SB	SOUND SIGNAL REAR LH (+)
23	BR	SOUND SIGNAL REAR RH (+)
25	GR	WOOFER AMP_ON SIGNAL
27	R	SOUND SIGNAL FRONT SQUAWKER RH (-)
28	G	SOUND SIGNAL CENTER (+)

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR LH (+)
2	SB	SOUND SIGNAL REAR DOOR RH (+)
3	V	SOUND SIGNAL REAR DOOR RH (-)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
6	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL WOOFER (+)
10	G	SOUND SIGNAL REAR DOOR LH (-)
11	GR	BATTERY

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

52	W	SIDE CAMERA LH IMAGE GND
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Connector No.	B45
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH24FW-NH

42	44	46	48	50	52	54	56	58	60	62	64
41	43	45	47	49	51	53	55	57	59	61	63

Terminal No.	Color of Wire	Signal Name [Specification]
41	Y	FRONT CAMERA IMAGE SIGNAL
42	G	FRONT CAMERA IMAGE GND
43	SHIELD	SHIELD
44	B	FRONT CAMERA GND
45	W	FRONT CAMERA COMM
46	R	FRONT CAMERA POWER SUPPLY
47	L	SIDE CAMERA LH COMM
48	BR	SIDE CAMERA LH POWER SUPPLY
49	SHIELD	SHIELD
50	R	SIDE CAMERA LH GND
51	Y	SIDE CAMERA LH IMAGE SIGNAL

Connector No.	B48
Connector Name	REAR SOUNDWAKER LH
Connector Type	TK02FBR

2	1
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Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	B46
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH24FW-NH

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	B	GND
2	Y	BATTERY
3	P	IGNITION
4	GR	ACC
5	G	ILLUMINATION
8	SB	VEHICLE SPEED (8-PULSE)
7	G	REVERSE
13	B	CONTROL SIGNAL
14	L	SENSOR SIGNAL 1
15	BR	SENSOR SIGNAL 2
16	R	SENSOR SIGNAL 3

Connector No.	B68
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

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]
13	L	-
14	W	-

17	G	AV COMM (H)
18	Y	AV COMM (L)
21	W	AV COMM (H)
22	B	AV COMM (L)
23	LG	LED (+)
24	G	LED (-)
27	W	CAMERA IMAGE SIGNAL
28	SHIELD	CAMERA IMAGE GND
29	Y	SIDE CAMERA RH IMAGE SIGNAL
30	G	SIDE CAMERA RH IMAGE GND
31	SHIELD	SHIELD
32	B	SIDE CAMERA RH GND
33	W	SIDE CAMERA RH COMM
34	R	SIDE CAMERA RH POWER SUPPLY
35	L	REAR CAMERA COMM
36	BR	REAR CAMERA POWER SUPPLY
37	SHIELD	SHIELD
38	R	REAR CAMERA GND
39	Y	REAR CAMERA IMAGE SIGNAL
40	W	REAR CAMERA IMAGE GND

Connector No.	B68
Connector Name	WIRE TO WIRE
Connector Type	RH08MB

1	2	3	4
5	6	7	8

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	- [With around view monitor]
6	B	- [With around view monitor]
7	W	- [With around view monitor]

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SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]



BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	B240
Connector Name	BUZZER
Connector Type	RK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	
2	GR	

Connector No.	B230
Connector Name	REAR SQUAWKER RH
Connector Type	TK02FBR


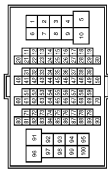
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-N5S



Terminal No.	Color of Wire	Signal Name [Specification]
16	L	
17	O	[With BOSE audio]

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
18	GR	
99	P	
100	L	[With BOSE audio]

Connector No.	B239
Connector Name	CORNER SENSOR (RL)
Connector Type	YDX02FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	
2	B	

Connector No.	B256
Connector Name	CORNER SENSOR (RR)
Connector Type	YDX02FB


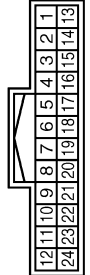
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	
2	B	

Connector No.	B255
Connector Name	WIRE TO WIRE
Connector Type	RH06FB

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	
6	B	
7	R	

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
13	L	
14	W	

JCNWM0802GI

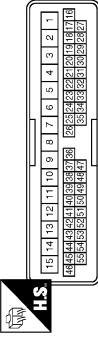
SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	BR	-
18	R	-
19	Y	-
20	B	- [With around view monitor]
21	G	- [With around view monitor]
29	SHIELD	-
30	W	-
31	LG	-
32	BR	-

Connector No.	D56
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS30ZFBR-CS



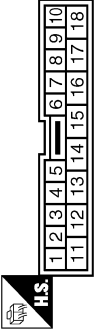
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	G	-

Connector No.	D4
Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)
Connector Type	NS30ZFBR-CS



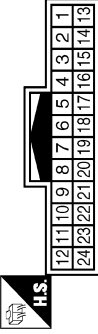
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	- [With BOSE audio]
17	G	- [With BOSE audio]

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH



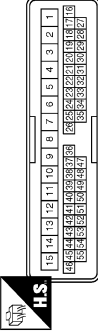
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	-
5	Y	-
6	R	-
17	G	-
18	W	-

Connector No.	D34
Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)
Connector Type	NS30ZFBR-CS



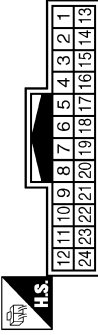
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	R	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
5	L	-
16	R	-
17	W	-
18	G	-
19	Y	-
27	B	-
28	SHIELD	-

Connector No.	D33
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	W	-
4	LG	-
5	B	-
6	R	-
16	BR	-
17	G	-
18	Y	-

JCNWM0803GI

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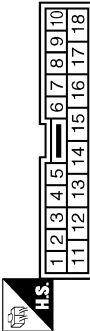
SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSB



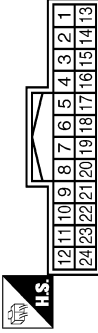
Terminal No.	Color of Wire	Signal Name [Specification]
16	L	-
17	Y	-

Connector No.	D75
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NSD2FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-RH



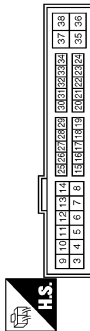
Terminal No.	Color of Wire	Signal Name [Specification]
13	R	-
14	L	- [With around view monitor]
15	Y	-
16	G	- [With around view monitor]
17	W	- [With around view monitor]
18	SHIELD	-

Connector No.	D111
Connector Name	REAR CAMERA
Connector Type	TH08BMV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR CAMERA IMAGE GND
4	W	REAR CAMERA COMM
5	Y	REAR CAMERA IMAGE SIGNAL
7	L	REAR CAMERA GND
8	R	REAR CAMERA POWER SUPPLY

Connector No.	E5
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-1V



Terminal No.	Color of Wire	Signal Name [Specification]
25	G	-

Connector No.	E63
Connector Name	CORNER SENSOR (FL)
Connector Type	YDX02FB



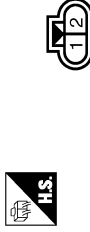
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	B	-

Connector No.	E73
Connector Name	FRONT CAMERA
Connector Type	RH06FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	FRONT CAMERA POWER SUPPLY
2	BR	FRONT CAMERA GND
3	Y	FRONT CAMERA IMAGE SIGNAL
4	L	FRONT CAMERA IMAGE GND
6	W	FRONT CAMERA COMM

Connector No.	E81
Connector Name	WIRE TO WIRE
Connector Type	RS02MB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	L	-


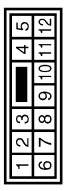









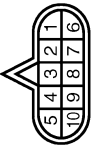

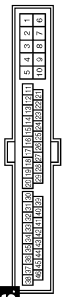


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SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No. E104	WIRE TO WIRE NS12MW-CS	Connector No. E106	WIRE TO WIRE TH80FW-CS16-TM4	Connector No. E107	PARKING BRAKE SWITCH T801FW	Connector No. E151	WIRE TO WIRE RS02FB	
Connector Name	NS12MW-CS	Connector Name	TH80FW-CS16-TM4	Connector Name	T801FW	Connector Name	RS02FB	
Connector Type	NS12MW-CS	Connector Type	TH80FW-CS16-TM4	Connector Type	T801FW	Connector Type	RS02FB	
								
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-	1	O	-	1	R	-
2	BR	-	2	B	-	2	B	-
3	L	-	3	W	-			
4	SHIELD	-	4	R	-			
7	Y	-	59	GR	-			
8	R	-	84	O	-			
			93	Y	-			
Connector No. E152	CORNER SENSOR (FR) YD02FB	Connector No. F51	A/T ASSEMBLY RK10FG-DGY	Connector No. F103	WIRE TO WIRE TK38FW-NS10	Connector No. F151	TCM (TRANSMISSION CONTROL MODULE) SP10FBGY	
Connector Name	CORNER SENSOR (FR)	Connector Name	A/T ASSEMBLY	Connector Name	TK38FW-NS10	Connector Name	TCM (TRANSMISSION CONTROL MODULE)	
Connector Type	YD02FB	Connector Type	RK10FG-DGY	Connector Type	TK38FW-NS10	Connector Type	SP10FBGY	
								
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-	7	R	-	7	O	REV LAMP RLY
2	B	-						

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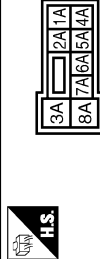
SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

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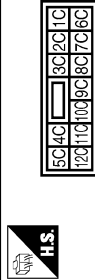
[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

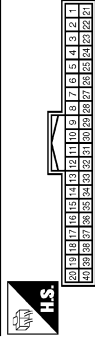
Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-MZ



Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS17FW-CS



Connector No.	M4
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-RH

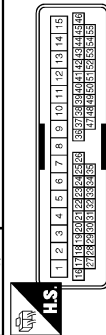


Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	V	-

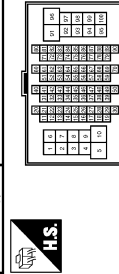
Terminal No.	Color of Wire	Signal Name [Specification]
12C	O	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	P	-
3	V	-
4	V	-
13	B	-
14	LG	-
15	G	-
16	W	-
17	R	-
18	Y	-
25	SHIELD	-

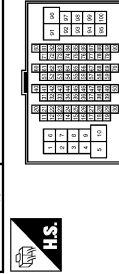
Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
4	P	-
5	L	-
16	R	-
17	B	-
18	G	-
19	Y	-
27	W	-
28	SHIELD	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	R	-
3	W	-
4	SHIELD	-
59	V	-
84	G	-
93	Y	-

Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
41	BR	-
42	R	-
44	LG	-
45	V	-
46	G	- [With base audio or with NAV]
47	R	- [With base audio or with NAV]
57	BR	-
58	Y	-
59	SHIELD	-
60	P	-

26	W	-
27	B	-
28	G	-
29	Y	-
30	R	-
31	R	-
32	SHIELD	-
33	R	-
34	W	-
35	B	-
36	SHIELD	-
37	B	-
38	G	-

61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	SB	-
67	V	-
68	SR	-
69	SHIELD	-
70	V	-
80	O	-

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SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M13
Connector Name	FRONT SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD1DFW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	
7	V	
14	P	

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS1BMW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	
2	W	
3	V	
4	LG	
5	Y	
8	G	
7	L	
11	V	
12	SB	
13	Y	
14	Y	

Connector No.	M38
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-IV



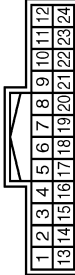
Terminal No.	Color of Wire	Signal Name [Specification]
24	P	
31	L	
33	B	

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	R	SENSOR3
7	B	GND
8	G	IGN

Connector No.	M47
Connector Name	SONAR CONTROL UNIT
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	R	CORNER SENSOR FRONT LH
4	W	CORNER SENSOR FRONT RH
5	W	CORNER SENSOR REAR LH
6	R	CORNER SENSOR REAR RH
12	B	SENSOR GND
13	V	ACC
18	O	K LINE
19	G	AV COMM (H)
20	R	AV COMM (L)
23	GR	BUZZER
24	B	GND

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	
2	G	

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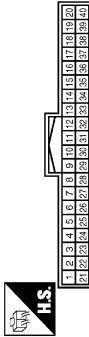
SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

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[BOSE AUDIO WITH NAVIGATION]

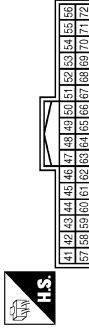
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH407V-NH



Terminal No.	28
Color of Wire	R
Signal Name [Specification]	VEHICLE SPEED (8-PULSE)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH432FV-NH



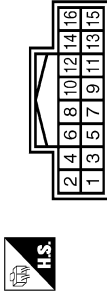
Terminal No.	56
Color of Wire	L
Signal Name [Specification]	CAN-H
Terminal No.	72
Color of Wire	P
Signal Name [Specification]	CAN-L

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS22FL-M2



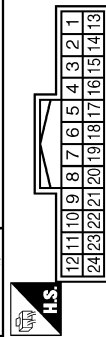
Terminal No.	1
Color of Wire	R
Signal Name [Specification]	-
Terminal No.	2
Color of Wire	LG
Signal Name [Specification]	-
Terminal No.	3
Color of Wire	LG
Signal Name [Specification]	-
Terminal No.	5
Color of Wire	O
Signal Name [Specification]	-

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH18FW-NH



Terminal No.	1
Color of Wire	B
Signal Name [Specification]	GND
Terminal No.	3
Color of Wire	V
Signal Name [Specification]	ACC
Terminal No.	6
Color of Wire	LG
Signal Name [Specification]	AV COMM (H)
Terminal No.	8
Color of Wire	V
Signal Name [Specification]	AV COMM (L)
Terminal No.	9
Color of Wire	BR
Signal Name [Specification]	SW GND
Terminal No.	14
Color of Wire	SB
Signal Name [Specification]	DISK EJECT SIGNAL

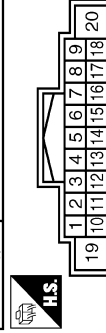
Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH242FV-NH



Terminal No.	1
Color of Wire	B
Signal Name [Specification]	GND
Terminal No.	2
Color of Wire	Y
Signal Name [Specification]	BATTERY
Terminal No.	3
Color of Wire	V
Signal Name [Specification]	ACC
Terminal No.	4
Color of Wire	SHIELD
Signal Name [Specification]	SHIELD
Terminal No.	5
Color of Wire	R
Signal Name [Specification]	AUX IMAGE GND
Terminal No.	6
Color of Wire	W
Signal Name [Specification]	RGB (G GREEN) SIGNAL
Terminal No.	7
Color of Wire	SHIELD
Signal Name [Specification]	SHIELD
Terminal No.	8
Color of Wire	R
Signal Name [Specification]	HP
Terminal No.	9
Color of Wire	B
Signal Name [Specification]	RGB AREA (VS) SIGNAL
Terminal No.	11
Color of Wire	BR
Signal Name [Specification]	COMM I (CONT->DISP)
Terminal No.	12
Color of Wire	W
Signal Name [Specification]	CAMERA IMAGE SIGNAL

Terminal No.	13
Color of Wire	B
Signal Name [Specification]	GND
Terminal No.	14
Color of Wire	SHIELD
Signal Name [Specification]	SHIELD
Terminal No.	15
Color of Wire	G
Signal Name [Specification]	AUX IMAGE SIGNAL
Terminal No.	17
Color of Wire	B
Signal Name [Specification]	RGB (R RED) SIGNAL
Terminal No.	18
Color of Wire	R
Signal Name [Specification]	RGB (B BLUE) SIGNAL
Terminal No.	19
Color of Wire	G
Signal Name [Specification]	RGB SYNC
Terminal No.	20
Color of Wire	W
Signal Name [Specification]	VP
Terminal No.	21
Color of Wire	SHIELD
Signal Name [Specification]	SHIELD
Terminal No.	22
Color of Wire	Y
Signal Name [Specification]	COMM (DISP->CONT)
Terminal No.	23
Color of Wire	SHIELD
Signal Name [Specification]	SHIELD

Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-GS2



Terminal No.	1
Color of Wire	V
Signal Name [Specification]	AMP_ON SIGNAL
Terminal No.	2
Color of Wire	P
Signal Name [Specification]	SOUND SIGNAL FRONT LH (+)
Terminal No.	3
Color of Wire	L
Signal Name [Specification]	SOUND SIGNAL FRONT LH (-)
Terminal No.	4
Color of Wire	V
Signal Name [Specification]	SOUND SIGNAL REAR LH (+)
Terminal No.	5
Color of Wire	SB
Signal Name [Specification]	SOUND SIGNAL REAR LH (-)
Terminal No.	6
Color of Wire	P
Signal Name [Specification]	STRG SW A
Terminal No.	7
Color of Wire	V
Signal Name [Specification]	ACC
Terminal No.	9
Color of Wire	R
Signal Name [Specification]	ILLUMINATION
Terminal No.	10
Color of Wire	SHIELD
Signal Name [Specification]	SHIELD
Terminal No.	11
Color of Wire	R
Signal Name [Specification]	SOUND SIGNAL FRONT RH (+)
Terminal No.	12
Color of Wire	G
Signal Name [Specification]	SOUND SIGNAL FRONT RH (-)

Terminal No.	13
Color of Wire	BR
Signal Name [Specification]	SOUND SIGNAL REAR RH (+)
Terminal No.	14
Color of Wire	Y
Signal Name [Specification]	SOUND SIGNAL REAR RH (-)
Terminal No.	15
Color of Wire	B
Signal Name [Specification]	STRG SW GND
Terminal No.	16
Color of Wire	L
Signal Name [Specification]	STRG SW B
Terminal No.	19
Color of Wire	Y
Signal Name [Specification]	BATTERY
Terminal No.	20
Color of Wire	B
Signal Name [Specification]	GND

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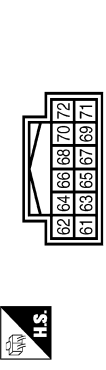
SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

[BOSE AUDIO WITH NAVIGATION]

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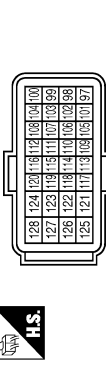
72	SHIELD	SHIELD
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Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
61	B	RGB (R: RED) SIGNAL
62	W	RGB (G: GREEN) SIGNAL
63	R	RGB (B: BLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (S) SIGNAL
68	R	HP
69	W	VP
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

Connector No.	M107
Connector Name	ECM
Connector Type	RH2AFGY-R28-R-LH-Z

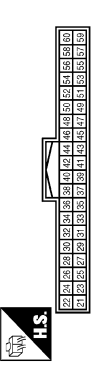


Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-LI
114	L	VEHCAN-HI

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

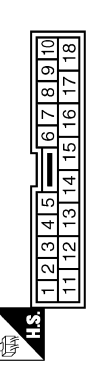
38	R	VEHICLE SPEED (8-PUL SE)
41	B	CONTROL SIGNAL 1
42	B	CONTROL SIGNAL 2
43	GR	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
48	G	AV COMM (R)
49	R	AV COMM (L)
50	LG	AV COMM (H)
51	V	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH46FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	Y	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
35	G	IGNITION
36	V	PARKING BRAKE
37	O	REVERSE

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSB



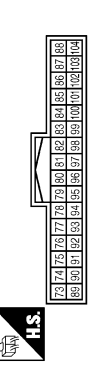
Terminal No.	Color of Wire	Signal Name [Specification]
2	R	-- [With NAVI]
3	G	-- [With NAVI]
4	SHIELD	-- [With NAVI]

Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH22FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
79	R	Pod SOUND SIGNAL LH (+)
80	B	Pod SOUND SIGNAL RH (+)
85	SB	DISK EJECT SIGNAL
86	SHIELD	SHIELD
87	R	AUX SOUND SIGNAL LH (+)
88	W	AUX SOUND SIGNAL LH (-)
96	G	Pod SOUND SIGNAL LH (+)
102	BR	Pod SOUND SIGNAL RH (+)
103	B	AUX SOUND SIGNAL RH (+)

Connector No.	M108
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSB



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	-- [With NAVI]
3	G	-- [With NAVI]
4	SHIELD	-- [With NAVI]

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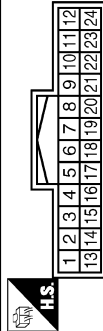
SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

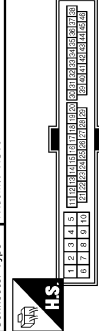
BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M111
Connector Name	IPod ADAPTER
Connector Type	TH24PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	IPod SOUND SIGNAL LH (+)
2	B	IPod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER
9	P	COMM (IPod ADAPTER->IPod)
10	L	COMM (IPod->IPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	R	IPod SOUND SIGNAL RH (+)
13	W	IPod SOUND SIGNAL LH (-)

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK36MW-NS10

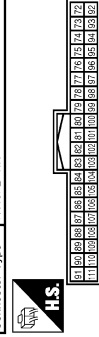


Terminal No.	Color of Wire	Signal Name [Specification]
31	W	-

14	G	IPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	COND
19	SHIELD	SHIELD
21	W	IPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	W	IPod SOUND SIGNAL GND
24	B	IPod SOUND SIGNAL LH (+)

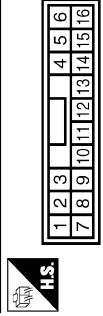
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	IPod SOUND SIGNAL LH (+)
2	W	IPod SOUND SIGNAL RH (+)
5	L	COMM (IPod->IPod ADAPTER)
6	P	COMM (IPod ADAPTER->IPod)
7	R	IPod SOUND SIGNAL RH (+)
9	W	IPod CONNECTION RECOGNITION
10	BR	COND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



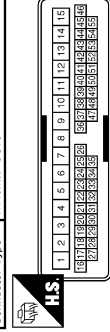
Terminal No.	Color of Wire	Signal Name [Specification]
91	L	CAN-L
		CAN-H

Connector No.	M112
Connector Name	IPod SIDE
Connector Type	IP18EGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	- [With BOSE audio]
2	LG	- [With BOSE audio]

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



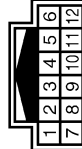







Terminal No.	Color of Wire	Signal Name [Specification]
7	Y	-
8	LG	-
18	R	-
19	B	-
20	Y	- [With around view monitor]
21	G	- [With around view monitor]
29	SHIELD	-
30	W	-
31	LG	-
32	G	-

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No. M144 Connector Name WIRE TO WIRE Connector Type TH12MW-NH				Terminal No. 5 Color of Wire SHIELD Terminal No. 6 Color of Wire W		Signal Name [Specification] - -	
Connector No. M154 Connector Name AUXILIARY INPUT JACKS Connector Type A08PW				Terminal No. 1 Color of Wire B Terminal No. 2 Color of Wire W Terminal No. 3 Color of Wire R Terminal No. 7 Color of Wire G Terminal No. 8 Color of Wire R		Signal Name [Specification] AUX SOUND SIGNAL RH (+) AUX SOUND SIGNAL GND AUX SOUND SIGNAL LH (+) AUX IMAGE SIGNAL AUX IMAGE GND	
Connector No. M303 Connector Name COMBINATION SWITCH (SPIRAL CABLE) Connector Type TKGBFGY				Terminal No. 14 Color of Wire W Terminal No. 15 Color of Wire L Terminal No. 17 Color of Wire BR		Signal Name [Specification] - -	
Connector No. M371 Connector Name AV CONTROL UNIT (WITH NAVI) Connector Type GT13SFZ-2/1S-HU				Terminal No. 105 Color of Wire - Terminal No. 106 Color of Wire - Terminal No. 107 Color of Wire -		Signal Name [Specification] FM SUB AM-FM MAIN ANTENNA AMP. ON SIGNAL	
Connector No. M372 Connector Name AV CONTROL UNIT (WITH NAVI) Connector Type FAKRA JACK				Terminal No. 108 Color of Wire - Terminal No. 109 Color of Wire -		Signal Name [Specification] SATELLITE ANTENNA	
Connector No. M373 Connector Name AV CONTROL UNIT (WITH NAVI) Connector Type GT5-1S-HU				Terminal No. 110 Color of Wire - Terminal No. 111 Color of Wire SHIELD		Signal Name [Specification] GPS ANTENNA SHIELD	
Connector No. M374 Connector Name WIRE TO WIRE Connector Type GT16C-1S-HU				Terminal No. 1 Color of Wire - Terminal No. 2 Color of Wire -		Signal Name [Specification] - -	
Connector No. M375 Connector Name WIRE TO WIRE Connector Type GT13SC-2/1S-HU				Terminal No. 1 Color of Wire - Terminal No. 2 Color of Wire - Terminal No. 3 Color of Wire -		Signal Name [Specification] - - -	

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
SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]


BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	M380
Connector Name	WIRE TO WIRE
Connector Type	GT16-1S-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M377
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M396
Connector Name	ANTENNA BASE
Connector Type	GT13SN-1/1PP-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP. ON SIGNAL
2	-	AM-FM MAIN

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU




Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M383
Connector Name	ANTENNA BASE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
3	-	SAETLLITE ANTENNA

Connector No.	M382
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

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SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION AND AROUND VIEW MONITOR

Connector No.	Color of Wire	Signal Name [Specification]
M387	-	-
M388	-	-
M389	-	-
M390	-	-
M391	-	-
M392	-	-
M393	-	-
M394	-	-
M395	-	-
M396	-	-
M397	-	-
M398	-	-
M399	-	-
M400	-	-
M401	-	-
M402	-	-
M403	-	-
M404	-	-
M405	-	-
M406	-	-
M407	-	-
M408	-	-
M409	-	-
M410	-	-
M411	-	-
M412	-	-
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M414	-	-
M415	-	-
M416	-	-
M417	-	-
M418	-	-
M419	-	-
M420	-	-
M421	-	-
M422	-	-
M423	-	-
M424	-	-
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M814	-	-
M815	-	-
M816	-	-
M817	-	-
M818	-	-
M819	-	-

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

DTC Index

INFOID:000000003160757

DTC	Display item	Malfunction is detected when...	Reference
B2700	CORNER SENSOR [FL] [B2700]	Corner sensor front left is malfunctioning.	AV-536
B2701	SENSOR HARNESS OPEN [CR-FL] [B2701]	Corner sensor front left harness circuit is open.	AV-537
B2702	CORNER SENSOR [FR] [B2072]	Corner sensor front right is malfunctioning.	AV-538
B2703	SENSOR HARNESS OPEN [CR-FR] [B2703]	Corner sensor front right harness circuit is open.	AV-539
B2704	CORNER SENSOR [RL] [B2704]	Corner sensor rear left is malfunctioning.	AV-540
B2705	SENSOR HARNESS OPEN [CR-RL] [B2705]	Corner sensor rear left harness circuit is open.	AV-541
B2706	CORNER SENSOR [RR] [B2706]	Corner sensor rear right is malfunctioning.	AV-542
B2707	SENSOR HARNESS OPEN [CR-RR] [B2707]	Corner sensor rear right harness circuit is open.	AV-543

NOTE:

“TIME” means the following.

- 0: Means detected malfunction at present. (From malfunction detection to turning ignition switch OFF)
- 1–39: Means detected malfunction in past.

MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

MULTI AV SYSTEM SYMPTOMS

Symptom Table

INFOID:000000003459047

RELATED TO NAVIGATION

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take
Multifunction switch and preset switch operation does not work.	<ul style="list-style-type: none"> All switches cannot be operated. "MULTI AV" is displayed on system selection screen when the CONSULT-III is started. 	<ul style="list-style-type: none"> Multifunction switch power supply and ground circuit. AV communication circuit between AV control unit and multifunction switch. Perform CONSULT-III self-diagnosis. Refer to AV-498, "CONSULT-III Function (MULTI AV)" .
	<ul style="list-style-type: none"> All switches cannot be operated. "MULTI AV" is not displayed on system selection screen when the CONSULT-III is initialized. 	AV control unit power supply and ground circuit malfunction. Refer to AV-544, "AV CONTROL UNIT : Diagnosis Procedure" .
	Only specified switch cannot be operated.	Multifunction switch or preset switch malfunction. Perform multifunction switch and preset switch self-diagnosis function. Refer to AV-482, "Diagnosis Description" .
Fuel economy display, vehicle setting operation is abnormal.	There is malfunction in the CONSULT-III self-diagnosis result.	Perform detected DTC self-diagnosis. Refer to AV-498, "CONSULT-III Function (MULTI AV)" .
	There is no malfunction in the self-diagnosis results.	Ignition signal circuit malfunction. Refer to AV-544, "AV CONTROL UNIT : Diagnosis Procedure" .
Guide sound is not heard.	On the setting display select "system sound (guide sound volume, etc.)," and confirm that guide sound is ON.	AV control unit malfunction. Replace AV control unit. Refer to AV-903, "Exploded View" .

RELATED TO HANDS-FREE PHONE

- Check that the cellular phone is corresponding type (Bluetooth® correspond) when the hands-free related malfunction vehicle is in service before performing a diagnosis.
- There is a case that malfunction occurs due to the version change of the phone type, etc. even though it is a corresponding type. Therefore, confirm it by changing the cellular phone to another corresponding type phone, and check that it operates normally. It is necessary to distinguish whether the cause is the vehicle or cellular phone.

Simple check for Bluetooth® communication

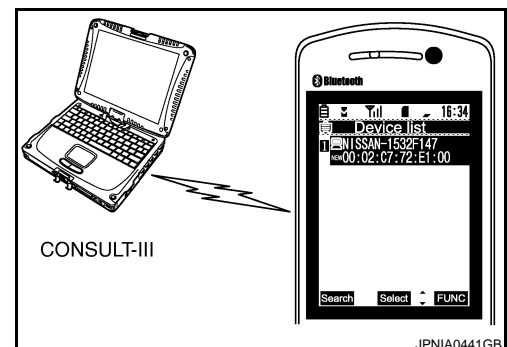
If cellular phone and AV control unit cannot be connected with Bluetooth® communication, following procedure allows the technician to judge which device has malfunction.

- Turn on a cellular phone, not connecting Bluetooth® communication.
- Start CONSULT-III, then start Windows®.
- Set CONSULT-III near a cellular phone.
- When operated Bluetooth® registration by cellular phone, check if CONSULT-III* would be displayed on the device name. (If other Bluetooth® device is located near cellular phone, a name of the device would be displayed also.)

NOTE:

*:Displayed device name is "NISSAN-*****".

- If no device name is displayed, cellular phone is malfunctioning. Repair the cellular phone first, then perform diagnosis.
- If CONSULT-III is displayed on device name, cellular phone is normal. Perform diagnosis as per the following table.



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MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]

< SYMPTOM DIAGNOSIS >

Trouble diagnosis chart by symptom

Symptoms	Check items	Probable malfunction location
Does not recognize cellular phone connection. (no connection is displayed on the display at the guide.)	Repeat the registration of cellular phone.	AV control unit malfunction. Replace AV control unit. Refer to AV-903, "Exploded View" .
Hands-free phone cannot be established.	<ul style="list-style-type: none"> Hands-free phone operation can be made, but the communication cannot be established. Hands-free phone operation can be performed, however, voice between each other cannot be heard during the conversation. 	AV control unit malfunction. Replace AV control unit. Refer to AV-903, "Exploded View" .
The other party's voice cannot be heard by hands-free phone.	Check the "microphone speaker" in "Confirmation/Adjustment" mode if sound is heard.	AV control unit malfunction. Replace AV control unit. Refer to AV-903, "Exploded View" .
	Check the "microphone speaker" in "Confirmation/Adjustment" mode if sound is not heard.	AV control unit malfunction. Replace AV control unit. Refer to AV-903, "Exploded View" .
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 AV-903, "Exploded View" .
	Sound operation function does not work.	Microphone signal circuit malfunction. Refer to AV-560, "Diagnosis Procedure" .

RELATED TO REAR VIEW MONITOR

Trouble diagnosis chart by symptom

Symptoms	Check items	Probable malfunction location
Camera image is not displayed (displayed in black and nothing can be displayed)	AUX image is not displayed.	<ul style="list-style-type: none"> Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and display unit. Refer to AV-555, "Diagnosis Procedure" Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit. Refer to AV-556, "Diagnosis Procedure".
Camera image is not shown. (Guiding line is displayed.)	—	<ul style="list-style-type: none"> Camera image signal circuit between camera control unit and rear view camera. Rear view camera power supply circuit. Refer to AV-562, "Diagnosis Procedure".
Camera image is not displayed. (Only warning message under area is displayed.)	There is malfunction in the CONSULT-III self-diagnosis result.	Perform detected DTC self-diagnosis. Refer to AV-498, "CONSULT-III Function (MULTI AV)" .
	AUX image is normal.	Camera image signal circuit malfunction between camera control unit and display unit. Refer to AV-564, "WITH REAR VIEW MONITOR : Diagnosis Procedure" .
	AUX image is not displayed.	RGB area (YS) signal circuit malfunction between AV control unit and display unit. Refer to AV-554, "Diagnosis Procedure" .
	Select "Camera Cont." of "Confirmation/Adjustment" mode, Reverse Sensor is not turned ON at "Connection Confirmation".	Reverse signal circuit (camera control unit).
Camera image is rolling.	AUX image is also rolling.	Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit. Refer to AV-556, "Diagnosis Procedure" .

MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]

< SYMPTOM DIAGNOSIS >

Symptoms	Check items	Probable malfunction location
Camera image does not switch.	Malfunction of self-diagnosis result is indicated.	Camera-connection recognition signal circuit Refer to AV-498, "CONSULT-III Function (MULTI AV)" .
	Malfunction of self-diagnosis result is not indicated.	Reverse signal circuit (AV control unit).
Possible route line is indicated abnormally when camera image is displayed.	—	Sensor signal circuit malfunction. Refer to AV-567, "WITH REAR VIEW MONITOR : Diagnosis Procedure" .

RELATED TO AROUND VIEW MONITOR

Symptoms	Check items	Probable malfunction location / Action to take
It does not switch to camera image even when the "CAMERA" switch is pressed or the selector lever is in the reverse position.	"Camera Cont." of "Confirmation/Adjustment" can be selected.	Ignition signal circuit.
	"Camera Cont." of "Confirmation/Adjustment" cannot be selected.	<ul style="list-style-type: none"> Around view monitor control unit power supply and ground circuits. Refer to AV-547, "AROUND VIEW MONITOR CONTROL UNIT : Diagnosis Procedure". AV communication circuits. Refer to AV-498, "CONSULT-III Function (MULTI AV)".
The screen switches when pressing the "CAMERA" switch or shifting the selector lever to the reverse position, however, all views are not displayed.	Only superimposing is displayed. (Only the image displayed by AV control unit is displayed)	<ul style="list-style-type: none"> Camera image signal circuit between around view monitor control unit and display unit. Refer to AV-547, "AROUND VIEW MONITOR CONTROL UNIT : Diagnosis Procedure". RGB (YS) area signal circuit. Refer to AV-554, "Diagnosis Procedure".
	Superimposing is not displayed.	<p>Communication circuit between AV control unit and display unit. Refer to AV-498, "CONSULT-III Function (MULTI AV)".</p> <p>When detecting no malfunction in those components, the following items are a possible cause.</p> <ul style="list-style-type: none"> Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and display unit. Refer to AV-555, "Diagnosis Procedure". Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit. Refer to AV-556, "Diagnosis Procedure".
Camera image is rolling.	AUX image is rolling	<ul style="list-style-type: none"> Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and display unit. Refer to AV-555, "Diagnosis Procedure". Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit. Refer to AV-556, "Diagnosis Procedure".
It cannot be switched to rear view monitor even when the selector lever is in the reverse position.	The front view is displayed normally.	Reverse signal circuit. (AV control unit)

MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]

< SYMPTOM DIAGNOSIS >

Symptoms	Check items	Probable malfunction location / Action to take	
The predicted course line display in front view and rear view is malfunctioning.	The "Steer. Angle Sensor" is not turned ON at "Connection Confirmation" of "Camera Cont."	Steering angle sensor signal circuits. Refer to AV-567, "WITH REAR VIEW MONITOR : Diagnosis Procedure" .	
<ul style="list-style-type: none"> The front view screen is not displayed. The front of Birds-Eye view screen is not displayed. 	Check the item Front Camera in "Connection Confirmation" mode of "Camera Cont."	<ul style="list-style-type: none"> Image Output Signal: NG COMM Status: NG COMM Line: NG 	<ul style="list-style-type: none"> Front camera image signal circuit. Front camera power supply and ground circuits. Refer to AV-578, "Diagnosis Procedure"
		<ul style="list-style-type: none"> Image Output Signal: OK COMM Status: NG COMM Line: NG 	Front camera communication signal circuit. Refer to AV-577, "Diagnosis Procedure" .
<ul style="list-style-type: none"> The rear view screen is not displayed. The rear of Birds-Eye view screen is not displayed. 	Check the item Rear Camera in "Connection Confirmation" mode of "Camera Cont."	<ul style="list-style-type: none"> Image Output Signal: NG COMM Status: NG COMM Line: NG 	<ul style="list-style-type: none"> Rear camera image signal circuit. Rear camera power supply and ground circuits. Refer to AV-581, "Diagnosis Procedure" .
		<ul style="list-style-type: none"> Image Output Signal: OK COMM Status: NG COMM Line: NG 	Rear camera communication signal circuits. Refer to AV-580, "Diagnosis Procedure" .
<ul style="list-style-type: none"> The front-side screen is not displayed. The side RH of Birds-Eye view screen is not displayed. 	Check the item Pass-Side Camera in "Connection Confirmation" mode of "Camera Cont."	<ul style="list-style-type: none"> Image Output Signal: NG COMM Status: NG COMM Line: NG 	<ul style="list-style-type: none"> Side camera RH image signal circuit. Side camera RH power supply and ground circuits. Refer to AV-587, "Diagnosis Procedure" .
		<ul style="list-style-type: none"> Image Output Signal: OK COMM Status: NG COMM Line: NG 	Side camera RH communication circuit. Refer to AV-586, "Diagnosis Procedure" .
The side LH of Birds-eye view screen is not displayed.	Check the item Dr-Side Camera at "Connection Confirmation" mode of "Camera Cont."	<ul style="list-style-type: none"> Image Output Signal: NG COMM Status: NG COMM Line: NG 	<ul style="list-style-type: none"> Side camera LH image signal circuit. Side camera LH power supply and ground circuits. Refer to AV-584, "Diagnosis Procedure" .
		<ul style="list-style-type: none"> Image Output Signal: OK COMM Status: NG COMM Line: NG 	Side camera LH communication circuit. Refer to AV-583, "Diagnosis Procedure" .
When shift position is other than "R" the front-side and front screen or the Birds-Eye view and front screen remain displaying even if the vehicle speed increases.	—	Vehicle speed signal (around view monitor control unit).	
Around view monitor does not start other than shift position "R"	—	Certain States restrict the operation so that around view monitor does not start other than at shift position "R".	

RELATED TO CAMERA ASSISTANCE SONAR

MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]

< SYMPTOM DIAGNOSIS >

Symptoms	Check items	Probable malfunction location / Action to take
The malfunction is detected in the sonar indicator (Always displayed in red)	The malfunction is detected in only 1 indicator (Always displayed in red)	<ul style="list-style-type: none"> Corner sensor malfunction in corresponding area Corner sensor harness circuit in corresponding area Perform CONSULT-III self-diagnosis of sonar system. Refer to AV-506, "CONSULT-III Function (SONAR)" .
	The malfunction is detected in all 4 indicators (Always displayed in red)	<ul style="list-style-type: none"> Corner sensor ground circuit. Perform CONSULT-III self-diagnosis of sonar system. Refer to AV-506, "CONSULT-III Function (SONAR)" . <ul style="list-style-type: none"> Sonar control unit power supply and ground circuits. AV communication circuits. Perform CONSULT-III self-diagnosis of multi AV system. Refer to AV-498, "CONSULT-III Function (MULTI AV)" .
The sonar indicator is normal, but the buzzer does not sound	The buzzer is turned ON when performing "Buzzer" in "Active test" of "Sonar".	Replace sonar control unit. Refer to AV-929, "Exploded View"
	The buzzer is not turned ON when performing "Buzzer" in "Active test" of "Sonar".	Replace buzzer. Refer to AV-932, "Exploded View" .

RELATED TO RGB IMAGE

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take
RGB image is not shown.	<ul style="list-style-type: none"> All RGB images are not shown. "MULTI AV" is displayed on system selection screen when the CONSULT-III is started. 	Perform CONSULT-III self-diagnosis. Refer to AV-498, "CONSULT-III Function (MULTI AV)" .
	<ul style="list-style-type: none"> All RGB images are not shown. "MULTI AV" is not displayed on system selection screen when the CONSULT-III is started. 	AV control unit power supply and ground circuit malfunction. Refer to AV-544, "AV CONTROL UNIT : Diagnosis Procedure" .
Color of RGB image is not proper.	Light blue (Cyan) tint.	RGB signal (R: red) circuit malfunction between AV control unit and display unit. Refer to AV-550, "Diagnosis Procedure" .
	Purple (Magenta) tint.	RGB signal (G: green) circuit malfunction between AV control unit and display unit. Refer to AV-551, "Diagnosis Procedure" .
	Screen looks yellowish.	RGB signal (B: blue) circuit malfunction between AV control unit and display unit. Refer to AV-552, "Diagnosis Procedure" .
RGB screen is rolling.	—	RGB synchronizing signal circuit malfunction between AV control unit and display unit. Refer to AV-553, "Diagnosis Procedure" .

RELATED TO VOICE CONTROL

Trouble diagnosis chart by symptom

MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]

< SYMPTOM DIAGNOSIS >

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 AV-903, "Exploded View" .
	Voice does not sound at "Voice Microphone Test" of Confirmation/Adjustment mode.	Microphone circuit malfunction. Refer to AV-560, "Diagnosis Procedure" .
The voice cannot be controlled (Voice control screen is not displayed).	Steering switch "SOURCE", "MENU UP", "MENU DOWN", "ENTER" operates, but "↙" does not operate.	Steering switch malfunction. Replace steering switch.
	Steering switch's "SOURCE", "MENU UP", "MENU DOWN", "↙", "ENTER" does not operate.	Steering switch signal A circuit malfunction. Refer to AV-571, "Diagnosis Procedure" .
	All steering switches do not work.	Steering switch signal GND circuit malfunction. Refer to AV-575, "Diagnosis Procedure" .

RELATED TO AUDIO

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take
The disk cannot be removed.	—	Disk eject signal circuit malfunction between AV control unit and preset switch. Refer to AV-559, "Diagnosis Procedure" .
Audio sound is not heard.	No sound from all speakers.	<ul style="list-style-type: none"> Amp. ON signal circuit. BOSE amp. power supply and ground circuits. Refer to AV-546, "BOSE AMP. : Diagnosis Procedure".
	Sound is not heard from woofer.	<ul style="list-style-type: none"> Woofer power supply and ground circuits. Sound signal woofer circuits between BOSE amp. and woofer. Woofer amp. ON signal circuit between BOSE amp. and woofer.
	Sound is not heard from center speaker.	Sound signals center speaker circuit.
	Sound is heard only from specific places (RH front, RH rear, LH front and LH rear).	Sound signal circuits of suspect system.
It does not change to "Driver's Audio Stage" mode.	—	Mode change signal circuit. Refer to AV-558, "Diagnosis Procedure" .
Satellite radio is not received.	There is malfunction in the CONSULT-III self-diagnosis result.	Perform CONSULT-III self-diagnosis. Refer to AV-498, "CONSULT-III Function (MULTI AV)" .
	There is no malfunction in the CONSULT-III self-diagnosis result.	Perform the following inspection procedure. <ol style="list-style-type: none"> Check satellite radio antenna mounting nut for looseness. NOTE: Tightening torque: 6.5 N·m (0.66 kg·m, 58 in·lb) Visually check for satellite radio antenna feeder. Replace the satellite radio antenna (antenna base). Refer to AV-912, "Exploded View". Replace the AV control unit. Refer to AV-903, "Exploded View".
AM/FM radio is not received.	Other audio sounds are normal.	<ul style="list-style-type: none"> Antenna amp. ON signal circuit. Antenna feeder.

RELATED TO iPod®

Trouble diagnosis chart by symptom

Connect another iPod® and check if the symptom is reproduced or not. If the symptom is reproduced, diagnose the vehicle. If no malfunction is detected, replace the iPod harness.

NOTE:

MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]




< SYMPTOM DIAGNOSIS >

It is unable to check that between iPod® and iPod harness.

Symptoms	Check items	Possible malfunction location / Action to take
The sound of iPod® is not heard.	Other audio sounds are normal.	<ul style="list-style-type: none"> iPod sound signal circuits between AV control unit and iPod adapter. iPod sound signal circuits between iPod® and iPod adapter.
It does not change to iPod mode.	There is malfunction in the CONSULT-III self-diagnosis.	Perform CONSULT-III self-diagnosis. Refer to AV-498. "CONSULT-III Function (MULTI AV)".
"iPod is not connected" is displayed when it comes to iPod mode.	Connected to iPod®.	iPod connection recognition signal circuit between iPod® and iPod adapter.
iPod® cannot charge the battery.	—	iPod battery charge circuit between iPod® and iPod adapter.
The title of music file in the iPod® is not indicated.	—	Communication circuit between iPod® and iPod adapter.
Accessing the iPod® is unavailable from the vehicle.		

RELATED TO STEERING SWITCH

Trouble diagnosis chart by symptom

Symptoms	Probable malfunction location
None of the steering switch operations work.	Steering switch signal GND circuit malfunction. Refer to AV-575. "Diagnosis Procedure".
Only specified switch (1) cannot be operated.	Steering switch malfunction. Replace steering switch.
Steering switch's "SOURCE", "MENU UP", "MENU DOWN", "  ", "ENTER" switches do not work.	Steering switch signal A circuit malfunction. Refer to AV-571. "Diagnosis Procedure".
Steering switch's "  , "VOL UP", "VOL DOWN", "  switches do not work.	Steering switch signal B circuit malfunction. Refer to AV-573. "Diagnosis Procedure".

RELATED TO AUXILIARY INPUT

NOTE:

Check that there is no malfunction of AUX equipment main body before performing a diagnosis.

Trouble diagnosis chart by symptom

Symptoms	Check items	Probable malfunction location
No voice sound is heard when AUX mode is selected.	Voice sound is heard when other modes are selected.	AUX sound signal circuits (auxiliary input jacks to AV control unit).
Image is not displayed when AUX mode is selected.	Camera image is displayed.	AUX image signal circuit malfunction. Refer to AV-557. "Diagnosis Procedure".

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P

AV

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

NORMAL OPERATING CONDITION

Description

INFOID:000000003160759

- For Navigation system operation information, refer to Navigation system Owner's Manual.
- Vehicle operation information, refer to 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 system in the video mode.	Push <DISC-AUX> to change the mode.
	The display is turned off.	Push <Day/Night> to turn on 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.	Push <MAP>.
The screen is too dim. The movement is slow.	The temperature in the interior of the vehicle is low.	Wait until the interior of the vehicle has warmed up.
Some pixels in the display are darker or brighter than others.	This condition is an inherent characteristic of liquid crystal displays.	This is not a malfunction.
Some menu items cannot be selected.	Some menu items become unavailable while the vehicle is driven.	Park the vehicle in a safe location, and then operate the navigation system.

NOTE:

Locations stored in the Address Book and other memory functions may be lost if the vehicle's battery is disconnected or becomes discharged. If this occurs, service the vehicle's battery as necessary and re-enter the information in the Address Book.

RELATED TO VOICE RECOGNITION

Related to basic operation

Symptom	Possible cause	Possible solution
The system does not recognize your command. 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 made is ready	Push and release “  ” switch on the steering switch, and speak a command after the tone sounds
	8 seconds or more have passed after you pushed and released “  ” switch on the steering switch.	Make sure to speak a command within 8 seconds after you push 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 sound of the fan of the air conditioner is too loud.	If the air conditioner is set to “Auto”, the fan speed is automatically lowered and voice commands can be recognized more easily. Lower the fan speed as necessary or set the air conditioner to “Auto”.

Related to item choice

The system should respond correctly to all voice commands without difficulty. If problems are encountered, follow the solutions given in this guide for the appropriate error.

Where the solutions are listed by number, try each solution in turn, starting with number one, until the problem is resolved.

NORMAL OPERATING CONDITION

[BOSE AUDIO WITH NAVIGATION]

< SYMPTOM DIAGNOSIS >

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. NOTE: 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 resolves.

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), NOTE: If it is too noisy to use the phone, it is likely that the voice commands will be recognized.
	5. If more than one command was said at a time, try saying the commands separately.
	6. If the system consistently fails to recognize commands, the voice training procedure should be carried out to improve the recognition response for the speaker. See "Speaker adaptation (SA) mode" earlier in this section. Refer to "OWNER'S MANUAL".
The system consistently selects the wrong voicetag	1. Ensure that the phone book entry name requested matches what was originally stored. This can be confirmed by using the "List Names" command.
	2. Replace one of the names being confused with a new name.

RELATED TO AUDIO

- The majority of the audio malfunctions are the result of outside causes (bad CD/cassette, electromagnetic interference, etc.). Check the symptoms below to diagnose the malfunction.
- The vehicle itself can be a source of noise if noise prevention parts or electrical equipment is malfunctioning. Check if noise is caused and/or changed by engine speed, ignition switch turned to each position, and operation of each piece of electrical equipment, and then determine the cause.

NOTE:

- CD-R is not guaranteed to play because they can contain compressed audio (MP3, WMA) or could be incorrectly mastered by the customer on a computer.
- Check if the CDs carry the Compact Disc Logo. If not, the disc is not mastered to the "red book" Compact Disc Standard and may not play.

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Symptom	Cause and Counter measure
Cannot play	Check if the CD/CF was inserted correctly.
	Check if the CD/CF is scratched or dirty.
	Check if there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.
	If there is a temperature increase error, the player will play correctly after it returns to the normal temperature.
	If there is a mixture of music CD files (CD-DA data) and MP3/WMA files on a CD, only the music CD files (CD-DA data) will be played.
	Files with extensions other than ".MP3", ".WMA", ".mp3", or ".wma" cannot be played. In addition, the character codes and number of characters for folder names and file names should be in compliance with the specifications.
	Check if the disc or the file is generated in an irregular format, This may occur depending on the variation or the setting of MP3/WMA writing applications or other text editing applications.
	Check if the finalization process, such as session close and disc close, is done for the disc.
Poor sound quality	Check if the CD/CF is scratched or dirty.
	Check if the CD/CF is protected by copyright.
It takes a relatively long time before the music starts playing.	If there are many folder or file levels on the MP3/WMA CD/CF, or if it is a multisession disc, some time may be required before the music starts playing.
Music cuts off or skips	The writing software and hardware combination might not match, or the writing speed, writing depth, writing width might not match the specifications. Try using the slowest writing speed.
Skipping with high bit rate files	Skipping may occur with large quantities if data such as for high bit rate data.
Move immediately to the next song when playing	When a non-MP3/WMA file has been given an extension of ".MP3", ".WMA", ".mp3", or ".wma", or when play is prohibited by copyright protection, the player will skip to the next song.
The songs do not play back in the desired order.	The playback order is the order in which the files were written by the software, so the files might not play in the desired order.

Noise resulting from variations in field strength, such as fading noise and multi-path noise, or external noise from trains and other sources, is not a malfunction.

NOTE:

- Fading noise: This noise occurs because of variations in the field strength in a narrow range due to mountains or buildings blocking the signal.
- Multi-path noise: This noise results from a time difference between the broadcast waves directly from the station arriving at the antenna and the waves reflected by mountains or buildings.

RELATED TO VEHICLE ICON

Symptom	Possible cause	Possible solution
Names of roads differ between Plan View and Birdview™.	This is because the quantity of the displayed information is reduced so that the screen does not become too crowded. There is also a chance that names of the roads may be displayed multiple times, and the names appearing on the screen may be different because of a processing procedure.	This is not a malfunction.
The vehicle icon is not displayed in the correct position.	The vehicle was transported after the ignition switch was pushed off, for example, by a ferry or car transporter.	Drive the vehicle for a while on a road where GPS signals can be received.
	The position and direction of the vehicle icon may be incorrect depending on the driving environments and the levels of positioning accuracy of the navigation system.	This is not a malfunction. Drive the vehicle for a while to automatically correct the position and direction of the vehicle icon.
When the vehicle is traveling on a new road, the vehicle icon is located on another road nearby.	Because the new road is not stored in the map data, the system automatically places the vehicle icon on the nearest road available.	Updated road information will be included in the next version of the map data.

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Symptom	Possible cause	Possible solution
The screen does not switch to the night screen even after turning on the headlights.	The daytime screen was set the last time the headlights were turned on.	Set the screen to the night screen mode using <Day/Night> when you turn on the headlights.
The map does not scroll even when the vehicle is moving.	The current location map screen is not displayed.	Push <MAP>.
The vehicle icon is not displayed.	The current location map screen is not displayed.	Push <MAP>.
The location of the vehicle icon is misaligned from the actual position.	When using tire chains or replacing the tires, speed calculations based on the speed sensor may be incorrect.	Drive the vehicle for a while (at approximately 19 MPH for about 30 minutes) to automatically correct the vehicle icon position. If this does not correct the vehicle icon position, contact an INFINITI dealer.
	The map data has a mistake or is incomplete (the vehicle icon position is always misaligned in the same area).	Updated road information will be included in the next version of the map data.

RELATED TO ROUTE CALCULATION AND VISUAL GUIDANCE

Symptom	Possible cause	Possible solution
Waypoints are not included in the auto reroute calculation.	Waypoints that you have already passed are not included in the auto reroute calculation.	If you want to go to that waypoint again, you need to edit the route.
Route information is not displayed.	Route calculation has not yet been performed.	Set the destination and perform route calculation.
	You are not driving on the suggested route.	Drive on the suggested route.
	Route guidance is set to off.	Turn on route guidance.
	Route information is not provided for certain types of roads (roads displayed in gray).	This is not a malfunction.
The auto reroute calculation (or detour calculation) suggests the same route as the one previously suggested.	Route calculations took priority conditions into consideration, but the same route was calculated.	This is not a malfunction.
A waypoint cannot be added.	Five waypoints are already set on the route, including ones that you have already passed.	A maximum of 5 waypoints can be set on the route. If you want to go to 6 or more waypoints, perform route calculations multiple times as necessary.
The suggested route is not displayed.	Roads near the destination cannot be calculated.	Reset the destination to a main or ordinary road, and recalculate the route.
	The starting point and destination are too close.	Set a more distant destination.
	The starting point and destination are too far away.	Divide your trip by selecting one or two intermediate destinations, and perform route calculations multiple times.
	There are time restricted roads (by the day of the week, by time) near the current vehicle location or destination.	Set [Use Time Restricted Roads] to off.
The part of the route that you have already passed is deleted.	A route is managed by sections between waypoints. If you passed the first waypoint, the section between the starting point and the waypoint is deleted. (It may not be deleted depending on the area.)	This is not a malfunction.
An indirect route is suggested.	If there are restrictions (such as one-way streets) on roads close to the starting point or destination, the system may suggest an indirect route.	Adjust the location of the starting of the starting point or destination.
	The system may suggest an indirect route because route calculation does not take into consideration some areas such as narrow streets (gray roads.)	Reset the destination to a main or ordinary road, and recalculate the route.

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Symptom	Possible cause	Possible solution
The landmark information does not correspond to the actual information.	This may be caused by insufficient or incorrect map data.	Updated information will be included in the next version of the data.
The suggested route does not exactly connect to the starting point, waypoints, or destination.	There is no data for route calculation closes to these locations.	Set the starting point, waypoints and destination on a main road, and perform route calculation.

RELATED TO VOICE GUIDANCE

Symptom	Possible cause	Possible solution
Voice guidance is not available	Voice guidance is only available at certain intersections marked with? In some case, voice guidance is not available even when the vehicle should make a turn.	This is not a malfunction.
	The vehicle has deviated from the suggested route.	Go back to the suggested route or request route calculation again
	Voice guide is set to off.	Turn on voice guidance.
	Route guidance is set to off.	Turn on voice guidance.
The guidance contact does not correspond to the actual condition.	The contact of voice guidance may vary, depending on the types of intersections at which turn are made.	Follow all traffic rules and regulations.

RELATED TO TRAFFIC INFORMATION

Symptom	Possible cause	Possible solution
The traffic information is not displayed	The traffic information is not set to on.	Set the traffic information to on.
	You are in an area where traffic information is not available	Scroll to an area where traffic information is available
	You have not subscribed to XM NavTraffic or, your subscription to XM NavTraffic has expired.	Check your subscription status of XM NavTraffic.
	The map scale is set at a level where the display of icons is impossible.	Check that the map scale is set at a level in which the display of icons is possible.
With the automatic detour route search ON, no detour route is set to avoid congested areas.	There is no faster route compared to the current route, based on the road network and traffic information.	The automatic detour search is not intended for avoiding traffic jams. It searches for the fastest route taking into consideration such things as traffic jams.
The route does not avoid road section with traffic information stating it is closed due to road construction.	The navigation system is designed not to avoid this event because the actual period of closure may differ from the declared roadwork period.	Observe the actual road condition and follow the instructions on road for detour when necessary. If the road closure is for certain, use detour function and set the detour distance to avoid the closed road section.
Traffic information displayed differs from information from other media (e.g. radio).	Other media may use different information sources.	Observe the actual road conditions and regulations. Always observe safe driving practices and follow all traffic regulations.

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000003703417

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 AIRBAG" 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 AIRBAG".
- 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.

Precaution for Trouble Diagnosis

INFOID:000000003160761

AV COMMUNICATION SYSTEM

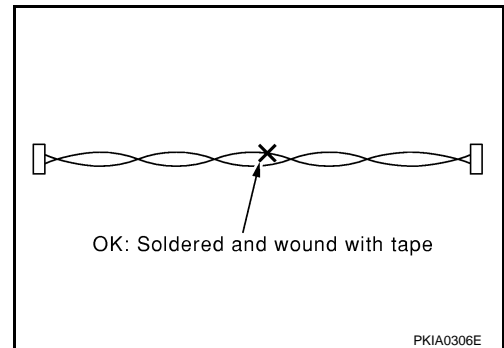
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

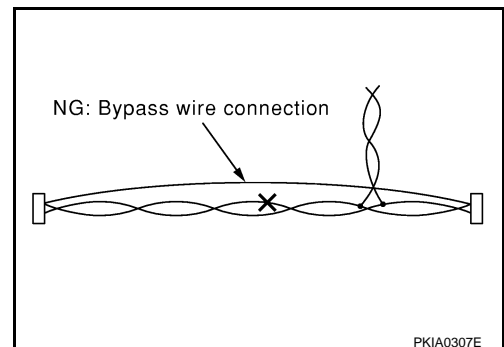
INFOID:000000003160762

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.)



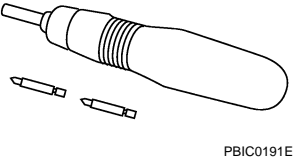
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PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000003160763

Tool name	Description
<p>Power tool</p>  <p>PBIC0191E</p>	<p>Loosening screws</p>

ON-VEHICLE REPAIR

AV CONTROL UNIT

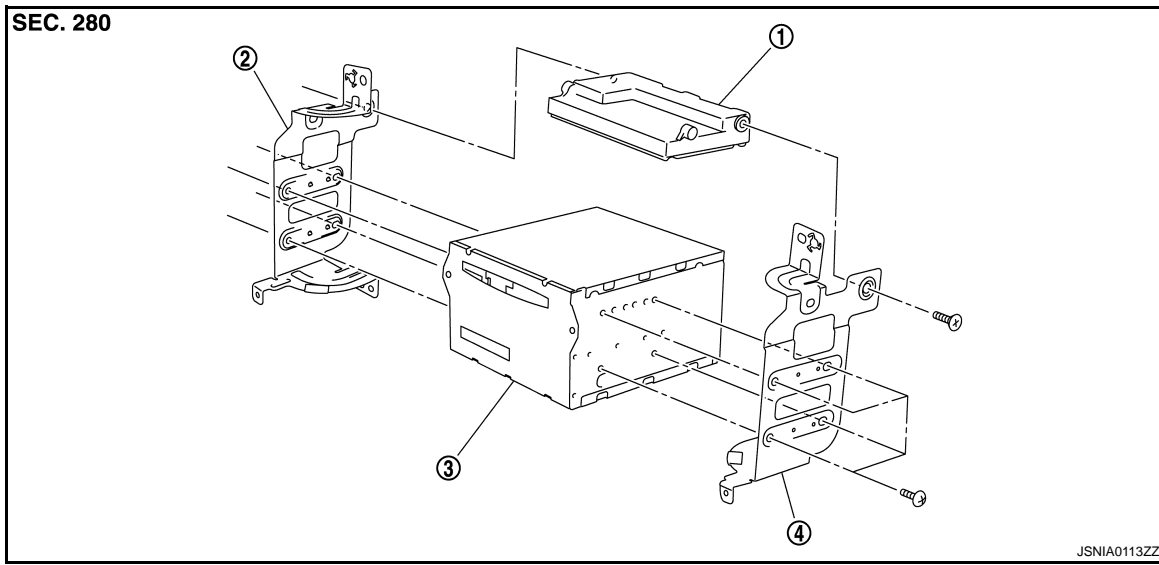
Exploded View

INFOID:000000003160764

REMOVAL

Refer to [IP-11, "Exploded View"](#).

DISASSEMBLY



- 1. Unified meter and A/C amp.
- 2. Bracket LH
- 3. AV control unit
- 4. Bracket RH

Removal and Installation

INFOID:000000003160765

REMOVAL

1. Remove display unit.
2. Remove AV control unit with a unified meter and A/C amp. as a single unit from the body.
3. Remove bracket screws, and then remove AV control unit.

INSTALLATION

Installation is the reverse order of removal.

CAUTION:

Since AV control unit connector and unified meter and A/C amp. connector have the same form, be careful not to insert them wrongly.

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AV

DISPLAY UNIT

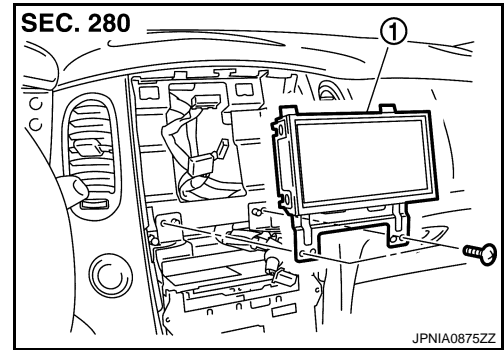
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

DISPLAY UNIT

Exploded View

INFOID:000000003160766



1. Display unit

Removal and Installation

INFOID:000000003160767

REMOVAL

1. Remove cluster lid D. Refer to [JP-11, "Exploded View"](#).
2. Remove display unit mounting screws.
3. Remove display unit.

INSTALLATION

Installation is the reverse order of removal.

FRONT DOOR SPEAKER

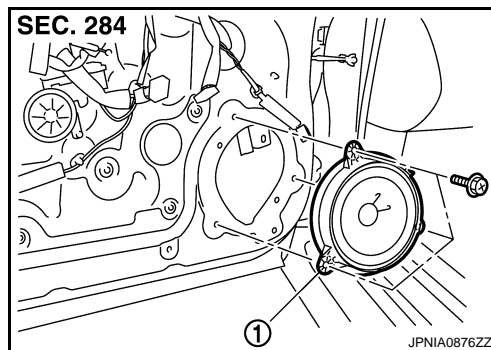
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

FRONT DOOR SPEAKER

Exploded View

INFOID:000000003160768



1. Front door speaker

Removal and Installation

INFOID:000000003160769

REMOVAL

1. Remove front door finisher. Refer to [INT-11. "DRIVER SIDE : Exploded View"](#) (driver side) or [INT-14. "PASSENGER SIDE : Exploded View"](#) (passenger side).
2. Remove front door speaker mounting bolts, disconnect the front door speaker connector.
3. Remove front door speaker.

INSTALLATION

Installation is the reverse order of removal.

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AV

REAR DOOR SPEAKER

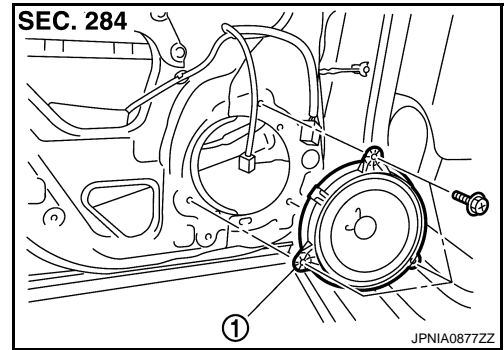
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

REAR DOOR SPEAKER

Exploded View

INFOID:000000003160772



1. Rear door speaker

Removal and Installation

INFOID:000000003160773

REMOVAL

1. Remove rear door finisher. Refer to [JNT-17. "Exploded View"](#).
2. Remove rear door speaker mounting bolts, disconnect the rear door speaker connector.
3. Remove rear door speaker.

INSTALLATION

Installation is the reverse order of removal.

FRONT SQUAWKER

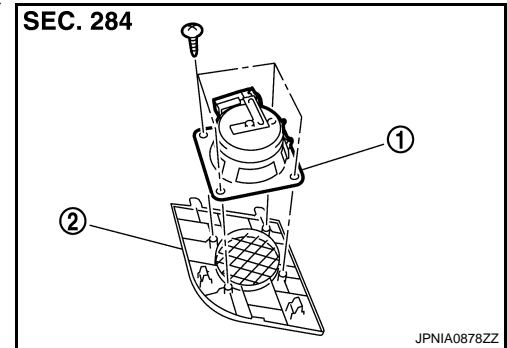
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

FRONT SQUAWKER

Exploded View

INFOID:000000003569907



1. Front squawker
2. Speaker grille

Removal and Installation

INFOID:000000003569908

REMOVAL

1. Lift up the speaker grille with squawker. Refer to [IP-11. "Exploded View"](#).
2. Disconnect the front squawker connector.
3. Remove front squawker mounting screws.
4. Remove front squawker.

INSTALLATION

Installation is the reverse order of removal.

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REAR SQUAWKER

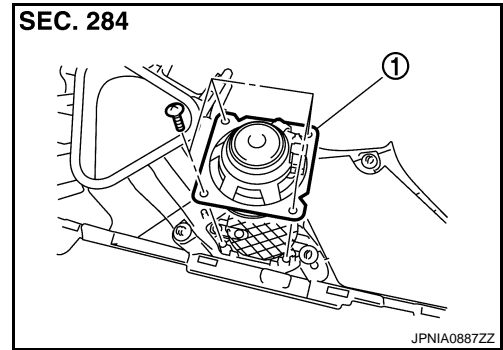
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

REAR SQUAWKER

Exploded View

INFOID:000000003569909



1. Rear squawker

Removal and Installation

INFOID:000000003569910

REMOVAL

1. Remove luggage side finisher upper. Refer to [INT-34, "Exploded View"](#).
2. Remove rear squawker mounting screws.
3. Remove rear squawker.

INSTALLATION

Installation is the reverse order of removal.

CENTER SPEAKER

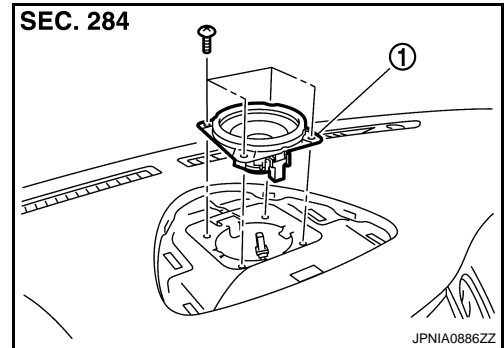
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

CENTER SPEAKER

Exploded View

INFOID:000000003160776



1. Center speaker

Removal and Installation

INFOID:000000003160777

REMOVAL

1. Remove center speaker grille. Refer to [IP-11, "Exploded View"](#).
2. Remove center speaker mounting screws, lift up the center speaker and disconnect center speaker connector.
3. Remove center speaker.

INSTALLATION

Installation is the reverse order of removal.

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AV

WOOFER

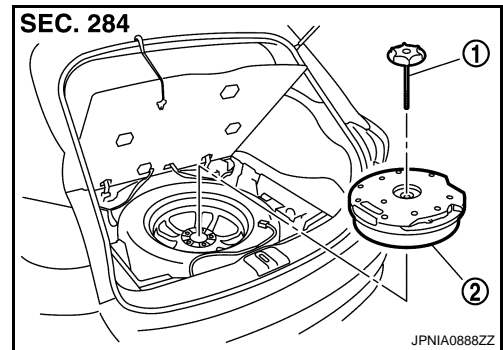
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

WOOFER

Exploded View

INFOID:000000003160778



1. Woofer clamp
2. Woofer

Removal and Installation

INFOID:000000003160779

REMOVAL

1. Remove Luggage finisher center. Refer to [INT-34. "Exploded View"](#).
2. Remove woofer clamp.
3. Remove harness clip and woofer connector.
4. Remove woofer.

INSTALLATION

Installation is the reverse order of removal.

BOSE AMP.

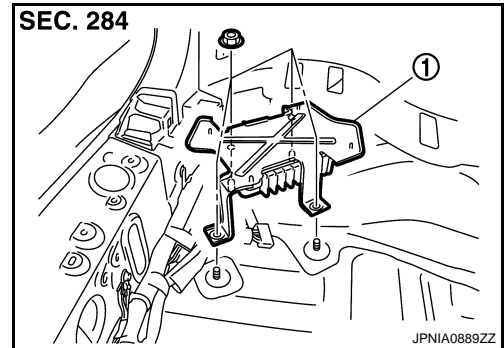
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

BOSE AMP.

Exploded View

INFOID:000000003160780



1. BOSE amp.

Removal and Installation

INFOID:000000003160781

REMOVAL

1. Remove Luggage floor spacer (LH). Refer to [INT-34. "Exploded View"](#).
2. Remove BOSE amp. mounting nuts.
3. Remove BOSE amp..

INSTALLATION

Installation is the reverse order of removal.

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ANTENNA BASE

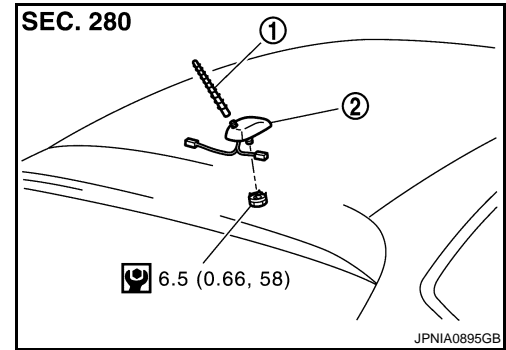
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

ANTENNA BASE

Exploded View

INFOID:000000003160782



1. Antenna rod
2. Antenna base

Refer to [GI-4. "Components"](#) for symbols in the figure..

Removal and Installation

INFOID:000000003160783

REMOVAL

1. Remove headlining (rear). Keep a service area. Refer to [INT-26. "NORMAL ROOF : Exploded View"](#) (normal roof) or [INT-30. "SUNROOF : Exploded View"](#) (sunroof).
2. Remove antenna base mounting nut.
3. Remove antenna base.

INSTALLATION

Installation is the reverse order of removal.

Antenna base mounting nut : 6.5 N·m (0.66 kg·m, 58 in·lb)

CAUTION:

Be careful about tightening torque. Antenna sensitivity becomes poor, and when it is excessive, roof panel may be deformed, when roof antenna mounting nut tightening torque is loose.

MULTIFUNCTION SWITCH

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

MULTIFUNCTION SWITCH

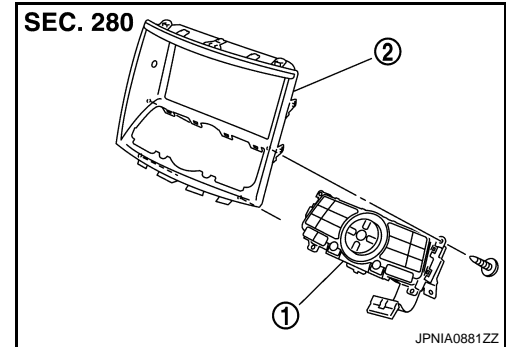
Exploded View

INFOID:000000003160786

REMOVAL

Refer to [IP-11, "Exploded View"](#).

DISASSEMBLY



1. Multifunction switch
2. Cluster lid D

Removal and Installation

INFOID:000000003160787

REMOVAL

1. Remove cluster lid D. Refer to [IP-11, "Exploded View"](#).
2. Remove multifunction switch mounting screws.
3. Remove multifunction switch.

INSTALLATION

Installation is the reverse order of removal.

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PRESET SWITCH

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

PRESET SWITCH

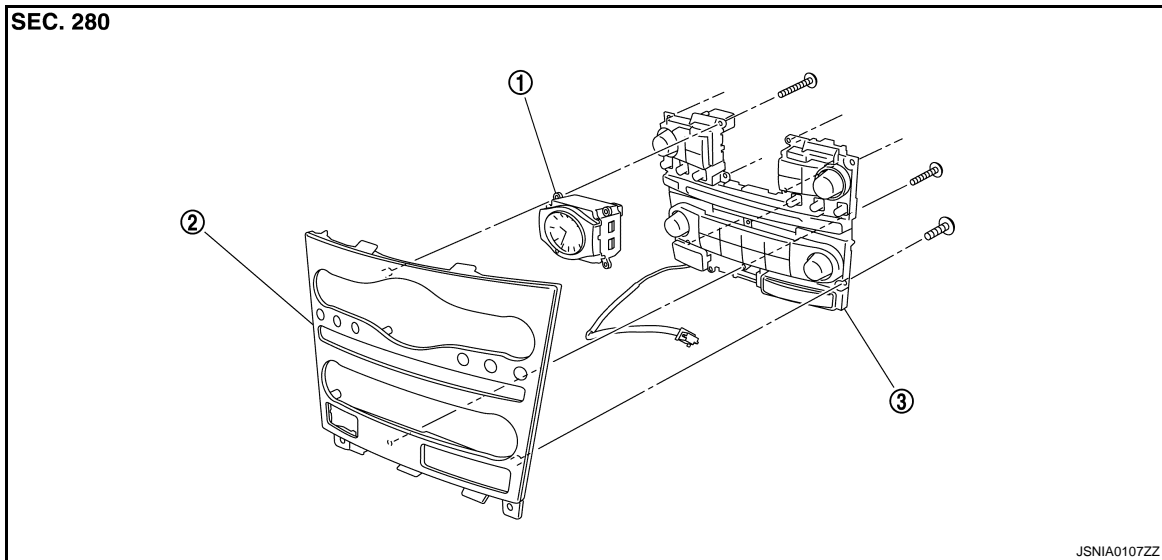
Exploded View

INFOID:000000003160788

REMOVAL

Refer to [IP-11, "Exploded View"](#).

DISASSEMBLY



1. Clock

2. Cluster lid C

3. Preset switch

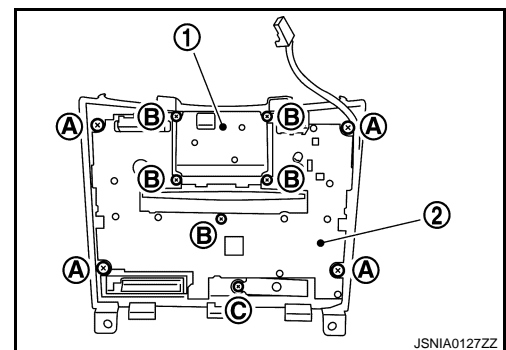
Removal and Installation

INFOID:000000003160789

REMOVAL

1. Remove cluster lid C. Refer to [IP-11, "Exploded View"](#).
2. Remove preset switch mounting screws.
3. Remove preset switch.

1. Clock
2. Preset switch
- A. Screw
- B. Screw
- C. Screw



INSTALLATION

Installation is the reverse order of removal.

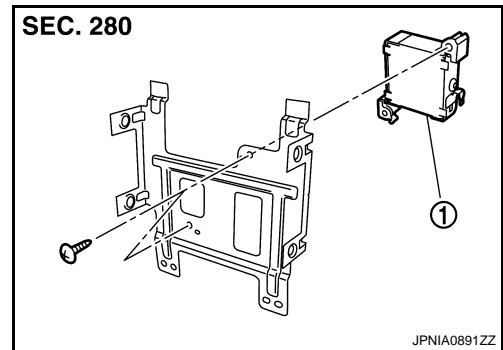
NOTE:

When installing preset switch, do not allow the print wire that connects preset switch and multifunction switch to get caught in between AV control unit and preset switch.

IPOD ADAPTER

Exploded View

INFOID:000000003567026



1. iPod adapter

Removal and Installation

INFOID:000000003567027

REMOVAL

1. Remove display unit with bracket. Refer to [IP-11, "Exploded View"](#).
2. Remove display from display bracket.
3. Remove iPod adapter mounting screws.
4. Remove iPod adapter.

INSTALLATION

Install in the reverse order of removal.

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< ON-VEHICLE REPAIR >

IPOD CONNECTOR

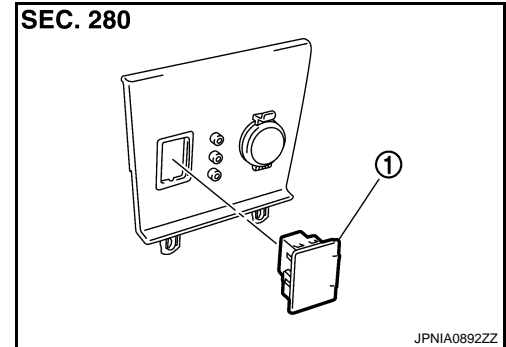
Exploded View

INFOID:000000003567029

REMOVAL

Refer to [IP-22. "Exploded View"](#).

DISASSEMBLY



1. iPod connector

Removal and Installation

INFOID:000000003567030

REMOVAL

1. Remove console finisher. Refer to [IP-22. "Exploded View"](#).
2. Push the pawl from the back of console finisher to remove iPod connector.

INSTALLATION

Install in the reverse order of removal.

AUXILIARY INPUT JACKS

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

AUXILIARY INPUT JACKS

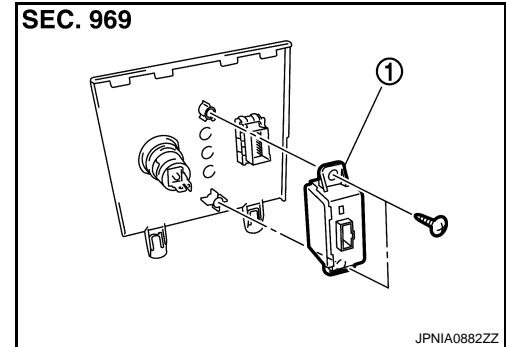
Exploded View

INFOID:000000003160794

REMOVAL

Refer to [IP-22, "Exploded View"](#).

DISASSEMBLY



1. Auxiliary input jacks

Removal and Installation

INFOID:000000003160795

REMOVAL

1. Remove console finisher. Refer to [IP-22, "Exploded View"](#).
2. Remove auxiliary mounting screws.
3. Remove auxiliary input jacks.

INSTALLATION

Installation is the reverse order of removal.

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MICROPHONE

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

MICROPHONE

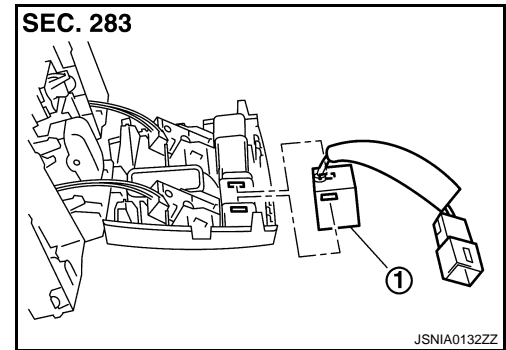
Exploded View

INFOID:000000003160796

REMOVAL

Refer to [INT-26. "NORMAL ROOF : Exploded View"](#) (normal roof) or [INT-30. "SUNROOF : Exploded View"](#) (sunroof).

DISASSEMBLY



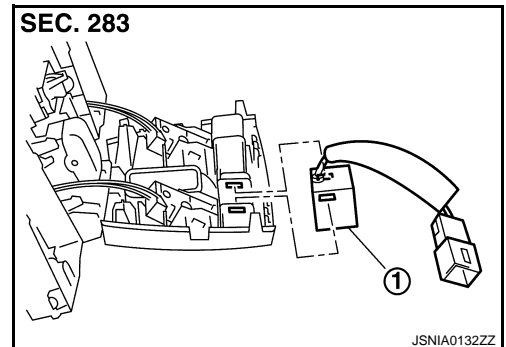
1. Microphone

Removal and Installation

INFOID:000000003160797

REMOVAL

1. Remove map lamp assembly. Refer to [INT-26. "NORMAL ROOF : Exploded View"](#) (normal roof) or [INT-30. "SUNROOF : Exploded View"](#) (sunroof).
2. Remove microphone (1), stretching pawls of map lamp assembly.



INSTALLATION

Installation is the reverse order of removal.

GPS ANTENNA

< ON-VEHICLE REPAIR >

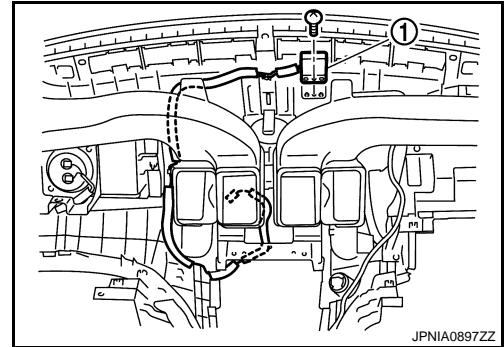
[BOSE AUDIO WITH NAVIGATION]

Removal and Installation

INFOID:000000003160800

REMOVAL

1. Remove instrument panel. Refer to [JP-11, "Exploded View"](#).
2. Remove GPS antenna mounting screw.
3. Remove GPS antenna (1).



INSTALLATION

Installation is the reverse order of removal.

CAMERA CONTROL UNIT

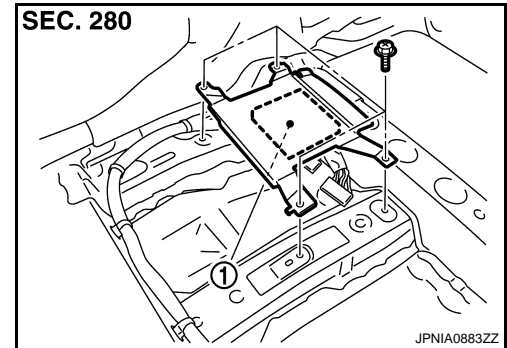
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[BOSE AUDIO WITH NAVIGATION]

CAMERA CONTROL UNIT

Exploded View

INFOID:000000003160801



1. Camera control unit

Removal and Installation

INFOID:000000003160802

REMOVAL

1. Remove front seat (LH side). Refer to [SE-87, "Exploded View"](#).
2. Remove floor carpet. Keep a service area.
3. Remove camera control unit.

INSTALLATION

1. Installation is the reverse order of removal.
2. Perform predicted course line center position adjustment. Refer to [AV-437, "PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement"](#).

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AROUND VIEW MONITOR CONTROL UNIT

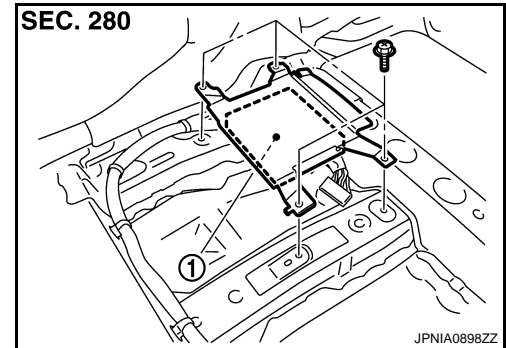
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

AROUND VIEW MONITOR CONTROL UNIT

Exploded View

INFOID:000000003528834



1. Around view monitor control unit

Removal and Installation

INFOID:000000003528835

REMOVAL

1. Remove front seat (LH side). Refer to [SE-87, "Exploded View"](#).
2. Remove floor carpet. Keep a service area.
3. Remove around view monitor control unit.

INSTALLATION

1. Installation is the reverse order of removal.
2. Perform camera image calibration. Refer to [AV-438, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Special Repair Requirement"](#).
3. Perform predicted course line center position adjustment. Refer to [AV-437, "PREDICTED COURSE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement"](#).

CAUTION:

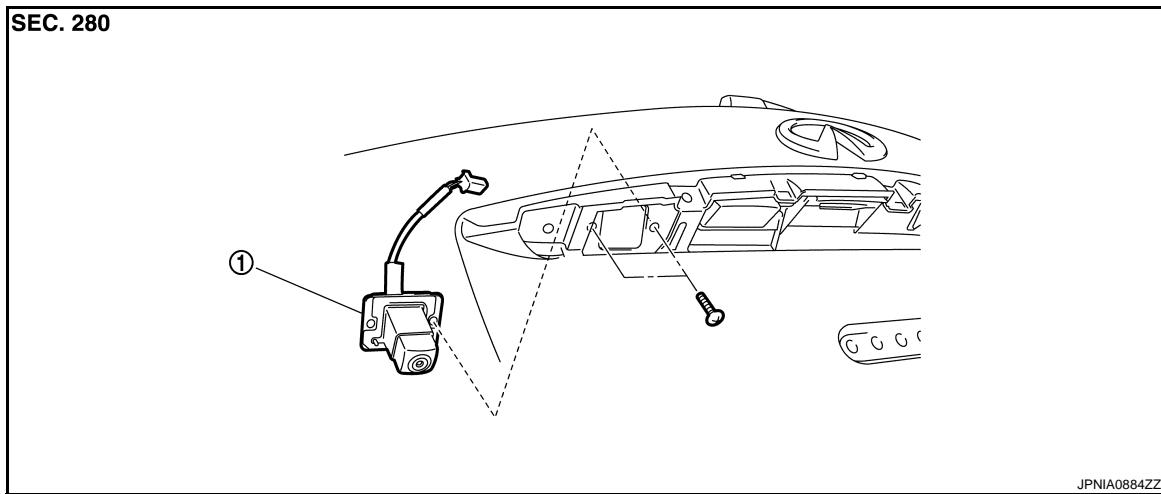
Perform the calibration and perform the writing to the around view monitor control unit when removing and replacing each camera, removing the camera mounting parts (front grille, door mirror, etc.) and replacing the around view monitor control unit.

REAR VIEW CAMERA

Exploded View

INFOID:000000003160804

DISASSEMBLY



1. Rear view camera

Removal and Installation

INFOID:000000003160805

REMOVAL

1. Remove back door finisher inner. Refer to [INT-38, "Exploded View"](#).
2. Remove back door outside finisher upper. Refer to [EXT-48, "Exploded View"](#).
3. Remove back door outside finisher lower. Refer to [EXT-48, "Exploded View"](#).
4. Remove rear view camera mounting screws and rear view camera harness connector.
5. Remove rear view camera.

INSTALLATION

1. Installation is the reverse order of removal.
2. Adjust the guide line position if the guide line position is shifted after installing the rear view camera. Refer to [AV-924, "Adjustment"](#).

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REAR VIEW CAMERA

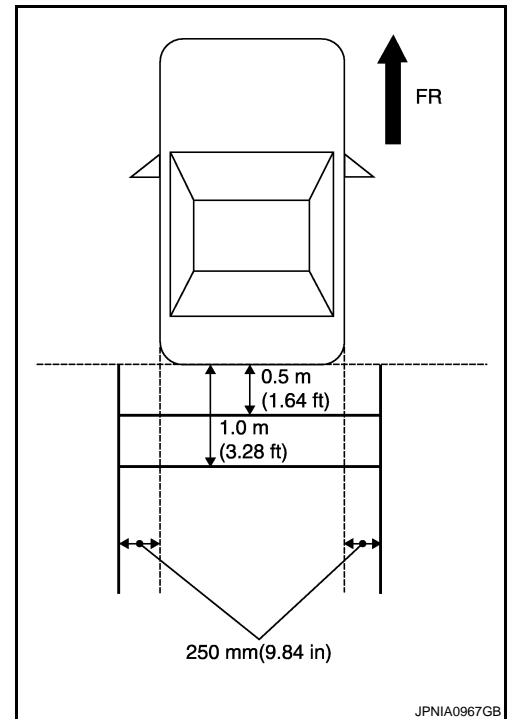
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

INFOID:000000003160806

Adjustment

1. Draw lines on rearward area of the vehicle passing through the following points: 250 mm (9.84 in) from both sides of the vehicle, and 0.5 m (1.64 ft), 1.0 m (3.28 ft) from the rear end of the bumper.
2. Set into "Adjust offset of rear view camera" mode of Confirmation/Adjustment mode.



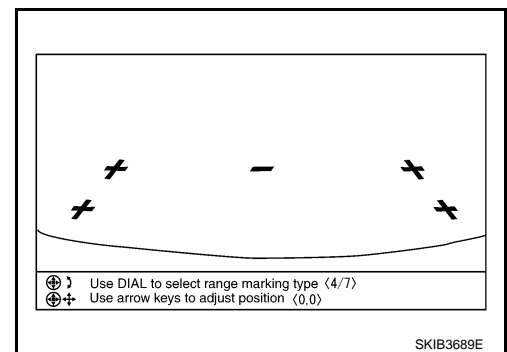
3. Rotate the center dial, and then select the guiding line pattern so that its angle is aligned with the correction line of the rear of the vehicle.

Selected pattern : 7

4. Make fine adjustment to the correction line of the rear of the vehicle with up/down/left/right switches so that its position is aligned with the guiding line. Press ""

Up/Down adjustment range : -20 - 20

Left/Right adjustment range : -20 - 20



CAUTION:

Never operate other function such as pressing BACK while writing index data.

If Confirmation/Adjustment mode does not function in the above procedure, perform one of the following service to adjust the index again.

- Remove battery for five min. Then reconnect battery.
- Remove camera control unit connector for five min. Then reconnect camera control unit connector.

FRONT CAMERA

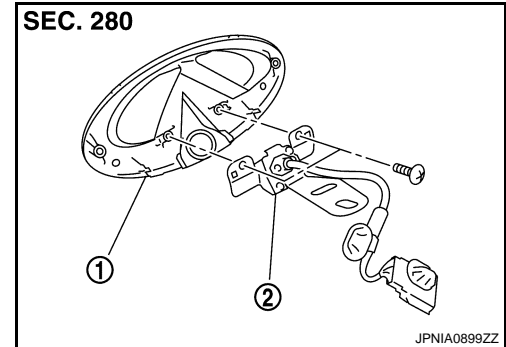
Exploded View

INFOID:000000003528825

REMOVAL

Refer to [EXT-20. "Exploded View"](#).

DISASSEMBLY



1. Front emblem
2. Front camera

Removal and Installation

INFOID:000000003528826

REMOVAL

1. Remove harness clip and connector clip from front camera bracket.
2. Remove front emblem. Refer to [EXT-20. "Exploded View"](#).
3. Remove front emblem mounting screws.
4. Remove front camera.

INSTALLATION

1. Installation is the reverse order of removal.
2. Perform camera image calibration. Refer to [AV-438. "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Special Repair Requirement"](#).

CAUTION:

Perform the calibration and perform the writing to the around view monitor control unit when removing and replacing each camera, removing the camera mounting parts (front grille, door mirror, etc.) and replacing the around view monitor control unit.

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REAR CAMERA

< ON-VEHICLE REPAIR >

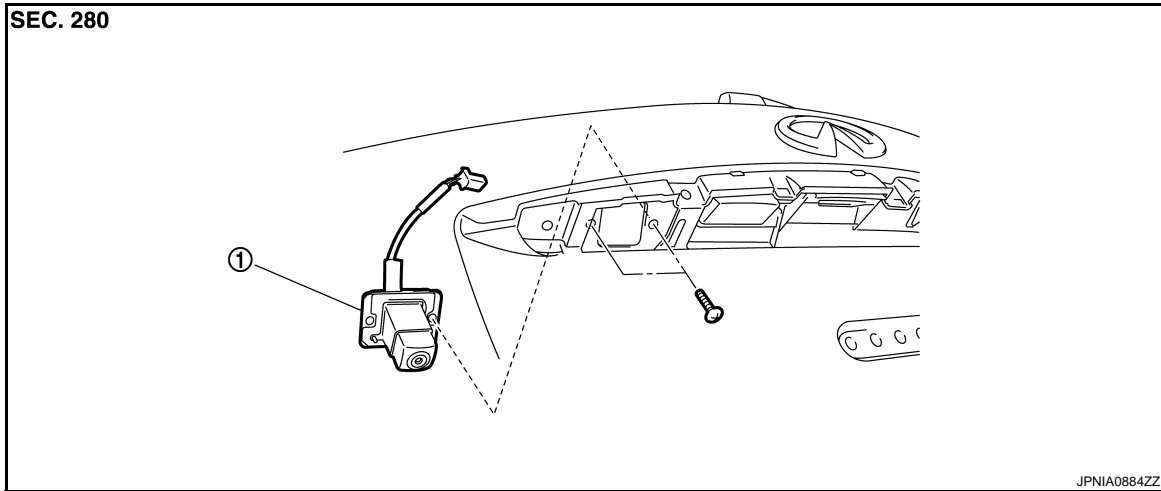
[BOSE AUDIO WITH NAVIGATION]

REAR CAMERA

Exploded View

INFOID:000000003528828

DISASSEMBLY



1. Rear view camera

Removal and Installation

INFOID:000000003528829

REMOVAL

1. Remove back door finisher inner. Refer to [INT-38, "Exploded View"](#).
2. Remove back door outside finisher upper. Refer to [EXT-48, "Exploded View"](#).
3. Remove back door outside finisher lower. Refer to [EXT-48, "Exploded View"](#).
4. Remove rear camera mounting screws and rear camera harness connector.
5. Remove rear camera.

INSTALLATION

1. Installation is the reverse order of removal.
2. Perform camera image calibration. Refer to [AV-438, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Special Repair Requirement"](#).

CAUTION:

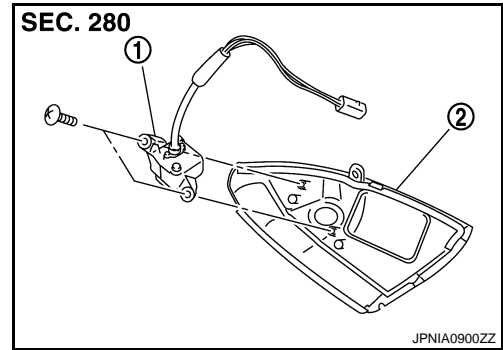
Perform the calibration and perform the writing to the around view monitor control unit when removing and replacing each camera, removing the camera mounting parts (front grille, door mirror, etc.) and replacing the around view monitor control unit.

< ON-VEHICLE REPAIR >

SIDE CAMERA LH

Exploded View

INFOID:000000003528831



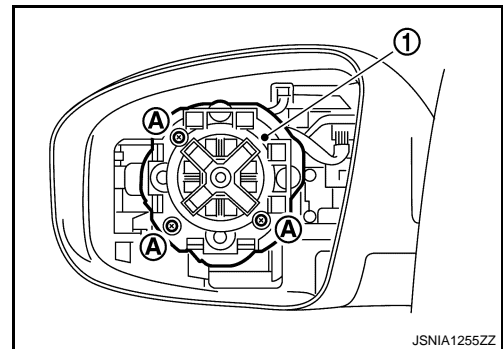
1. Side camera (LH)
2. Door mirror under cover

Removal and Installation

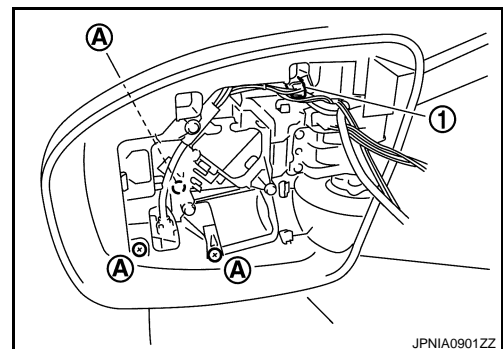
INFOID:000000003528832

REMOVAL

1. Remove door mirror glass (driver side). Refer to [MIR-53, "GLASS MIRROR : Exploded View"](#).
2. Remove screws (A), and door mirror actuator connector, and then door mirror actuator (1).



3. Remove door mirror under cover. Refer to [MIR-54, "DOOR MIRROR COVER : Exploded View"](#).
4. Remove screws (A) and connector (1), and then remove side camera (LH).



INSTALLATION

1. Installation is the reverse order of removal.
2. Perform camera image calibration. Refer to [AV-438, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Special Repair Requirement"](#).

CAUTION:

Perform the calibration and perform the writing to the around view monitor control unit when removing and replacing each camera, removing the camera mounting parts (front grille, door mirror, etc.) and replacing the around view monitor control unit.

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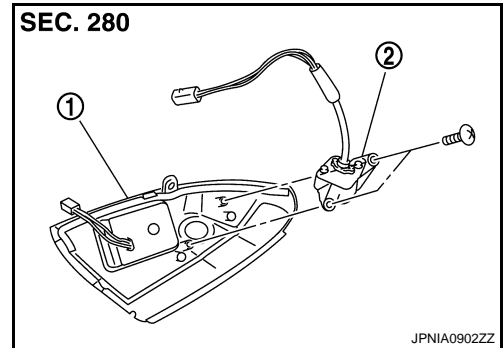
AV

< ON-VEHICLE REPAIR >

SIDE CAMERA RH

Exploded View

INFOID:000000003567094



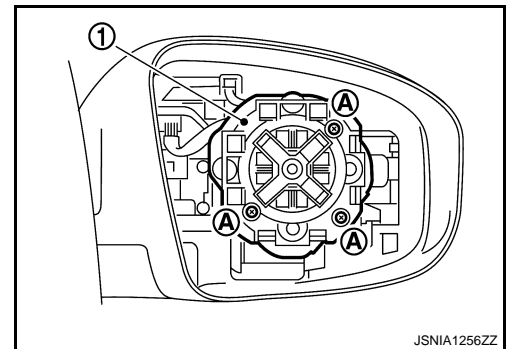
1. Side camera (RH)
2. Side camera lamp assembly

Removal and Installation

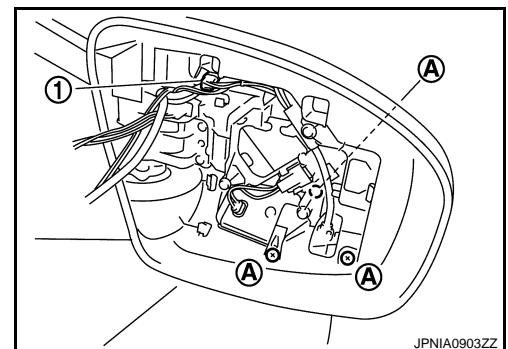
INFOID:000000003567095

REMOVAL

1. Remove door mirror glass (passenger side). Refer to [MIR-53. "GLASS MIRROR : Exploded View"](#).
2. Remove screws (A) and door mirror actuator connector, and then door mirror actuator (1).



3. Remove door mirror under cover. Refer to [MIR-54. "DOOR MIRROR COVER : Exploded View"](#).
4. Remove screws (A) and connector (1), and then remove side camera (RH).



INSTALLATION

1. Installation is the reverse order of removal.
2. Perform camera image calibration. Refer to [AV-438. "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Special Repair Requirement"](#).

CAUTION:

Perform the calibration and perform the writing to the around view monitor control unit when removing and replacing each camera, removing the camera mounting parts (front grille, door mirror, etc.) and replacing the around view monitor control unit.

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

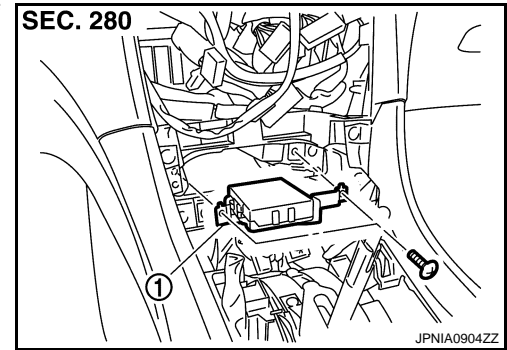
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

SONAR CONTROL UNIT (WITH AROUND VIEW MONITOR)

Exploded View

INFOID:000000003567098



1. Sonar control unit

Removal and Installation

INFOID:000000003567099

REMOVAL

1. Remove AV control unit. Refer to [AV-903, "Exploded View"](#).
2. Remove screws and connector, and then sonar control unit.

INSTALLATION

Install in the reverse order of removal.

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SONAR SENSOR

< ON-VEHICLE REPAIR >

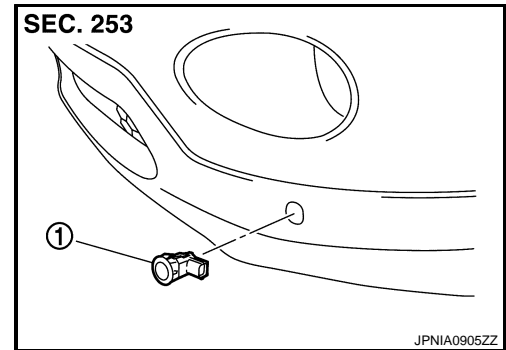
[BOSE AUDIO WITH NAVIGATION]

SONAR SENSOR

FRONT

FRONT : Exploded View

INFOID:000000003567102



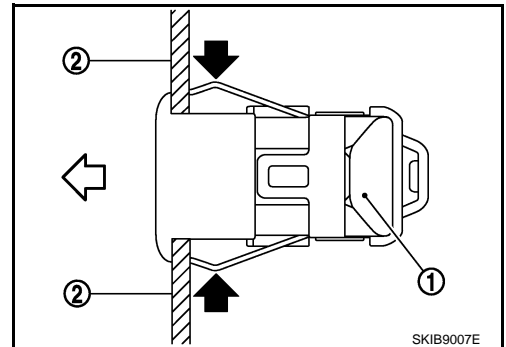
1. Sonar sensor (front)

FRONT : Removal and Installation

INFOID:000000003567103

REMOVAL

1. Remove fender protector. Keep a service area. Refer to [EXT-25, "FENDER PROTECTOR : Exploded View"](#).
2. Remove sonar sensor connector.
3. Push the sonar sensor (1) outside (direction of white arrow) the front bumper (2), pressing the metal clips on the back to the direction of black arrows.



INSTALLATION

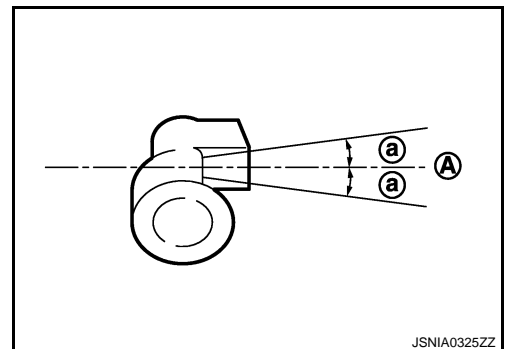
Install the bumper when the pawl engages.

CAUTION:

The connector direction is within $\pm 10^\circ$ from the horizontal position when assembling the bumper.

A : Horizontal position

a : 10°



REAR

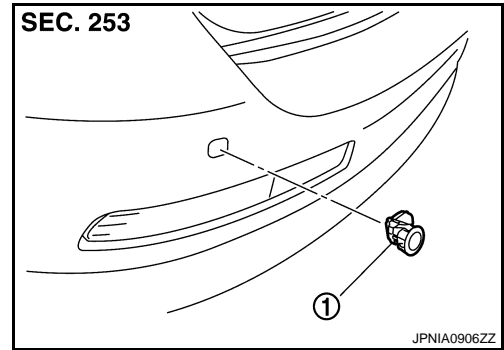
SONAR SENSOR

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

REAR : Exploded View

INFOID:000000003567104



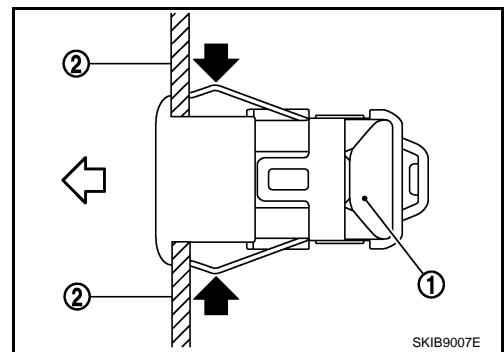
1. Sonar sensor (rear)

REAR : Removal and Installation

INFOID:000000003567105

REMOVAL

1. Remove sonar sensor connector.
2. Push the sonar sensor (1) outside (direction of white arrow) the rear bumper (2), pressing the metal clips on the back to the direction of black arrows.



INSTALLATION

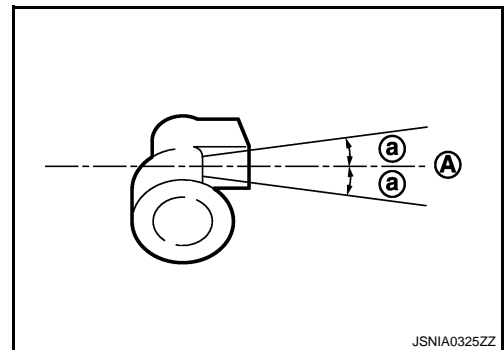
Install the bumper when the pawl engages.

CAUTION:

The connector direction is within $\pm 10^\circ$ from the horizontal position when assembling the bumper.

A : Horizontal position

a : 10°



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BUZZER

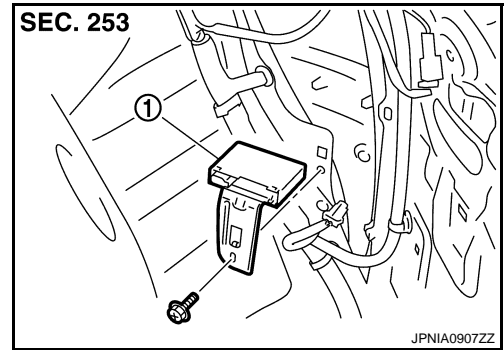
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

BUZZER

Exploded View

INFOID:000000003567106



1. Buzzer

Removal and Installation

INFOID:000000003567107

REMOVAL

1. Remove luggage side lower finisher (RH). Refer to [INT-34, "Exploded View"](#).
2. Remove buzzer mounting bolt.
3. Remove buzzer.

INSTALLATION

Install in the reverse order of removal.

STEERING ANGLE SENSOR

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

STEERING ANGLE SENSOR

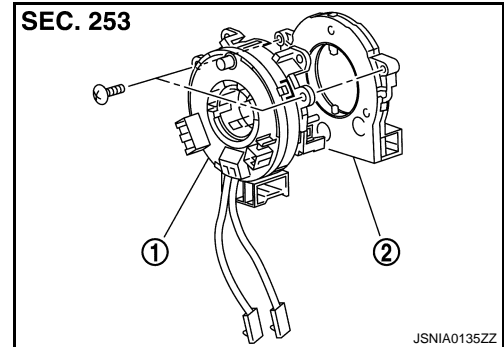
Exploded View

INFOID:000000003160807

REMOVAL

Refer to [SR-6. "Exploded View"](#).

DISASSEMBLY



1. Spiral cable
2. Steering angle sensor

Removal and Installation

INFOID:000000003160808

REMOVAL

1. Remove spiral cable.
2. Remove steering angle sensor mounting screws.
3. Remove steering angle sensor.

INSTALLATION

Installation is the reverse order of removal.

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AV

ANTENNA FEEDER

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

ANTENNA FEEDER

Harness Layout

INFOID:000000003569873

