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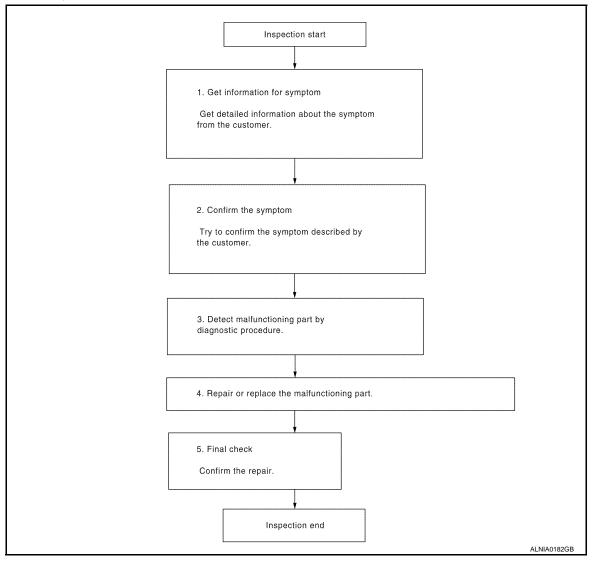
< BASIC INSPECTION > [BASE AUDIO]

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



DETAILED FLOW

1.GET INFORMATION FOR SYMPTOM

Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2

2.confirm the symptom

Try to confirm the symptom described by the customer. Verify the relation between the symptom and the condition when the symptom is detected.

>> GO TO 3

3. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION > [BASE AUDIO]

Is a malfunctioning part detected?

YES >> GO TO 4 NO >> GO TO 2

4. REPAIR OR REPLACE THE MALFUNCTIONING PART

- 1. Repair or replace the malfunctioning part.
- 2. Reconnect parts or connectors disconnected during Diagnostic Procedure.

>> GO TO 5

5. FINAL CHECK

Refer to confirmed symptom in step 2, and check that the symptom is not detected.

Has the symptom been repaired?

YES >> INSPECTION END.

NO >> GO TO 2

[BASE AUDIO]

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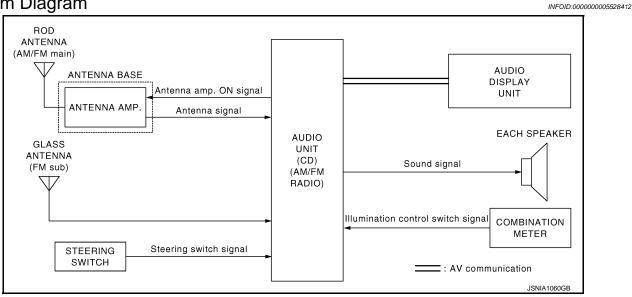
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SYSTEM DESCRIPTION

AUDIO SYSTEM

System Diagram



NOTE:

An antenna base integrated with radio antenna amp. is adopted.

System Description

INFOID:0000000005528413

AUDIO SYSTEM

The audio system consists of the following components.

- Audio unit
- Rod antenna (AM/FM main)
- Glass antenna (FM sub)
- · Steering switch
- Front door speakers
- Rear door speakers
- Front squawker
- Audio display unit

AM/FM Radio Mode

- AM/FM radio tuner is integrated into audio unit.
- When AM/FM radio waves are received by rod antenna, the radio waves are amplified by an antenna amp.
 to input them to audio unit. Sound signals are output to each speaker for the audio unit. The FM sub antenna
 is installed on the back door window glass and the audio unit is received.

CD Mode

- · The audio unit has CD function.
- The audio unit outputs sound signals to each speaker when CD is inserted into the audio unit.

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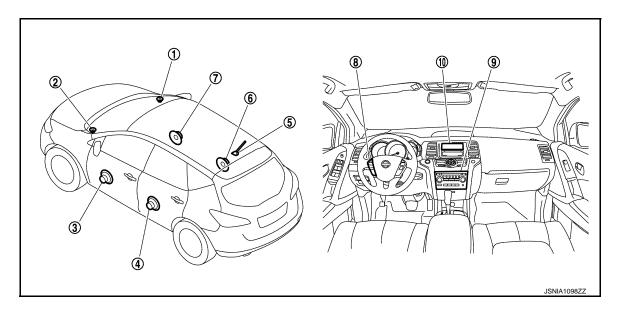
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Revision: 2009 September AV-13 2010 Murano

Component Parts Location

INFOID:0000000005528414



- 1. Front squawker RH
- 4. Rear door speaker LH
- 7. Front door speaker RH
- 10. Audio display unit

- 2. Front squawker LH
- 5. Antenna base (antenna amp.)
- 8. Steering switch

- 3. Front door speaker LH
- 6. Rear door speaker RH
- 9. Audio unit

Component Description

INFOID:0000000005528415

Part name	Description
AUDIO UNIT	Has radio function and CD playing function.Sound signals are output to each speaker.
AUDIO DISPLAY UNIT	Display images are controlled by AV communication from audio unit.
FRONT DOOR SPEAKER	Outputs sound signals from audio unit.Outputs sound (mid and low range).
REAR DOOR SPEAKER	Outputs sound signals from audio unit.Outputs sound (mid and low range).
FRONT SQUAWKER	Outputs sound signals from audio unit.Outputs sound (high and mid range).
STEERING SWITCH	Steering switch signals (operation signals) are output to audio unit.
ANTENNA BASE	An antenna base integrated with radio antenna amp. is adopted. ANTENNA AMP. Radio waves received by rod antenna are amplified and transmitted to audio unit. Power (antenna amp. ON signal) is supplied from audio unit.

DIAGNOSIS SYSTEM (AUDIO UNIT)

< SYSTEM DESCRIPTION >

[BASE AUDIO]

INFOID:0000000005528416

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DIAGNOSIS SYSTEM (AUDIO UNIT)

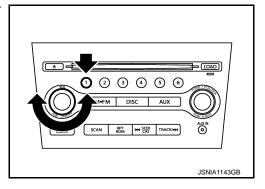
Diagnosis Description

Self-diagnosis mode can perform the following items.

- · Versions display
- Channel check diagnosis
- · Key check diagnosis
- · AV communication diagnosis

VERSIONS DISPLAY FUNCTION

- 1. Turn ignition switch ON.
- 2. Turn the audio unit off.
- 3. While pressing "1" button, turn volume control dial clockwise or counterclockwise for 30 clicks or more.



4. Diagnosis default screen of audio display unit is displayed.

NOTE:

Diagnosis default screen = All icons and segments of the audio display unit are turned on.

5. Pressing the AUDIO switch briefly displays the version display mode. Pressing the AUDIO switch briefly switches to each version display. Pressing and holding the AUDIO switch when displaying each software version returns to the diagnosis default screen.

Version display item

	Mode	Description
	Software V######	Audio unit software version is displayed.
	Hardware V#####	Audio unit hardware version is displayed.
	CD Mech V######	Audio unit CD mechanism version is displayed.
	EEPROM V#####	Audio unit EEPROM version is displayed.
Versions display	Disp SW V######	Display unit software version is displayed.
	Disp HW V#####	Display unit hardware version is displayed.
	SDARS V#####	Audio unit SDARS version is displayed. NOTE: "VFFFFFF" is displayed when SRARS is not available.

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

CHANNEL CHECK DIAGNOSIS FUNCTION

- 1. Turn ignition switch ON.
- 2. Turn the audio unit off.

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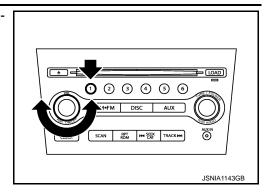
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While pressing the "1" button, turn the volume control dial clockwise or counterclockwise for 30 clicks or more.



4. The diagnosis default screen of audio display unit is displayed.

NOTE:

Diagnosis default screen = All icons and segments of the audio display unit are turned on.

5. Turning the TUNE/FOLDER dial clockwise displays the channel check mode. Pressing and holding the AUDIO switch during each channel check or waiting approximately 1 second after finishing all channel checks returns to the diagnosis default screen.

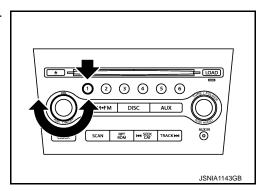
Channel	chack	itam
Channel	cneck	пет

	Mode	Description	
Channel Check Front Left			
Channel about	Channel Check Front Right		
	Channel Check Rear Right	Connection of a speaker can be confirmed by test tone.	
	Channel Check Rear Left		

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

KEY CHECK DIAGNOSIS FUNCTION

- 1. Turn ignition switch ON.
- 2. Turn the audio unit off.
- 3. While pressing the "1" button, turn the volume control dial clockwise or counterclockwise for 30 clicks or more.



4. The diagnosis default screen of audio display unit is displayed.

Diagnosis default screen = All icons and segments of the audio display unit are turned on.

5. Turning the TUNE/FOLDER dial counterclockwise displays the key check mode, and the pressed switch name is shown. Pressing and holding the AUDIO switch during the key check returns to the diagnosis default screen.

DIAGNOSIS SYSTEM (AUDIO UNIT)

< SYSTEM DESCRIPTION >

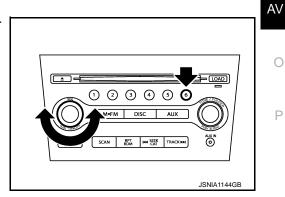
[BASE AUDIO]

Mode	Display item	Switch name	
	1	Preset button "1" switch	
	2	Preset button "2" switch	
	3	Preset button "3" switch	
	4	Preset button "4" switch	
	5	Preset button "5" switch	
	6	Preset button "6" switch	
	POWER	"ON-OFF" switch	
	VOLUME up	"VOL up" switch	
	VOLUME down	"VOL down" switch	
	AM-FM	"AM-FM" switch	
Key check	DISC	"DISC" switch	
	AUX	"AUX" switch	
	AUDIO	"AUDIO" switch	
	TUNE/FOLDER up	"TUNE/FOLDER up" switch	
	TUNE/FOLDER down	"TUNE/FOLDER up" switch	
	DISP CLOCK	"DISP CLOCK" switch	
	SCAN	"SCAN" switch	
	RPT/RDM	"RPT RDM" switch	
	SEEK/TRACK up	"SEEK CAT" switch	
	SEEK/TRACK down	"TRACK" switch	
	LOAD	"LOAD" switch	
	EJECT	"EJECT" switch	
(ey check item (steering s	witch)		
Mode	Display item	Switch name	
Key check	STR SOURCE	"SOURCE" switch	·
	STR VOL UP	"VOL up" switch	
	STR VOL DOWN	"VOL down" switch	
	STR UP	"MENU up" switch	
	STR DOWN	"MENU down" switch	

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

AV COMMUNICATION DIAGNOSIS FUNCTION

- 1. Turn ignition switch ON.
- 2. Turn the audio unit off.
- While pressing the "6" button, turn the volume control dial clockwise or counterclockwise for 30 clicks or more.



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Returns to diagnosis default screen and displays "AV DIAGNOSIS".

DIAGNOSIS SYSTEM (AUDIO UNIT)

< SYSTEM DESCRIPTION >

[BASE AUDIO]

5. Pressing the AUDIO switch briefly displays the AV communication diagnosis mode. Pressing the AUDIO switch briefly again switches to each AV communication display.

AV communication diagnosis item

Display item			Description	
AV communication item	Current	Past	Description	
TRANSMIT	OK / UN	OK / 0 -39	The communication condition and error counter from the audio unit to the audio display unit are displayed.	
DISP	OK / UN	OK / 0 -39	The communication condition and error counter from the audio display	
DISP MPDT	OK / UN	OK / 0 -39	unit to the audio unit.	
NO HISTORY BTHF	_	_	Not used.	
AV TROUBLE DEL	_	_	The error record can be deleted.	

6. Pressing the SEEK TRACK up switch displays the confirmation screen of "delete error record". Press the SEEK TRACK down switch if returning from RECORD DEL YES? to RECORD DEL NO? The item is automatically determined approximately 6 seconds after it is displayed. Then the display returns to AV TROUBLE DEL display item.

Display item	Description	
RECORD DEL NO?	Does not delete error record.	
RECORD DEL YES?	Deletes error record.	

^{7.} Self-diagnosis mode is canceled when the ignition switch is turned OFF.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

AUDIO UNIT

AUDIO UNIT: Diagnosis Procedure

INFOID:0000000005528417

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1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	35
Ignition switch ACC or ON	19

Is the inspection result normal?

YES >> GO TO 2.

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

2. CHECK POWER SUPPLY CIRCUIT

Check voltage between audio unit harness connectors and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	M46	19	OFF	Battery voltage
ACC power supply	IVI+O	7	ACC	Dattery voltage

Is the inspection result normal?

YES >> INSPECTION END

NO >> Check harness between audio unit and fuse.

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STEERING SWITCH SIGNAL A CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

STEERING SWITCH SIGNAL A CIRCUIT

Description INFOID:0000000005528418

Transmits the steering switch signal to audio unit.

Diagnosis Procedure

INFOID:0000000005528419

2010 Murano

1. CHECK STEERING SWITCH SIGNAL A CIRCUIT

- 1. Disconnect audio unit connector and spiral cable connector.
- 2. Check continuity between audio unit harness connector and spiral cable harness connector.

Audio unit		Spiral cable		Continuity
Connector	Terminal	Connector Terminal		Continuity
M46	6	M33	24	Existed

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

Audi	o unit	_	Continuity	
Connector	Terminal	_	Continuity	
M46	6	Ground	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 audio unit voltage

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

(+)		(–)	
	Audi	o unit		Voltage
Connector	Terminal	Connector	Terminal	
M46	6	M46	15	Approx 5.0 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace audio unit.

4. CHECK STEERING SWITCH

- Turn ignition switch OFF.
- Check steering switch. Refer to AV-21, "Component Inspection".

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

STEERING SWITCH SIGNAL A CIRCUIT

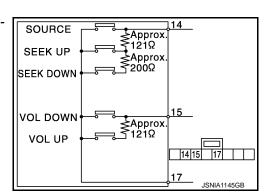
< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

INFOID:0000000005528420

Component Inspection

Measure the resistance between the steering switch connector terminals.



Standard

	Steerin	g switch			Resistance
Con- nector	Termi- nals	Con- nector	Termi- Condition	Ω	
				SEEK DOWN switch ON	315 – 327
	14		303 17	SEEK UP switch ON	119 – 123
M303	M303 M303	M303		SOURCE switch ON	0
			VOL UP switch ON	119 – 123	
	13			VOL DOWN switch ON	0

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STEERING SWITCH SIGNAL B CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

STEERING SWITCH SIGNAL B CIRCUIT

Description INFOID:000000005528421

Transmits the steering switch signal to audio unit.

Diagnosis Procedure

INFOID:0000000005528422

2010 Murano

1. CHECK STEERING SWITCH SIGNAL B CIRCUIT

- 1. Disconnect audio unit connector and spiral cable connector.
- 2. Check continuity between audio unit harness connector and spiral cable harness connector.

Audio unit		Spiral cable		Continuity
Connector	Terminal	Connector Terminal		Continuity
M46	16	M33	31	Existed

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

Audi	o unit		Continuity
Connector	Terminal		Continuity
M46	16	Ground	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 audio unit voltage

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

(+)	(-)	
	Audi	o unit		Voltage
Connector	Terminal	Connector	Terminal	
M46	16	M46	15	Approx 5.0 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace audio unit.

4. CHECK STEERING SWITCH

- 1. Turn ignition switch OFF.
- Check steering switch. Refer to <u>AV-23, "Component Inspection"</u>.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

STEERING SWITCH SIGNAL B CIRCUIT

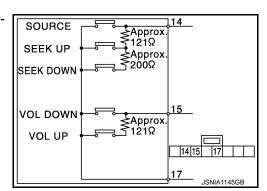
< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

INFOID:0000000005528423

Component Inspection

Measure the resistance between the steering switch connector terminals.



Standard

	Steerin	g switch			Resistance
Con- nector	Termi- nals	Con- nector	Termi- nal	Condition	Ω
				SEEK DOWN switch ON	315 – 327
14000	14			SEEK UP switch ON	119 – 123
M303		M303	17	SOURCE switch ON	0
	15			VOL UP switch ON	119 – 123
	15			VOL DOWN switch ON	0

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STEERING SWITCH SIGNAL GND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

STEERING SWITCH SIGNAL GND CIRCUIT

Description INFOID:000000005528424

Transmits the steering switch signal to audio unit.

Diagnosis Procedure

INFOID:0000000005528425

1. CHECK STEERING SWITCH SIGNAL GND CIRCUIT

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

Audi	o unit	Spira	cable	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M46	15	M33	33	Existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace spiral cable.

3. CHECK GROUND CIRCUIT

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

Audi	o unit	_	Continuity
Connector	Terminal	_	Continuity
M46	15	Ground	Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace audio unit.

4. CHECK STEERING SWITCH

- Turn ignition switch OFF.
- Check steering switch. Refer to AV-25, "Component Inspection".

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

STEERING SWITCH SIGNAL GND CIRCUIT

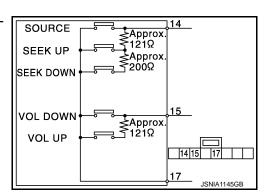
< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

INFOID:0000000005528426

Component Inspection

Measure the resistance between the steering switch connector terminals.



Standard

	Steerin	g switch			Resistance
Con- nector	Termi- nals	Con- nector	Termi- nal	Condition	Ω
				SEEK DOWN switch ON	315 – 327
	14			SEEK UP switch ON	119 – 123
M303		M303	17	SOURCE switch ON	0
	15			VOL UP switch ON	119 – 123
	15			VOL DOWN switch ON	0

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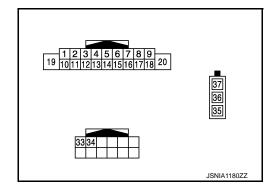
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ECU DIAGNOSIS INFORMATION

AUDIO UNIT

Reference Values

TERMINAL LAYOUT PHYSICAL VALUES



	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
2 (L)	3 (B)	Sound signal front LH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E
4 (LG)	5 (Y)	Sound signal rear LH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E
					Keep pressing SOURCE switch.	0 V
6 (W)	15 (SB)	Steering switch signal A	Input	Ignition switch	Keep pressing Δ switch.	1.0 V
(• • • • • • • • • • • • • • • • • • •	(36)			ON	Keep pressing ∇ switch.	2.0 V
					Except for above.	5.0 V
7 (R)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage
11 (BR)	12 (W)	Sound signal front RH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E

AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO]

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	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
13 (O)	14 (P)	Sound signal rear RH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E
15 (SB)	Ground	Steering switch signal ground	_	Ignition switch ON	_	0 V
				Ignition	Keep pressing VOL DOWN switch.	0 V
16 (Y)	15 (SB)	Steering switch signal B	Input	switch ON	Keep pressing VOL UP switch.	1.0 V
					Except for above.	5.0 V
19 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage
33 (G)	Ground	AV communication signal (L)	Input/ Output	_	_	_
34 (R)	Ground	AV communication signal (H)	Input/ Output	_	_	_
35	_	FM sub	Input	_	_	_
36	_	AM-FM main	Input	_	_	_
37	Ground	Antenna amp. ON signal	Output	Ignition switch ACC	_	12.0 V

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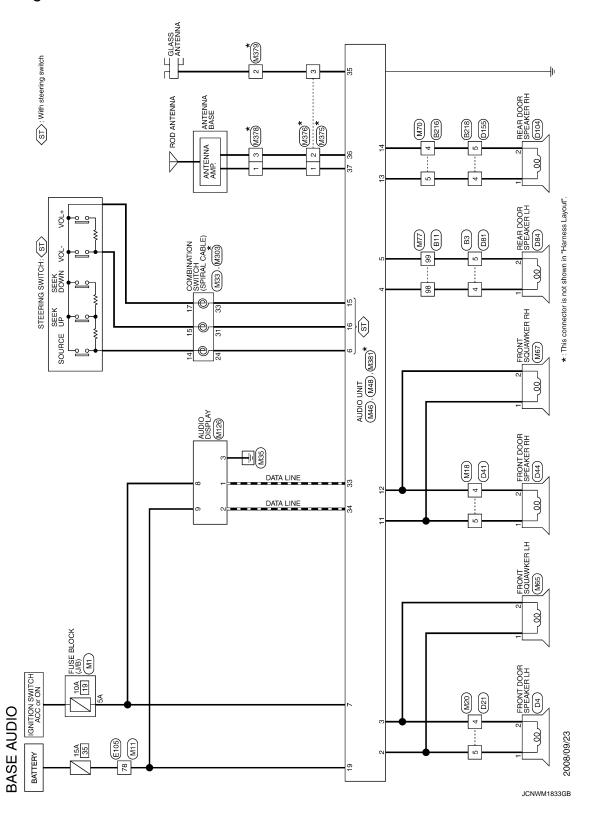
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Wiring Diagram — BASE AUDIO —

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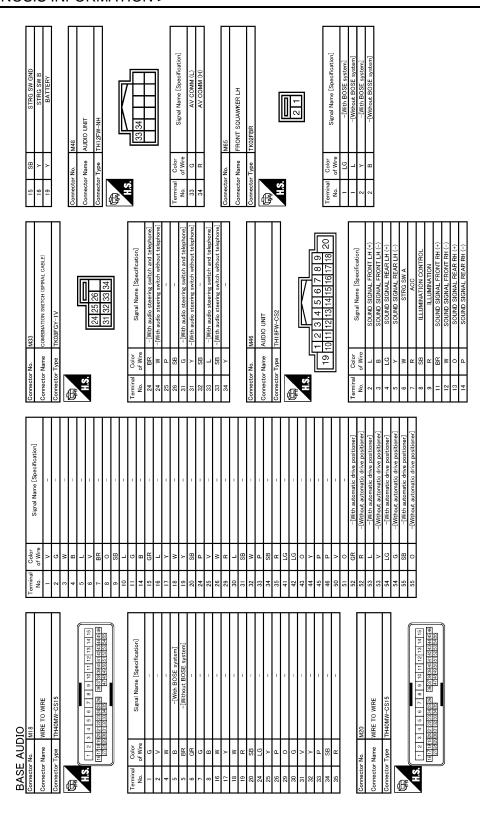
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		48 GR	-[With rear view camera and telephone]				- X
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44 W		
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10 10 10 10 10 10 10 10	Connector No. D44	
Signo V Signal Name Specification Specification Specification Specification Spec	Connector Name FRONT DOOR SPEAKER BH (WITHOUT BOSE SYSTEM)	
S2 D -[With automatic drive positioner] S3 L -[Without automatic drive positioner] S3 L -[Without automatic drive positioner] S4 S8 -[Without automatic drive positioner] S5 LG -[Without automatic drive positioner] S5 LG -[Without automatic drive positioner] S5 O -[Without automatic drive positioner] S6 O -[Without automatic drive positioner] S6 O -[Without automatic drive positioner] S6 O -[Without automatic drive positioner] Connector Name WIRE TO WIRE S6 O - S6 O - S6 O - S6 O S6 O S6 O S6 O S7 S6 O S7 S6 O S8 S8 S8 S8 S8 S8	┑	10
S2 P	Connector Type NS02FW-CS	
52 L -	á	
53 L	国	
53 P -		e
S4 SB		No. of Wire
1 1 2 -	1 0	1 L
Commetter No. D41 Commetter No. D41 Commetter No. D41 Commetter No. D41 Commetter Type TH40FW-CS15 REVERSED		2 W -
Connector No. D41 Connector Type TH40FW-CS15 Connector Type Con		
Connector No. DA1	L	I
Connector No. D41	Terminal Color Signal Name [Specification] No. of Wire	Т
Connector Name WIRE TO WIRE	t	Connector Name REAR DOOR SPEAKER RH (WITHOUT BOSE SYSTEM)
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JCNWM3158GB

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ecification]	Е
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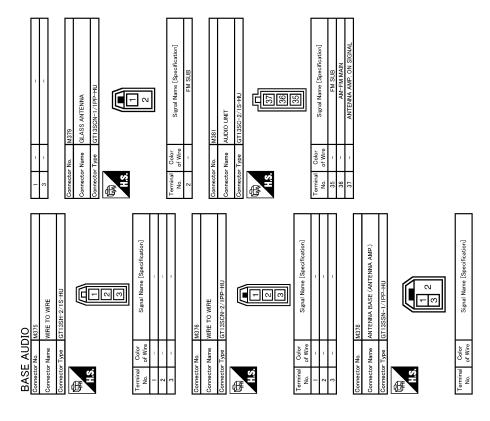
Revision: 2009 September AV-31 2010 Murano



JCNWM3160GB

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JCNWM3162GB

### **AUDIO SYSTEM SYMPTOMS**

[BASE AUDIO] < SYMPTOM DIAGNOSIS >

# SYMPTOM DIAGNOSIS

## **AUDIO SYSTEM SYMPTOMS**

Symptom Table INFOID:0000000005528429 В

#### **RELATED TO AUDIO**

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take	
Audio sound is not heard.	No sound from all speakers.	Audio unit malfunction. Refer to AV-41, "Exploded View".	
	There is no sound from one of speakers.	Sound signal malfunction between audio unit and speaker on the side where there is no sound.	
AM/FM radio is not received.	Other audio sounds are normal.	<ul><li>Antenna amp. ON signal circuit.</li><li>Antenna feeder.</li><li>Rod antenna.</li><li>Antenna base.</li></ul>	E
Audio display does not work.	_	Audio display power supply and ground circuits.     AV communication circuits between audio unit and audio display.	Γ

#### 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-24, "Diagnosis Procedure".
Only specified switch cannot be operated.	Steering switch. Refer to AV-46, "Exploded View".
"SOURCE", "MENU UP", "MENU DOWN" switches of steering switch are not operational.	Steering switch signal A circuit.  Refer to AV-20, "Diagnosis Procedure".
"VOL UP", "VOL DOWN" switches of steering switch are not operational.	Steering switch signal B circuit. Refer to AV-22, "Diagnosis Procedure".

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**AV-35** Revision: 2009 September 2010 Murano

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[BASE AUDIO]

### NORMAL OPERATING CONDITION

Description INFOID.000000005528430

#### NOTE:

- Audio operation information, refer to Owner's Manual.
- The majority of the audio concerns are the result of outside causes (bad CD, electromagnetic interference, etc.).

#### **NOISE**

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

- 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 the waves sent directly from the broadcast station arriving at the antenna at a different time from the waves that reflect off mountains or buildings.

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:

The source of the noise can be easily found by listening to the noise while removing the fuses of electrical components, one by one.

Types of Noise and Possible Causes

Occurrence condition		Possible cause
Occurs only when engine is ON.	A continuous growling noise occurs. The speed of the noise varies with changes in the engine speed.	Ignition components
The occurrence of the noise is linked with the operation of the fuel pump.		Fuel pump condenser
Noise only occurs when various electrical components are operating.	A cracking or snapping sound occurs with the operation of various switches.	Relay malfunction, audio unit malfunction
	The noise occurs when various motors are operating.	Motor case ground     Motor
The noise occurs constantly, not just under certain conditions.		<ul> <li>Rear defogger coil malfunction</li> <li>Open circuit in printed heater</li> <li>Poor ground of antenna feeder line</li> </ul>
A cracking or snapping sound occurs while the vehicle is being driven, especially when it is vibrating excessively.		<ul><li> Ground wire of body parts</li><li> Ground due to improper part installation</li><li> Wiring connections or a short circuit</li></ul>

< PRECAUTION > [BASE AUDIO]

# **PRECAUTION**

# PRECAUTIONS FOR USA AND CANADA

FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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

#### **WARNING:**

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

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

#### **WARNING:**

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

FOR USA AND CANADA: Precaution for Trouble Diagnosis

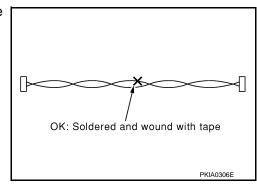
#### AV COMMUNICATION SYSTEM

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

FOR USA AND CANADA: Precaution for Harness Repair

#### AV COMMUNICATION SYSTEM

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



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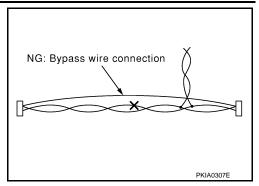
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### **PRECAUTIONS**

< PRECAUTION > [BASE AUDIO]

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



### FOR MEXICO

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

#### **WARNING:**

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

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

#### **WARNING:**

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

FOR MEXICO: Precaution for Trouble Diagnosis

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### 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 at 7.0 V or less.
- Turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

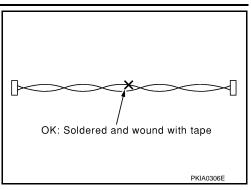
FOR MEXICO: Precaution for Harness Repair

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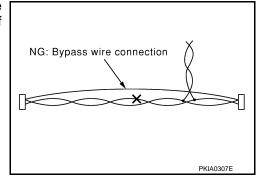
AV COMMUNICATION SYSTEM

< PRECAUTION > [BASE AUDIO]

• 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 > [BASE AUDIO]

# **PREPARATION**

# **PREPARATION**

# **Commercial Service Tools**

INFOID:0000000005528434

Tool name		Description
Power tool	PBIC0191E	Loosening screws

### [BASE AUDIO]

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# REMOVAL AND INSTALLATION

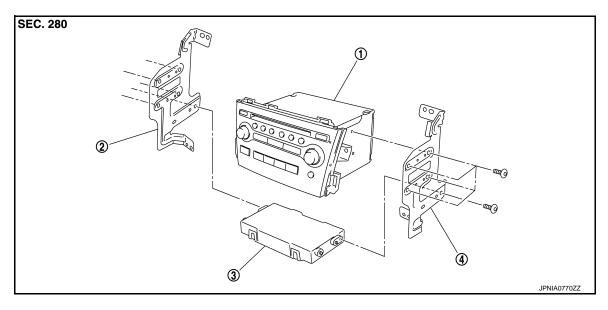
# **AUDIO UNIT**

Exploded View

**REMOVAL** 

Refer to IP-12, "Exploded View".

**DISASSEMBLY** 



1. Audio unit

2. Bracket LH

3. A/C auto amp.

4. Bracket RH

### Removal and Installation

INFOID:0000000005528436

### **REMOVAL**

- 1. Remove cluster lid C lower. Refer to IP-12, "Exploded View".
- 2. Remove instrument stay cover LH and instrument stay cover RH Refer to IP-12, "Exploded View".
- 3. Remove audio unit with an A/C auto amp. as a single unit from the body.
- 4. Remove bracket screws, and then remove audio unit.

#### **INSTALLATION**

Install in the reverse order of removal.

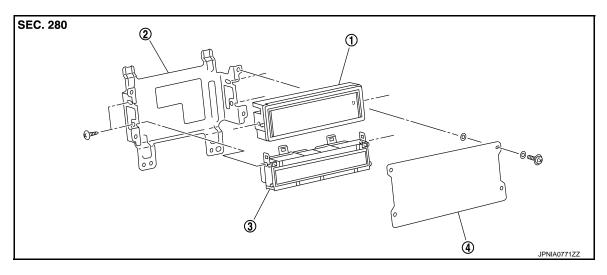
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# **AUDIO DISPLAY**

Exploded View



- 1. Audio display unit
- 4. Front cover
- 2. Bracket

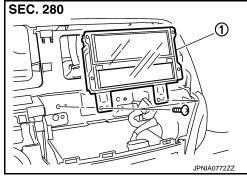
3. A/C display

### Removal and Installation

INFOID:0000000005528438

#### **REMOVAL**

- Remove center ventilator assembly. Refer to <u>IP-12, "Exploded View"</u>.
- 2. Remove audio display unit and A/C display with bracket as a single unit (1).
- 3. Remove bracket screws, and then remove audio display unit.



#### **INSTALLATION**

Install in the reverse order of removal.

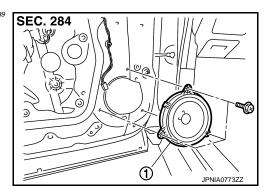
[BASE AUDIO]

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# FRONT DOOR SPEAKER

**Exploded View** 

INFOID:0000000005528439



. Front door speaker

### Removal and Installation

### REMOVAL

- 1. Remove front door finisher. Refer to INT-12, "FRONT DOOR FINISHER: Exploded View".
- Remove front door speaker screws, then disconnect front door speaker connector and remove front door speaker.

#### **INSTALLATION**

Install in the reverse order of removal.

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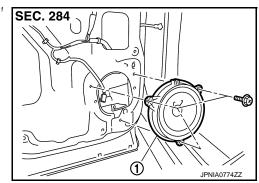
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# **REAR DOOR SPEAKER**

# **Exploded View**

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Rear door speaker

### Removal and Installation

INFOID:0000000005528442

#### **REMOVAL**

- 1. Remove rear door finisher. Refer to INT-16, "REAR DOOR FINISHER: Exploded View".
- Remove rear door speaker screws, then disconnect rear door speaker connector and remove rear door speaker.

### **INSTALLATION**

Install in the reverse order of removal.

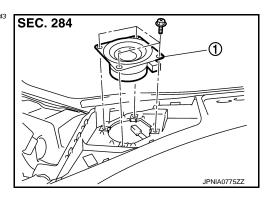
[BASE AUDIO]

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# **FRONT SQUAWKER**

**Exploded View** 

INFOID:0000000005528443



. Front squawker

### Removal and Installation

REMOVAL

- 1. Remove speaker grille. Refer to <a href="IP-12">IP-12</a>, "Exploded View".
- 2. Remove front squawker screws, lift up the front squawker and disconnect front squawker connector. Then remove the front squawker.

#### **INSTALLATION**

Install in the reverse order of removal.

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### **STEERING SWITCH**

< REMOVAL AND INSTALLATION > [BASE AUDIO]

STEERING SWITCH

Exploded View

Refer to ST-17, "Exploded View".

Removal and Installation

**REMOVAL** 

Refer to ST-17, "Exploded View".

**INSTALLATION** 

Install in the reverse order of removal.

[BASE AUDIO]

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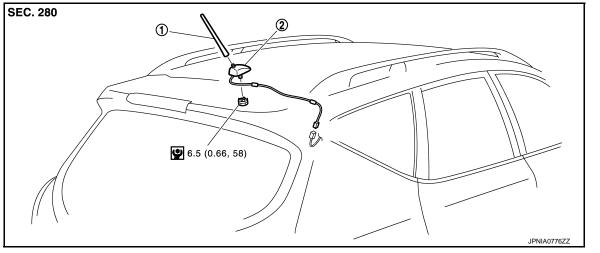
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### **ROOF ANTENNA**

**Exploded View** 



1. Rod antenna

Antenna base

Refer to GI-4. "Components" for symbols in the figure.

### Removal and Installation

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#### **REMOVAL**

- Remove headlining assembly (rear) to secure work space between vehicle and headlining. Refer to <u>INT-26</u>, "NORMAL ROOF: Exploded View" [without sunroof] or <u>INT-30</u>, "SUNROOF: Exploded View" [with sunroof].
- Disconnect AM/FM main connector.
- 3. Remove antenna base nut, and then remove antenna base from roof panel.

#### **INSTALLATION**

Install in 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. When the antenna base mounting nut tightening torque is loose, the antenna sensitivity becomes poor, and when it is excessive, the roof panel may be deformed.

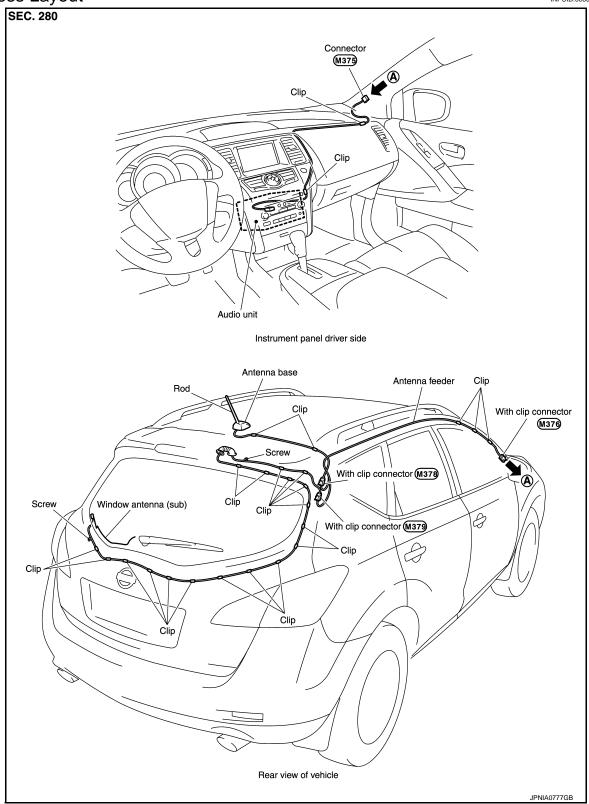
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# ANTENNA FEEDER (RADIO)

Harness Layout



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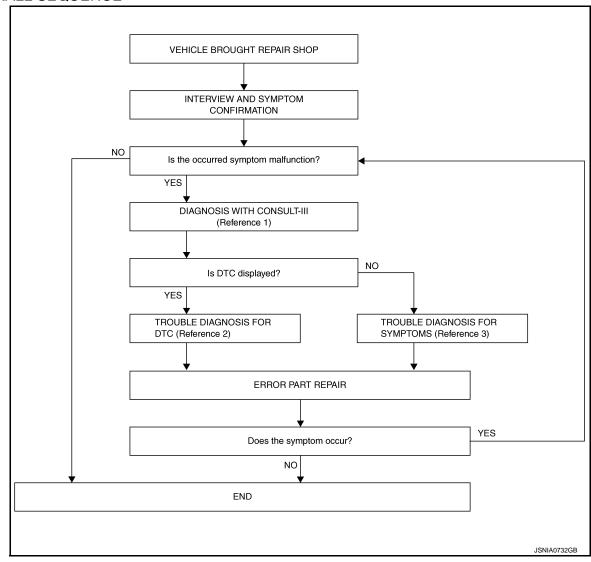
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# **BASIC INSPECTION**

## DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

### **OVERALL SEQUENCE**



- Reference 1... Refer to <u>AV-87, "CONSULT-III Function (MULTI AV)"</u>.
- Reference 2··· Refer to <u>AV-197</u>, "<u>DTC Index</u>".
- Reference 3... Refer to AV-520, "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 occurring symptom a malfunction?

YES >> GO TO 2.

NO >> INSPECTION END

2.DIAGNOSIS WITH CONSULT-III

### **DIAGNOSIS AND REPAIR WORK FLOW**

#### < BASIC INSPECTION >

#### [BOSE AUDIO WITHOUT NAVIGATION]

1. Connect CONSULT-III and perform a self-diagnosis for "MULTI AV". Refer to AV-87, "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.
- Perform the relevant diagnosis referring to the DTC Index. Refer to <u>AV-197, "DTC Index"</u>.

>> GO TO 5.

# 4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to <u>AV-520, "Symptom Table"</u>.

>> 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 >

>> END

[BOSE AUDIO WITHOUT NAVIGATION]

INSPECTION AND ADJUSTMENT	٨
ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL	Α
ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description	В
Always correct the center position of the rear view monitor's possible route line after disconnecting the battery negative terminal.	С
ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement	D
${f 1.}$ CORRECTION OF CENTER POSITION OF REAR VIEW MONITOR'S POSSIBLE ROUTE LINE	
Refer to the following for details.	Е
>> Refer to AV-51, "REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUSTMENT: Special Repair Requirement".  ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT	F
ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description	G
When camera control unit is replaced, the center position of rear view monitor possible route line is corrected.  ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement	Н
1. CORRECTION OF CENTER POSITION OF REAR VIEW MONITOR'S POSSIBLE ROUTE LINE	I
Refer to the following for details.	
>> Refer to AV-51, "REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUSTMENT: Special Repair Requirement".	J
REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUST-MENT	K
REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUST- MENT: Description	L
Adjust the center position of the possible route line of the rear view monitor if it is shifted.  REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUST- MENT: Special Repair Requirement	M
1.STEERING OPERATION	
Steer the steering wheel to the leftmost and rightmost positions.	0
>> GO TO 2 2.DRIVING	Р
Drive the vehicle straight ahead 100 m (328.1 ft) or more at a speed of 30 km/h (18.6 MPH) or more.	

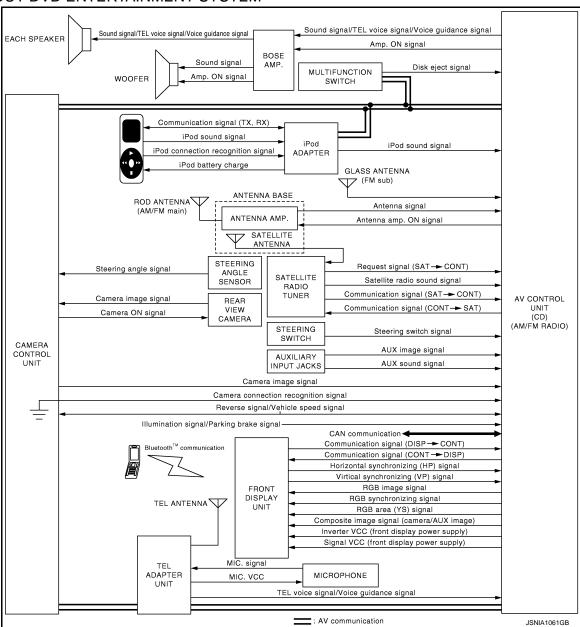
Revision: 2009 September AV-51 2010 Murano

# SYSTEM DESCRIPTION

### **MULTI AV SYSTEM**

System Diagram

#### WITHOUT DVD ENTERTAINMENT SYSTEM



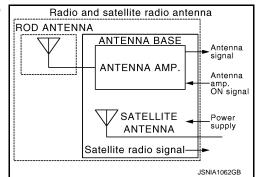
#### NOTE:

- Woofer, illustrated in the above figure, integrates two woofers and a woofer amp.
- In this section, PRESET SWITCH and MULTIFUNCTION SWITCH are written as the MULTIFUNCTION SWITCH.

### < SYSTEM DESCRIPTION >

### [BOSE AUDIO WITHOUT NAVIGATION]

 An antenna base integrated with radio antenna amp. and satellite radio antenna is adopted.



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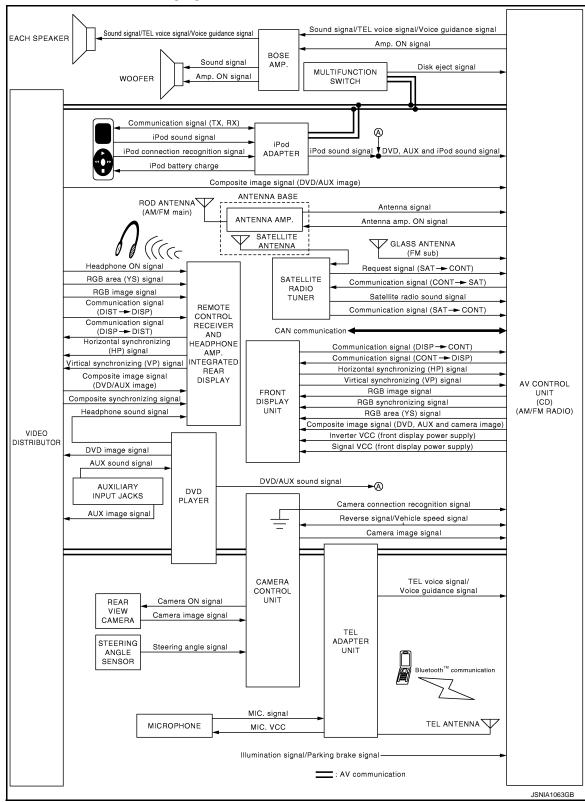
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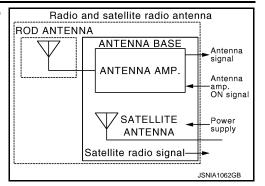
#### WITH DVD ENTERTAINMENT SYSTEM



#### NOTE:

- Woofer, illustrated in the above figure, integrates two woofers and a woofer amp.
- In this section, PRESET SWITCH and MULTIFUNCTION SWITCH are written as the MULTIFUNCTION SWITCH.

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



# System Description

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MULTI AV system means that the following systems are integrated.

System name	System explanation
AUDIO SYSTEM	AV-64, "System Description"
REAR VIEW MONITOR SYSTEM	AV-61, "System Description"
DVD ENTERTAINMENT SYSTEM	AV-68, "System Description"
HANDS-FREE PHONE SYSTEM	AV-71, "System Description"
VEHICLE INFORMATION SYSTEM	<ul> <li>Indicates the status of audio, climate control system, fuel economy and maintenance.</li> <li>AV control unit displays the fuel consumption status while receiving data signals through CAN communication from ECM, combination meter and BCM.</li> </ul>
AUXILIARY INPUT SYSTEM	Refer to "AUXILIARY INPUT SYSTEM" shown below.

- AV control unit functions by transmitting/receiving data one by one with each unit (slave unit) that configures
  them completely as a master unit by connecting between units that configure MULTI AV system with two AV
  communication lines (H, L).
- Two AV communication lines (H, L) adopt a twisted pair line that is resistant to noise.
- AV control unit is connected by CAN communication, and it receives data signals from ECM and combination meter. It computes and displays fuel economy information value with the obtained information. Transmitting/receiving of data signals are performed by BCM. Also, it transmits the required signal of vehicle setting and receives the response signal.
- AV control unit is connected with front display unit and serial communication, and it transmits the required signal of display and display control and receives the response signal from front display unit. It is also connected with satellite radio by serial communication, 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 <u>AV-87, "CONSULT-III Function (MULTI AV)"</u>.
- On board self-diagnosis: refer to <u>AV-74, "Diagnosis Description"</u>.

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

Refer to <u>AV-91</u>, "<u>Diagnosis Description</u>" 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 by AV communication.

#### Without DVD Entertainment System

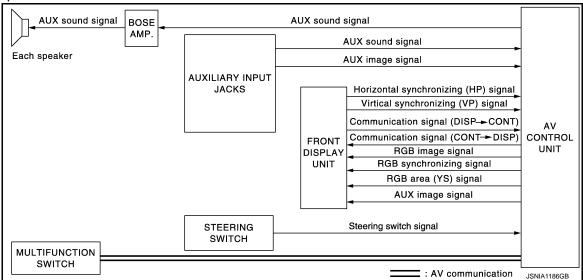
The AUX image signal is input from the auxiliary input jacks to the AV control unit. The AV control unit outputs AUX image signal to the front display unit.

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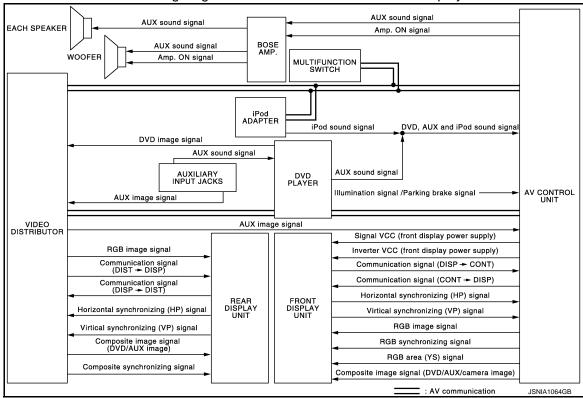
Revision: 2009 September AV-55 2010 Murano

The AUX sound signal is input from the auxiliary input jacks to the AV control unit. The AV control unit outputs the AUX sound signal to BOSE amp. The BOSE amp. outputs the AUX sound signal to woofer and each speaker.



### With DVD Entertainment System

- The AUX sound signal input from the external input device is transmitted from auxiliary input jacks to DVD player. DVD player transmits it to AV control unit. AV control unit transmits the AUX sound signal to BOSE amp. The BOSE amp. outputs the AUX sound signal to woofer and each speaker.
- The AUX image signal input from the external input device is transmitted to the video distributor. The video distributor transmits the AUX image signal to the AV control unit and rear display unit.



# **Component Parts Location**

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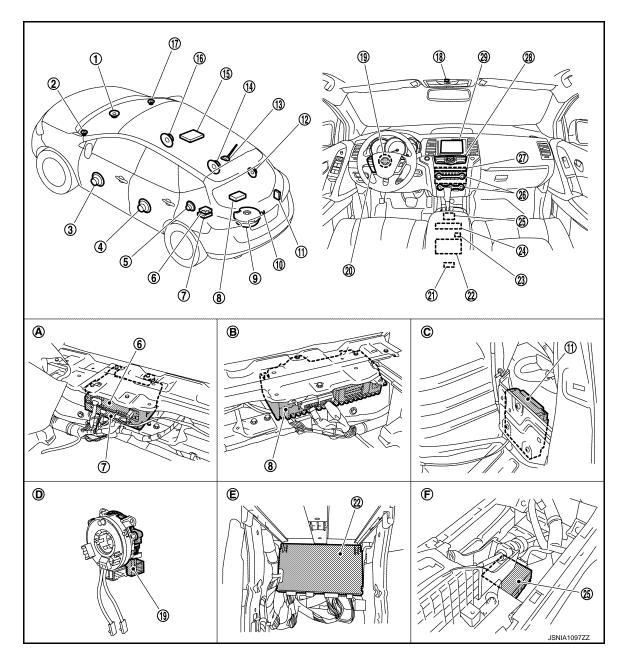
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- Center speaker
- Rear door speaker LH
- TEL adapter unit 7.
- 10. Rear view camera
- Antenna base (antenna amp. and sat-13. ellite antenna)
- 16. Front door speaker RH
- 19. Steering angle sensor
- 22. Video distributor
- 25. iPod adapter
- Multifunction switch 28.
- Luggage floor finisher is removed condition
- Spiral cable part

- Front squawker LH
- 5. Rear speaker LH
- BOSE amp.
- Camera control unit
- 14. Rear door speaker RH
- Front squawker RH
- 20. Steering switch
- iPod connector 23.
- Preset switch
- Front display unit
- Luggage floor finisher is removed con-
- Console rear finisher is removed condition

- Front door speaker LH
- 6. Satellite radio tuner
- 9. Woofer
- 12. Rear speaker RH
- Rear display unit 15.
- 18. Microphone
- Auxiliary input jacks 21.
- DVD player 24.
- 27. AV control unit
- Luggage side finisher lower RH is removed condition
- Console finisher is removed condition

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# [BOSE AUDIO WITHOUT NAVIGATION]

# **Component Description**

INFOID:0000000005528460

Part name	Description
AV CONTROL UNIT	<ul> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>AV control unit includes audio function and vehicle information function.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>The camera image signal is input from the camera control unit. The AV control unit outputs camera image signal to the front display unit.</li> <li>BOSE amp. ON signal and sound signal are transmitted to BOSE amp.</li> <li>Power (signal VCC and inverter VCC) is transmitted to front display unit. Without DVD entertainment system</li> <li>Auxiliary image and auxiliary sound signals are input from the auxiliary input jacks. With DVD entertainment system</li> <li>Composite image signal (auxiliary and DVD images) is input from the video distributor.</li> <li>Sound signal (DVD and auxiliary sounds) is input from the DVD player.</li> </ul>
VIDEO DISTRIBUTOR	<ul> <li>It receives the image signal from the DVD player, and auxiliary input jack, and then transmits it to the AV control unit and rear display unit.</li> <li>Composite synchronize signal is output to rear display unit.</li> <li>It transmits the headphone ON signal to the rear display unit, and then receives the remote controller operation signal from the rear display unit.</li> </ul>
FRONT DISPLAY UNIT	<ul> <li>Front display image is controlled by the serial communication from AV control unit.</li> <li>It receives the power (signal VCC and inverter VCC) from the AV control unit and operates.</li> <li>RGB image signal is input from AV control unit (RGB, RGB area and RGB synchronizing).</li> <li>Synchronizing signal (HP, VP) is output to AV control unit.</li> <li>Camera image signal is input from AV control unit. Without DVD entertainment system</li> <li>Auxiliary image signal is input from AV control unit. With DVD entertainment system</li> <li>Composite image signal (auxiliary and DVD images) is input from the AV control unit.</li> </ul>
REAR DISPLAY UNIT	<ul> <li>The rear display unit has functions of remote control receiver and headphone amp.</li> <li>Transmits the headphone sound signal when receiving headphone ON signal from the video distributor.</li> <li>Headphone sound signal is input from DVD player via wiring harnesses and outputs the signal to headphones via infrared wireless communication.</li> <li>Receives the operation signal from the remote controller and transmits the signal to the video distributor via serial communication.</li> <li>Rear display image is controlled by the serial communication from video distributor.</li> <li>RGB image signal is input from video distributor (RGB image and RGB area). Composite image signal (DVD and auxiliary images) is input from the video distributor.</li> <li>Synchronize signal (HP, VP) is output to video distributor.</li> </ul>
DVD PLAYER	<ul> <li>It transmits the playback DVD image signal to the video distributor.</li> <li>It transmits the playback DVD sound signal to the AV control unit.</li> <li>It also transmits the input AUX sound signal to the AV control unit.</li> </ul>

# < SYSTEM DESCRIPTION >

# [BOSE AUDIO WITHOUT NAVIGATION]

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Part name	Description
BOSE AMP.	<ul> <li>Inputs power (amp. ON) and sound signal from AV control unit, and outputs sound signal to woofer and each speaker.</li> <li>Woofer amp. ON signal is transmitted to woofer.</li> </ul>
WOOFER	<ul> <li>Composed of two woofers and a woofer amp.</li> <li>Inputs power (amp. ON) and sound signal from BOSE amp.</li> <li>Outputs low frequency sound.</li> </ul>
FRONT DOOR SPEAKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (mid and low range).</li></ul>
REAR DOOR SPEAKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (mid and low range).</li></ul>
FRONT SQUAWKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (high and mid range).</li></ul>
REAR SPEAKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (high and mid range).</li></ul>
CENTER SPEAKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (high and mid range).</li></ul>
MULTIFUNCTION SWITCH	<ul> <li>Operation panel is equipped with the centralized switch where audio and auxiliary input operations are integrated.</li> <li>The multifunction switch is connected to the preset switch by wiring harness, and it transmits the operation signal to the preset switch.</li> </ul>
PRESET SWITCH	<ul> <li>Operation panel is equipped with the centralized switch where audio and air conditioner operations are integrated.</li> <li>The preset switch is connected via AV communication, and it transmits the operation signals of the preset switch and multifunction switch.</li> <li>The disk ejection operating signal is performed by wiring harness.</li> </ul>
STEERING SWITCH	<ul> <li>Operations such as audio and hands-free phone are possible.</li> <li>Steering switch signal (operation signal) is output to AV control unit.</li> </ul>
MICROPHONE	<ul> <li>Used only when hands-free phone is operated.</li> <li>Outputs Mic. signal (TEL voice signal) to the TEL adapter unit.</li> <li>The power (Mic. power supply) is supplied from the TEL adapter unit.</li> </ul>
AUXILIARY INPUT JACKS	<ul> <li>Without DVD entertainment system</li> <li>The image signal of the auxiliary input is output via the AV control unit to the front display, and it outputs the sound signal to the AV control unit. With DVD entertainment system</li> <li>The AUX image signal of the auxiliary input is output via the video distributor to the AV control unit and rear display unit, and it outputs the AUX sound signal to the DVD player.</li> </ul>
ANTENNA BASE	An antenna base integrated with radio antenna amp. and satellite radio antenna is adopted.  ANTENNA AMP.  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  Receives the satellite radio wave and outputs it to the satellite radio tuner.
CAMERA CONTROL UNIT	<ul> <li>Camera image signal is input from rear view camera. Camera image signal output to AV control unit.</li> <li>Power (camera ON signal) is transmitted to rear view camera.</li> <li>AV control unit recognizes the presence of camera system with camera connection recognition signal.</li> <li>Camera control unit is connected via AV communication.</li> </ul>
REAR VIEW CAMERA	The image of vehicle rear view is transmitted to camera control unit.  It receives the power (camera ON signal) from the camera control unit and operates.
STEERING ANGLE SENSOR	Steering signal necessary for possible route line control is transmitted to camera control unit.

### < SYSTEM DESCRIPTION >

# [BOSE AUDIO WITHOUT NAVIGATION]

Part name	Description
TEL ADAPTER UNIT	<ul> <li>Inputs the TEL voice signal from TEL antenna and outputs it to the AV control unit.</li> <li>It is connected with the AV control unit via AV communication and controlled with the AV control unit.</li> </ul>
TEL ANTENNA	Receives the TEL voice signal and outputs it to the TEL adapter unit.
SATELLITE RADIO TUNER	<ul> <li>Inputs the satellite radio signal from satellite radio antenna and outputs the sound signal to the AV control unit.</li> <li>It is controlled with the AV control unit and serial communication (communication signal and request signal).</li> </ul>
iPod ADAPTER	<ul> <li>Inputs iPod sound signal from iPod[®], and outputs iPod sound signal to AV control unit.</li> <li>Receiving/transmitting of iPod[®] operation signals are performed as follows:         <ul> <li>between AV control unit and iPod adapter: AV communication.</li> <li>between iPod[®] and iPod adapter: serial communication.</li> </ul> </li> </ul>

# **REAR VIEW MONITOR SYSTEM**

## System Diagram

Communication signal (DISP+CONT) Communication signal (CONT+DISP) STEERING Steering angle signal ANGLE Horizontal synchronizing (HP) signal SENSOR Virtical synchronizing (VP) signal **FRONT** RGB image signal Camera image signal DISPLAY RGB synchronizing signal UNIT RGB area (YS) signal REAR CAMERA VIEW Composite image signal (camera image) CONTROL CONTRL CAMERA UNIT Camera ON signal Inverter VCC (front display power supply) UNIT Signal VCC (front display power supply) Camera connection recognition signal Reverse signal/Vehicle speed signal Parking brake signal Camera image signal AV communication JSNIA1068GB

# System Description

INFOID:0000000005528462

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#### CAMERA IMAGE OPERATION PRINCIPLE

- Power is supplied to rear view camera from camera control unit and outputs camera image signal to camera control unit when selector lever is set to R position and the reverse signal on camera control unit is input.
- Camera control unit synthesizes guide lines and possible route lines with camera image signal from rear view camera, and transmits camera image signal to the AV control unit. In this case, since the reverse signal is also input to AV control unit, the AV control unit recognizes that the selector lever is in the R position, and it switches communication signal between AV control unit and front display unit, and image that is displayed on the front display unit by RGB image signal with rear view monitor image. In addition, possible route lines are controlled by original sensor signal from steering angle sensor.
- The AV control unit determines whether rear view camera is equipped or not, based on the presence of camera connection recognition signal. It switches to rear view monitor image at the time of reverse signal input when it is equipped.
- Warning message under the rear view monitor display is described by AV control unit.
- AV control unit is connected in communication with camera control unit and front display unit, and it controls operation of rear view monitor system.

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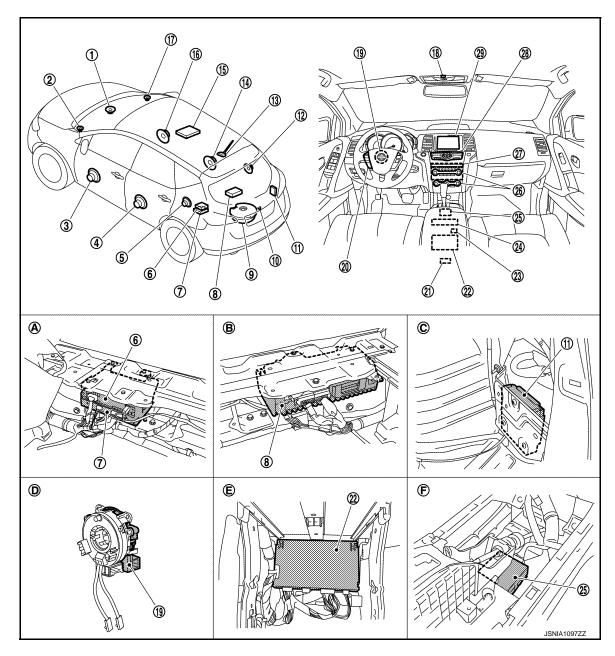
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# **Component Parts Location**

INFOID:0000000005528463



- Center speaker
- 4. Rear door speaker LH
- 7. TEL adapter unit
- 10. Rear view camera
- 13. Antenna base (antenna amp. and satellite antenna)
- 16. Front door speaker RH
- 19. Steering angle sensor
- 22. Video distributor
- 25. iPod adapter
- 28. Multifunction switch
- A. Luggage floor finisher is removed condition
- D. Spiral cable part

- 2. Front squawker LH
- 5. Rear speaker LH
- 8. BOSE amp.
- 11. Camera control unit
- 14. Rear door speaker RH
- 17. Front squawker RH
- 20. Steering switch
- 23. iPod connector
- 26. Preset switch
- 29. Front display unit
- B. Luggage floor finisher is removed condition
- E. Console rear finisher is removed condition

- 3. Front door speaker LH
- 6. Satellite radio tuner
- 9. Woofer
- 12. Rear speaker RH
- 15. Rear display unit
- 18. Microphone
- 21. Auxiliary input jacks
- 24. DVD player
- 27. AV control unit
- C. Luggage side finisher lower RH is removed condition
- F. Console finisher is removed condition

# **REAR VIEW MONITOR SYSTEM**

< SYSTEM DESCRIPTION >

# [BOSE AUDIO WITHOUT NAVIGATION]

### **Component Description** INFOID:0000000005528464

Part name	Description
AV CONTROL UNIT	<ul> <li>Camera image signal is input from camera control unit, and it is output to front display unit when input reverse signal.</li> <li>Image on display is changed to rear view monitor with the communication for AV control unit and front display unit.</li> <li>Warning displayed in rear view monitor image is illustrated.</li> </ul>
FRONT DISPLAY UNIT	<ul> <li>Camera image signal is input from AV control unit.</li> <li>RGB image signal for warning display is input from AV control unit.</li> <li>Rear view monitor image is changed with the serial communication for AV control unit.</li> </ul>
CAMERA CONTROL UNIT	<ul> <li>Camera image signal is input from rear view camera. Camera image signal output to AV control unit.</li> <li>Power (camera ON signal) is transmitted to rear view camera.</li> <li>AV control unit recognizes the presence of camera system with camera connection recognition signal.</li> <li>Camera control unit is connected via AV communication.</li> </ul>
REAR VIEW CAMERA	The image of vehicle rear view is transmitted to camera control unit.  It receives the power (camera ON signal) from the camera control unit and operates.
STEERING ANGLE SENSOR	Steering signal necessary for possible route line control is transmitted to camera control unit.

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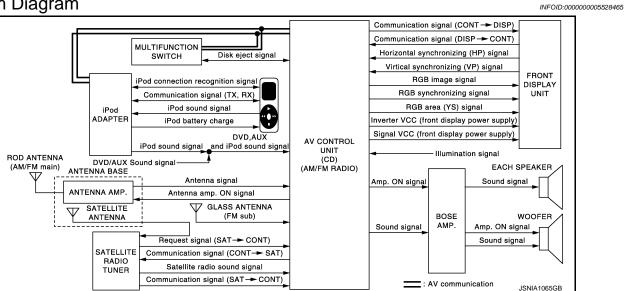
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**AV-63** Revision: 2009 September 2010 Murano

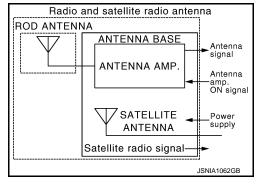
### **AUDIO SYSTEM**

System Diagram



#### NOTE:

- Woofer, illustrated in the above figure, integrates two woofers and a woofer amp.
- In this section, PRESET SWITCH and MULTIFUNCTION SWITCH are written as the MULTIFUNCTION SWITCH.
- An antenna base integrated with radio antenna amp. and satellite radio antenna is adopted.



# System Description

INFOID:0000000005528466

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

Function
AM/FM radio
Satellite radio
CD mode
iPod connection
AUX mode
DVD mode

#### **FUNCTION DESCRIPTION**

#### **Operating Signal**

- Audio system operation can be performed with multifunction switch, preset switch, and 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 wiring harness.
- Operating signal is transmitted to AV control unit with steering switch signal when it is operated by steering switch.

#### **AUDIO SYSTEM**

#### < SYSTEM DESCRIPTION >

#### [BOSE AUDIO WITHOUT NAVIGATION]

#### Screen Front Display

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

#### AM/FM Radio Mode

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

#### Satellite Radio Mode

- Satellite radio tuner is controlled by serial communication 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 BOSE amp. and 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 signal to BOSE amp. and BOSE amp. outputs to woofer and each speaker when CD is inserted to AV control unit.

#### iPod Connection

- Connect iPod[®] and iPod adapter with wire harness and iPod adapter input iPod sound signal from iPod[®].
   When iPod mode is selected, iPod adapter output iPod sound signal to AV control unit. AV control unit output sound signal to BOSE amp., and BOSE amp. output sound signal to 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 if iPod adapter receives iPod connection recognition signal.
- The iPod adapter can charge iPod[®].

#### **AUX Mode**

Refer to AV-55, "System Description".

#### **DVD Mode**

Refer to AV-68, "System Description".

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Revision: 2009 September AV-65 2010 Murano

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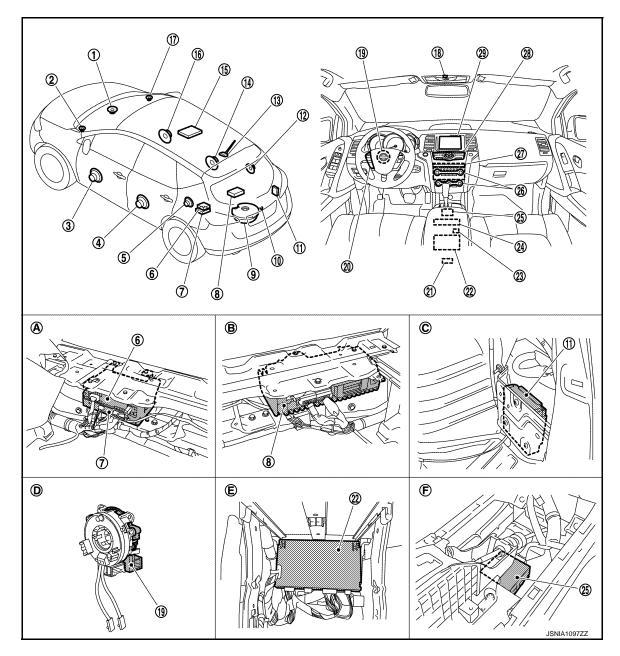
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# **Component Parts Location**

INFOID:0000000005528467



- Center speaker
- 4. Rear door speaker LH
- 7. TEL adapter unit
- 10. Rear view camera
- 13. Antenna base (antenna amp. and satellite antenna)
- 16. Front door speaker RH
- 19. Steering angle sensor
- 22. Video distributor
- 25. iPod adapter
- 28. Multifunction switch
- A. Luggage floor finisher is removed condition
- D. Spiral cable part

- 2. Front squawker LH
- 5. Rear speaker LH
- 8. BOSE amp.
- 11. Camera control unit
- 14. Rear door speaker RH
- 17. Front squawker RH
- 20. Steering switch
- 23. iPod connector
- 26. Preset switch
- 29. Front display unit
- B. Luggage floor finisher is removed condition
- E. Console rear finisher is removed condition

- Front door speaker LH
- 6. Satellite radio tuner
- 9. Woofer
- 12. Rear speaker RH
- 15. Rear display unit
- 18. Microphone
- 21. Auxiliary input jacks
- 24. DVD player
- 27. AV control unit
- C. Luggage side finisher lower RH is removed condition
- F. Console finisher is removed condition

# **AUDIO SYSTEM**

# < SYSTEM DESCRIPTION >

# [BOSE AUDIO WITHOUT NAVIGATION]

# **Component Description**

INFOID:0000000005528468

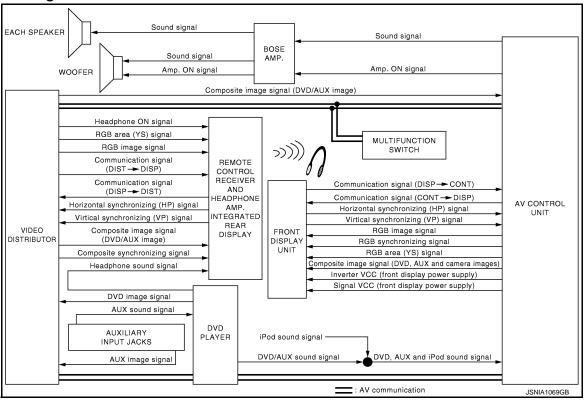
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Part name	Description
AV CONTROL UNIT	<ul> <li>The AM/FM receiving function and the CD playing function are equipped.</li> <li>BOSE amp. ON signal and sound signal are transmitted to BOSE amp.</li> </ul>
FRONT DISPLAY UNIT	<ul> <li>Front display image is controlled by the serial communication from AV control unit.</li> <li>RGB image signal (audio operation condition) is input from AV control unit.</li> </ul>
BOSE AMP.	<ul> <li>Inputs power (amp. ON) and sound signal from AV control unit, and outputs sound signal to woofer and each speaker.</li> <li>Woofer amp. ON signal is transmitted to woofer.</li> </ul>
WOOFER	<ul> <li>Composed of two woofers and a woofer amp.</li> <li>Inputs power (amp. ON) and sound signal from BOSE amp.</li> <li>Outputs low frequency sound.</li> </ul>
FRONT DOOR SPEAKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (mid and low range).</li></ul>
REAR DOOR SPEAKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (mid and low range).</li></ul>
FRONT SQUAWKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (high and mid range).</li></ul>
REAR SPEAKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (high and mid range).</li></ul>
CENTER SPEAKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (high and mid range).</li></ul>
MULTIFUNCTION SWITCH	<ul> <li>Operation panel is equipped with the centralized switch where audio and auxiliary input operations are integrated.</li> <li>The multifunction switch is connected to the preset switch by wiring harness, and it transmits the operation signal to the preset switch.</li> </ul>
PRESET SWITCH	<ul> <li>Operation panel is equipped with the centralized switch where audio and air conditioner operations are integrated.</li> <li>The preset switch is connected via AV communication, and it transmits the operation signals of the preset switch and multifunction switch.</li> <li>The disk ejection operating signal is performed by wiring harness.</li> </ul>
STEERING SWITCH	<ul> <li>Operations such as audio and hands-free phone are possible.</li> <li>Steering switch signal (operation signal) is output to AV control unit.</li> </ul>
ANTENNA BASE	<ul> <li>An antenna base integrated with radio antenna amp. and satellite radio antenna is adopted. ANTENNA AMP.</li> <li>Radio signal received by rod antenna is amplified and transmitted to AV control unit.</li> <li>Power (antenna amp. ON signal) is supplied from AV control unit. SATELLITE RADIO ANTENNA</li> <li>Receives the satellite radio wave and outputs it to the satellite radio tuner.</li> </ul>
SATELLITE RADIO TUNER	<ul> <li>Inputs the satellite radio signal from satellite radio antenna and outputs the sound signal to the AV control unit.</li> <li>It is controlled with the AV control unit and serial communication (communication signal and request signal).</li> </ul>
iPod ADAPTER	<ul> <li>Inputs iPod sound signal from iPod[®], and outputs iPod sound signal to AV control unit.</li> <li>Receiving/transmitting of iPod[®] operation signals are performed as follows:         <ul> <li>between AV control unit and iPod adapter: AV communication.</li> <li>between iPod[®] and iPod adapter: serial communication.</li> </ul> </li> </ul>

# **DVD ENTERTAINMENT SYSTEM**

### System Diagram

INFOID:0000000005528469



# System Description

INFOID:0000000005528470

The passengers can enjoy watching DVDs in the rear seat with the rear display unit. They can also listen to a DVD and AUX in the rear seat independently by cordless headphones.

#### **FUNCTION DESCRIPTION**

#### Operating Signal

The mobile entertainment system can be controlled by the rear seat remote controller.

It receives the operation signal of the rear seat remote controller by the rear display unit, and then transmits it to the video distributor.

#### Screen Rear Display

- Switching of display is performed with serial communication between rear display unit and video distributor.
- The rear display unit receives the DVD/AUX image signal and RGB image signal from the video distributor.

### Screen Front Display

- Switching of display is performed with serial communication between front display unit and AV control unit.
- The front display unit receives the DVD/AUX image signal from the AV control unit.
- The front display unit receives the RGB image signal from the AV control unit.

#### **DVD Mode**

- The DVD player is connected to the AV control unit via AV communication and controlled by the AV control
  unit.
- The DVD player sound signal is output to the AV control unit. The AV control unit outputs DVD player sound signal to BOSE amp. The BOSE amp. outputs it to woofer and each speaker.
- The DVD image signal is output to the video distributor. The video distributor outputs it to AV control unit and rear display unit. The AV control unit output DVD image signal to front display unit.

#### **AUX Mode**

Refer to AV-55, "System Description".

# **Component Parts Location**

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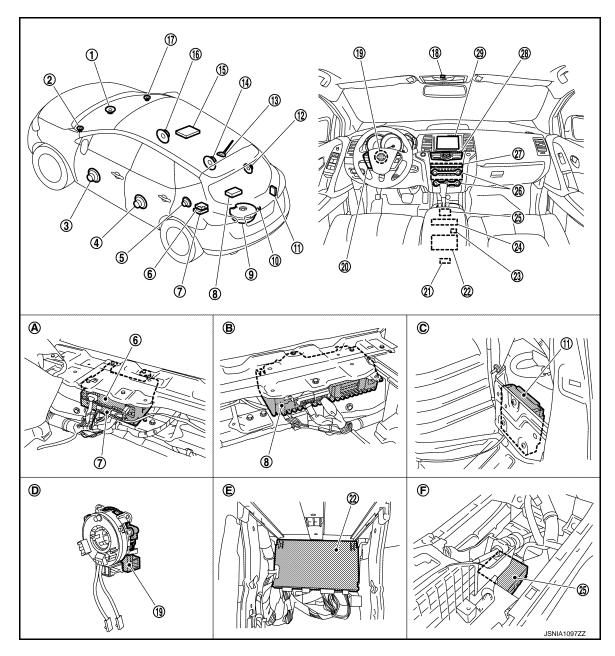
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- Center speaker
- 4. Rear door speaker LH
- 7. TEL adapter unit
- 10. Rear view camera
- 13. Antenna base (antenna amp. and satellite antenna)
- 16. Front door speaker RH
- 19. Steering angle sensor
- 22. Video distributor
- 25. iPod adapter
- 28. Multifunction switch
- A. Luggage floor finisher is removed condition
- D. Spiral cable part

- 2. Front squawker LH
- 5. Rear speaker LH
- 8. BOSE amp.
- 11. Camera control unit
- 14. Rear door speaker RH
- 17. Front squawker RH
- 20. Steering switch
- 23. iPod connector
- 26. Preset switch
- 29. Front display unit
- B. Luggage floor finisher is removed condition
- E. Console rear finisher is removed condition

- Front door speaker LH
- 6. Satellite radio tuner
- 9. Woofer
- 12. Rear speaker RH
- 15. Rear display unit
- 18. Microphone
- 21. Auxiliary input jacks
- 24. DVD player
- 27. AV control unit
- C. Luggage side finisher lower RH is removed condition
- F. Console finisher is removed condition

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# **DVD ENTERTAINMENT SYSTEM**

< SYSTEM DESCRIPTION >

# [BOSE AUDIO WITHOUT NAVIGATION]

# **Component Description**

INFOID:0000000005528472

Part name	Description
AV CONTROL UNIT	<ul> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>AV control unit includes audio function and vehicle information function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>BOSE amp. ON signal and sound signal are transmitted to BOSE amp.</li> <li>Composite image signal (auxiliary and DVD images) is input from the video distributor.</li> <li>Sound signal (DVD and auxiliary sounds) is input from the DVD player.</li> </ul>
VIDEO DISTRIBUTOR	<ul> <li>It receives the image signal from the DVD player, and auxiliary input jack, and then transmits it to the AV control unit and rear display unit.</li> <li>Composite synchronize signal is output to rear display unit.</li> <li>It transmits the headphone ON signal to the rear display unit, and then receives the remote controller operation signal from the rear display unit.</li> </ul>
FRONT DISPLAY UNIT	<ul> <li>Front display image is controlled by the serial communication from AV control unit.</li> <li>RGB image signal is input from AV control unit (RGB, RGB area and RGB synchronizing).</li> <li>Synchronizing signal (HP, VP) is output to AV control unit.</li> <li>Composite image signal (auxiliary and DVD images) is input from the AV control unit.</li> </ul>
REAR DISPLAY UNIT	<ul> <li>The rear display unit has functions of remote control receiver and headphone amp.</li> <li>Transmits the headphone sound signal when receiving headphone ON signal from the video distributor.</li> <li>Headphone sound signal is input from DVD player via wiring harnesses and outputs the signal to headphones via infrared wireless communication.</li> <li>Receives the operation signal from the remote controller and transmits the signal to the video distributor via serial communication.</li> <li>Rear display image is controlled by the serial communication from video distributor.</li> <li>RGB image signal is input from video distributor (RGB image and RGB area). Composite image signal (DVD and auxiliary images) is input from the video distributor.</li> <li>Synchronize signal (HP, VP) is output to the video distributor.</li> </ul>
DVD PLAYER	<ul> <li>It transmits the playback DVD image signal to the video distributor.</li> <li>It transmits the playback DVD sound signal to the AV control unit.</li> <li>It also transmits the input AUX sound signal to the AV control unit.</li> </ul>
BOSE AMP.	<ul> <li>Inputs power (amp. ON) and sound signal from AV control unit, and outputs sound signal to woofer and each speaker.</li> <li>Woofer amp. ON signal is transmitted to woofer.</li> </ul>
WOOFER	<ul> <li>Composed of two woofers and a woofer amp.</li> <li>Inputs power (amp. ON) and sound signal from BOSE amp.</li> <li>Outputs low frequency sound.</li> </ul>
FRONT DOOR SPEAKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (mid and low range).</li></ul>
REAR DOOR SPEAKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (mid and low range).</li></ul>
FRONT SQUAWKER	<ul> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs sound (high and mid range).</li> </ul>
REAR SPEAKER	<ul> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs sound (high and mid range).</li> </ul>
CENTER SPEAKER	<ul> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs sound (high and mid range).</li> </ul>

JSNIA1076GB

INFOID:0000000005528474

### HANDS-FREE PHONE SYSTEM

## System Diagram

TEL

UNIT

INFOID:0000000005528473 Bluetooth™ communication TEL FRONT 4 ANNTENA **SPEAKER** TEL voice signal/Voice TEL voice signal/Voice BOSE guidance signal guidance signal STEERING TEL started/TEL end AMP. SWITCH ΑV ADAPTER TEL voice signal CONTROL UNIT MICROPHONE MIC. VCC TEL voice signal/Voice Operation status **FRONT** guidance signal indicated DISPLAY : AV communication

UNIT

# System Description

- TEL adapter unit is controlled with AV communication from AV control unit.
- The connection between portable telephone and TEL adapter unit is performed with Bluetooth[™] communication.
- The voice guidance signal is input from the TEL adapter unit to the AV control unit and output via BOSE amp. to the front door speaker when operating the cellular phone.
- TEL adapter unit has the on board self-diagnosis function. Refer to AV-91, "Diagnosis Description".

#### WHEN RECEIVING A CALL

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

#### WHEN A CALL IS TRANSMITTED

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

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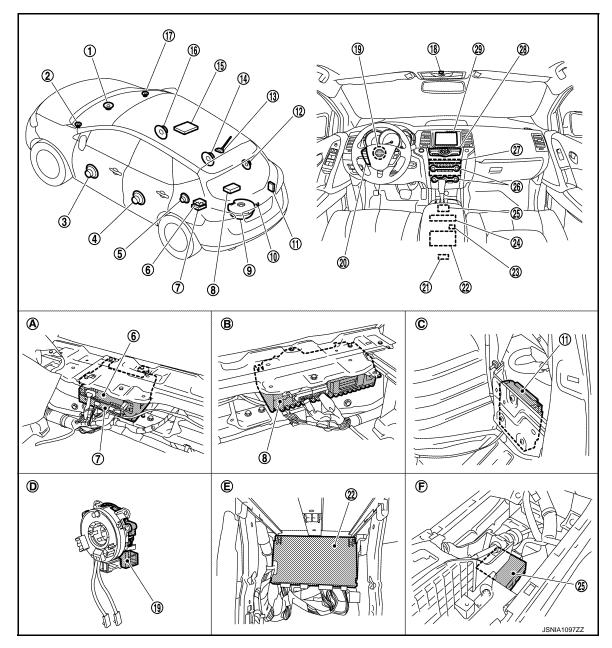
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# **Component Parts Location**

INFOID:0000000005528475



- Center speaker
- 4. Rear door speaker LH
- 7. TEL adapter unit
- 10. Rear view camera
- 13. Antenna base (antenna amp. and satellite antenna)
- 16. Front door speaker RH
- 19. Steering angle sensor
- 22. Video distributor
- 25. iPod adapter
- 28. Multifunction switch
- A. Luggage floor finisher is removed condition
- D. Spiral cable part

- 2. Front squawker LH
- 5. Rear speaker LH
- 8. BOSE amp.
- 11. Camera control unit
- 14. Rear door speaker RH
- 17. Front squawker RH
- 20. Steering switch
- 23. iPod connector
- 26. Preset switch
- 29. Front display unit
- B. Luggage floor finisher is removed condition
- E. Console rear finisher is removed condition

- 3. Front door speaker LH
- 6. Satellite radio tuner
- 9. Woofer
- 12. Rear speaker RH
- 15. Rear display unit
- 18. Microphone
- 21. Auxiliary input jacks
- 24. DVD player
- 27. AV control unit
- C. Luggage side finisher lower RH is removed condition
- F. Console finisher is removed condition

# HANDS-FREE PHONE SYSTEM

## < SYSTEM DESCRIPTION >

## [BOSE AUDIO WITHOUT NAVIGATION]

# **Component Description**

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Part name	Description     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.	
AV CONTROL UNIT		
FRONT DISPLAY UNIT	<ul> <li>Display image is controlled by the serial communication from AV control unit.</li> <li>Inputs RGB image signal (RGB, RGB area and RGB synchronizing) from AV control unit and displays the status of hands free phone system.</li> </ul>	
BOSE AMP.	Inputs TEL voice signal or voice guidance signal from AV control unit and outputs it to front speaker.	
FRONT DOOR SPEAKER	Outside the TEL value simple exists without a simple form DOOF and	
FRONT SQUAWKER	Outputs the TEL voice signal or voice guidance signal from BOSE amp.	
PRESET SWITCH	<ul> <li>Adjust the sound when using hands-free phone system.</li> <li>The operation signal is transmitted to the AV control unit via AV communication.</li> </ul>	
STEERING SWITCH	<ul> <li>The hands-free phone system can be operated.</li> <li>Steering switch signal (operation signal) is output to AV control unit.</li> </ul>	
MICROPHONE	<ul> <li>Uses when operating the hands-free phone.</li> <li>Outputs Mic. signal (TEL voice signal) to the TEL adapter unit.</li> <li>The power (Mic. power supply) is supplied from the TEL adapter unit.</li> </ul>	
TEL ADAPTER UNIT	<ul> <li>Receives the steering switch signal (operation signal) from the steering switch.</li> <li>Inputs the TEL voice signal from TEL antenna during reception and outputs it to the AV control unit.</li> <li>Inputs the TEL voice signal from microphone during speech recognition and outputs it to the TEL antenna.</li> <li>Controlled by AV communication transmitted from AV control unit.</li> </ul>	
TEL ANTENNA	Connects with the portable telephone via Bluetooth [™] and communicates the TEL voice signal.	

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< SYSTEM DESCRIPTION >

[BOSE AUDIO WITHOUT NAVIGATION]

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

## **Diagnosis Description**

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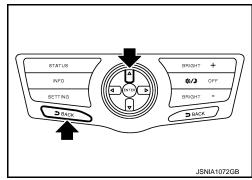
### MULTIFUNCTION SWITCH AND PRESET SWITCH SELF-DIAGNOSIS FUNCTION

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 "
   " switch of the 8-direction switches within 10 seconds after turning the ignition switch from OFF to ACC and hold them for 3 seconds or more. Then the buzzer sounds, all indicators of the preset switch illuminate, and the self-diagnosis mode starts.
- The continuity of each switch at the ON position can be checked by pressing the switch. The buzzer sounds if the switch is normal.
   NOTE:

The disk eject switch cannot be checked.



#### Finishing Self-diagnosis Mode

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

#### MULTI AV SYSTEM ON BOARD DIAGNOSIS FUNCTION

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

#### ON BOARD DIAGNOSIS

#### Description

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

#### On Board Diagnosis Item

Mode	Description
Self-Diagnosis	AV control unit diagnosis     Perform the connection diagnosis between each of the units.

### < SYSTEM DESCRIPTION >

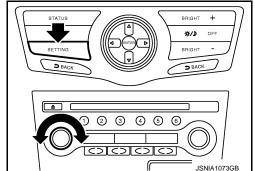
### [BOSE AUDIO WITHOUT NAVIGATION]

	Mode	Description	
DISDIAV DIADDOSIS		The confirmation 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*	Not used.	
Confirmation/ Adjustment	Error History	System malfunctions 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.	
	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.	
	Vehicle CAN Diagnosis	The transmitting/receiving of CAN communication can be monitored.	
	AV COMM Diagnosis	The communication condition of each unit of MULTI AV system can be monitored.	
	Delete Unit Connection Log	Erase the connection history of unit and error history	
	Initialize Settings	Initializes the AV control unit memory.	

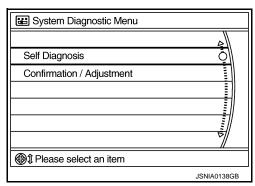
#### NOTE:

#### STARTING PROCEDURE

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



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



**SELF-DIAGNOSIS MODE** 

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^{*:} On-board self-diagnosis is not supported. Only CONSULT-III is supported.

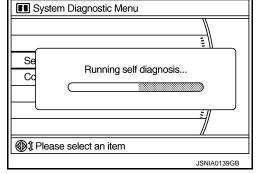
#### < SYSTEM DESCRIPTION >

#### [BOSE AUDIO WITHOUT NAVIGATION]

Start the self-diagnosis function and select "Self-diagnosis".
 NOTE:

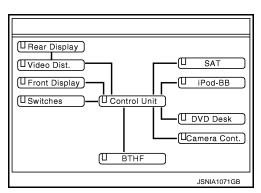
Because the start condition of diagnosis function is a switch operation, the on board diagnosis function cannot start up if any malfunction is detected in the AV communication circuit between AV control unit and multifunction switch.

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



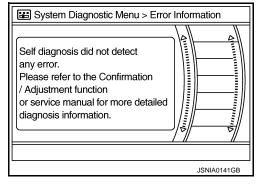
2. Diagnosis results are displayed after the self-diagnosis is completed. The unit names and the connection lines are color-coded according to the diagnostic results.

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 AV control unit internal error. Refer to AV-534, "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

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

#### NOTE:

Because the start condition of diagnosis function is a switch operation, the on board diagnosis function cannot be started up if any malfunction is detected in the AV communication circuit between AV control unit and multifunction switch.

Self-diagnosis Result Chart

Diagnosis results	Detection logic	Possible malfunction location / Action to take
Red   Self-Diagnosis did not run because of a control unit nalfunction"	Malfunction is detected in AV control unit power supply and ground circuits.	Check AV control unit power supply and ground circuits. When detecting no malfunction in those components, replace AV control unit.
☐ Rear Display ☐ Video Dist. ☐ Front Display ☐ I Pod-BB ☐ Switches ☐ DVD Deck ☐ Camera Cont. ☐ BTHF ☐ Gray ☐ SNIA1078GB	When either one of the following items are detected:  • serial communication circuits between AV control unit and front display unit are malfunctioning.  • serial communication signal between AV control unit and front display unit is malfunctioning.	Serial communication circuits between AV control unit and front display unit.
☐ Rear Display ☐ Video Dist. ☐ Front Display ☐ SAT ☐ Pod-BB ☐ Switches ☐ DVD Deck ☐ Control Unit ☐ DVD Deck ☐ Camera Cont. ☐ BTHF ☐ Gray ☐ SAT ☐ JPOd-BB ☐ JSNIA1079GB	When either one of the following items are detected:  satellite radio tuner power supply and ground circuits are malfunctioning.  serial communication circuits between AV control unit and satellite radio tuner are malfunctioning.  serial communication or request signal between AV control unit and satellite radio tuner is malfunctioning.  request signal circuit between AV control unit and satellite radio tuner is malfunctioning.	<ul> <li>Satellite radio tuner power supply and ground circuits.</li> <li>Serial communication circuits between AV control unit and satellite radio tuner.</li> <li>Request signal circuit between AV control unit and satellite radio tuner.</li> </ul>

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# [BOSE AUDIO WITHOUT NAVIGATION]

< SYSTEM DESCRIPTION >	SYSTEM (AV CONTROL [BOSE AL	IDIO WITHOUT NAVIGATION]
Diagnosis results	Detection logic	Possible malfunction location / Action to take
URear Display Uvideo Dist. UFront Display USwitches UControl Unit UDVD Deck UCamera Cont.  BTHF JSNIA1080GB	<ul> <li>When either one of the following items are detected:</li> <li>TEL adapter unit power supply and ground circuits are malfunctioning.</li> <li>AV communication circuits between camera control unit and TEL adapter unit are malfunctioning.</li> <li>AV communication circuits between multifunction switch and camera control unit are malfunctioning. (without DVD player models)</li> <li>AV communication circuits between DVD player and camera control unit are malfunctioning. (with DVD player models)</li> <li>AV communication circuits between camera control unit and TEL adapter unit is malfunctioning.</li> <li>AV communication signal between AV control unit and TEL adapter unit is malfunctioning.</li> </ul>	<ul> <li>TEL adapter unit power supply and ground circuits.</li> <li>AV communication circuits between camera control unit and TEL adapter unit.</li> <li>AV communication circuits between multifunction switch and camera control unit. (without DVD player models)</li> <li>AV communication circuits between DVD player and camera control unit. (with DVD player models)</li> <li>AV communication circuits between camera control unit and TEL adapter unit.</li> <li>AV communication circuits between multifunction switch and TEL adapter unit. (without rear view camera)</li> </ul>
☐ Rear Display ☐ Video Dist. ☐ Front Display ☐ U SAT ☐ POd-BB ☐ DVD Deck ☐ DVD Deck ☐ Camera Cont. ☐ BTHF ☐ SRIA1081GB	Malfunction is detected in camera-connection recognition signal circuit.	Camera connection recognition signal circuit.
☐ Rear Display ☐ Video Dist. ☐ Front Display ☐ U Control Unit ☐ DVD Deck ☐ DVD Deck ☐ BTHF ☐ Gray ☐ Gray ☐ JSNIA1082GB	When either one of the following items are detected:  • iPod adapter power supply and ground circuits are malfunctioning.  • AV communication circuits between multifunction switch and iPod adapter are malfunctioning.  • AV communication signal between AV control unit and iPod adapter is malfunctioning.	<ul> <li>iPod adapter power supply and ground circuits.</li> <li>AV communication circuits between multifunction switch and iPod adapter.</li> </ul>
URear Display UVideo Dist. UFront Display USwitches UControl Unit UCamera Cont. USWITCHES USAT UFOOT-BB UDVD Deck UCamera Cont.	When either one of the following items are detected:  • DVD player power supply and ground circuits are malfunctioning.  • AV communication signal between AV control unit and DVD player is malfunctioning.	DVD player power supply and ground circuits.

# < SYSTEM DESCRIPTION >

# [BOSE AUDIO WITHOUT NAVIGATION]

Diagnosis results	Detection logic	Possible malfunction location / Action to take
Rear Display UVideo Dist. UFront Display USwitches UControl Unit UDVD Deck UCamera Cont. USHFF USWITCHES U	When either one of the following items are detected:  • rear display unit power supply and ground circuits are malfunctioning.  • serial communication circuits between video distributor and rear display unit are malfunctioning.  • serial communication signal between video distributor and rear display unit is malfunctioning.	<ul> <li>Rear display unit power supply and ground circuits.</li> <li>Serial communication circuits between video distributor and rear display unit.</li> </ul>
Rear Display  Video Dist.  UFront Display  USwitches  UControl Unit  UDVD Deck  UCamera Cont.  IFROM TOTAL OF THE POST OF THE	When either one of the following items are detected:  • Malfunction is detected in video distributor power supply and ground circuits.  • AV communication signal between AV control unit and video distributor is malfunctioning.	Video distributor power supply and ground circuits.
U Rear Display U Video Dist. U Front Display U SAT U iPod-BB U Switches U Control Unit U iPod-BB U Switches U Control Unit U iPod-BB U SWITCHES U SAT U iPod-BB U SWITCHES U SAT U iPod-BB U SWITCHES U SAT U iPod-BB	Malfunction is detected in AV communication circuits between video distributor and DVD player.	AV communication circuits between video distributor and DVD player malfunction.

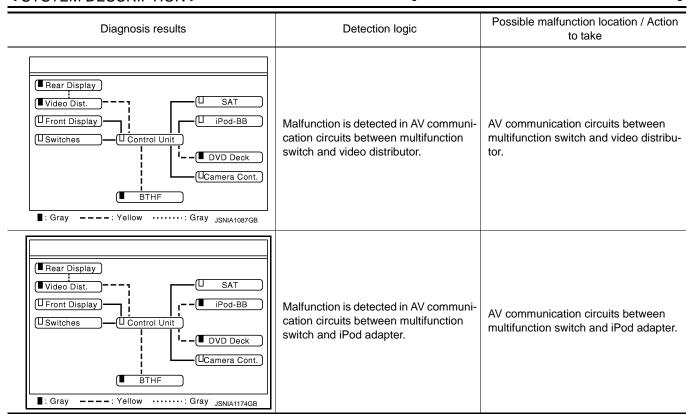
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#### [BOSE AUDIO WITHOUT NAVIGATION]

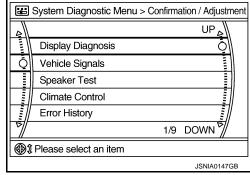


#### NOTE:

The number of units that is displayed on the on board self-diagnosis display according to equipment.

#### CONFIRMATION/ADJUSTMENT MODE

- 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.



#### < SYSTEM DESCRIPTION >

### [BOSE AUDIO WITHOUT NAVIGATION]

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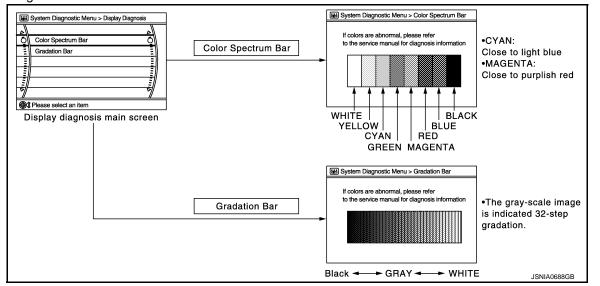
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### Display Diagnosis



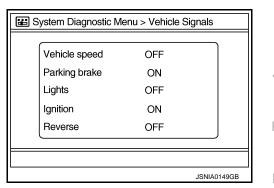
The tint of the color bar indication is as per the following list if RGB image signal error is detected.

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)		
verlicie speed	OFF	Vehicle speed = 0 km/h (0 MPH)	Changes in indication may be delayed. This is normal.	
Darking broke	ON	Parking brake is applied.	Changes in indication may be delayed. This is normal.	A۱
Parking brake	OFF	Parking brake is released.		
Lights	ON	Light switch ON		
Lights	OFF	Light switch OFF	<del></del>	
Ignition	ON	Ignition switch ON		-
Ignition	OFF	Ignition switch in the ACC position	<del>_</del>	F
Reverse	ON	Shift the selector lever to the "R" position	Changes in indication may be delayed. This is normal.	=
1/6/6196	OFF	Shift the selector lever to a position other than the "R" position	Changes in indication may be delayed. This is normal.	

Speaker Test

#### < SYSTEM DESCRIPTION >

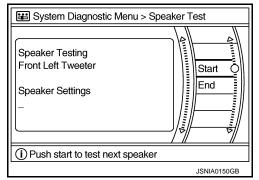
#### [BOSE AUDIO WITHOUT NAVIGATION]

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



#### Climate Control

On-board self-diagnosis is not supported. Only CONSULT-III is supported.

Refer to <u>HAC-39</u>, "CONSULT-III Function" [without 7 inch display].

Refer to <u>HAC-161</u>, "CONSULT-III Function" [with 7 inch display].

#### **Error History**

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

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

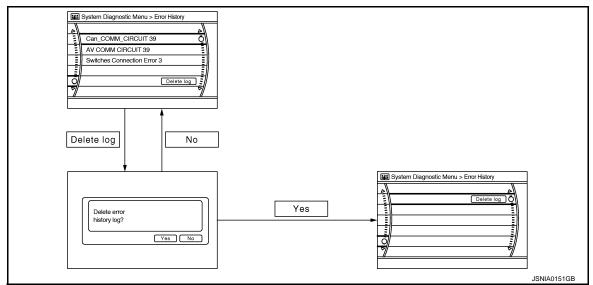
#### Count up method A

- 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 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 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 occur- rence frequency	Error history display item	
Count up method A	CAN communication line, control unit (CAN), AV communication line, control unit (AV communication)	
Count up method B	Other than the above	



#### Error Item

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

# < SYSTEM DESCRIPTION >

# [BOSE AUDIO WITHOUT NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
CAN COMM CIRCUIT	CAN communication malfunction is detected.	Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results.  Refer to AV-87, "CONSULT-III Function (MULTI AV)".
CONTROL UNIT (CAN)	CAN initial diagnosis malfunction is detected.	
CONTROL UNIT (AV)	AV communication circuit initial diagnosis malfunction is detected.	Replace the AV control unit.
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:  • front display unit power supply and ground circuits are malfunctioning.  • serial communication circuits between AV control unit and front display unit are malfunctioning.  • serial communication signal between AV control unit and front display unit is malfunctioning.	<ul> <li>Front display unit power supply and ground circuits.</li> <li>Serial communication circuits between AV control unit and front display unit.</li> </ul>
Rear Display Connection Error	When either one of the following items are detected:  rear display unit power supply and ground circuits are malfunctioning.  serial communication circuits between video distributor and rear display unit are malfunctioning.  serial communication signal between video distributor and rear display unit is malfunctioning.	<ul> <li>Rear display unit power supply and ground circuits.</li> <li>Serial communication circuits between video distributor and rear display unit.</li> </ul>
Camera Control Unit Connection Error	Malfunction is detected in camera connection recognition circuit between AV control unit and camera control unit.	Camera-connection recognition circuit between AV control unit and camera control unit.
SAT Connection Error	When either one of the following items are detected:  satellite radio tuner power supply and ground circuits are malfunctioning.  serial communication circuits between AV control unit and satellite radio tuner are malfunctioning.  serial communication or request signal between AV control unit and satellite radio tuner is malfunctioning.  request signal circuit between AV control unit and satellite radio tuner is malfunctioning.	<ul> <li>Satellite radio tuner power supply and ground circuits.</li> <li>Serial communication circuits between AV control unit and satellite radio tuner.</li> <li>Request signal circuit between AV control unit and satellite radio tuner.</li> </ul>
AV COMM CIRCUIT     Switches Connection Error	When either one of the following items are detected:  multifunction switch power supply and ground circuits are malfunctioning.  AV communication circuits between AV control unit and multifunction switch are malfunctioning.  AV communication signal between AV control unit and multifunction switch is malfunctioning.	<ul> <li>Multifunction switch power supply and ground circuits.</li> <li>AV communication circuits between AV control unit and multifunction switch.</li> </ul>

## < SYSTEM DESCRIPTION >

# [BOSE AUDIO WITHOUT NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
AV COMM CIRCUIT     Video Distributor Connection Error	When either one of the following items are detected:  video distributor power supply and ground circuits are malfunctioning.  AV communication signal between AV control unit and video distributor is malfunctioning.	Video distributor power supply and ground circuits.
AV COMM CIRCUIT     DVD Deck Connection Error	When either one of the following items are detected:  DVD player power supply and ground circuits are malfunctioning.  AV communication signal between AV control unit and DVD player is malfunctioning.	DVD player power supply and ground circuits.
AV COMM CIRCUIT     Rearview Camera Connection Error	When either one of the following items are detected:  camera control unit power supply and ground circuits are malfunctioning.  AV communication signal between AV control unit and camera control unit is malfunctioning.  AV communication circuits between multifunction switch and camera control unit are malfunctioning. (Without DVD entertainment system models)	Camera control unit power supply and ground circuits.     AV communication circuits between multifunction switch and camera control unit. (Without DVD entertainment system models)
AV COMM CIRCUIT     iPod Connection Error	When either one of the following items are detected:  iPod adapter power supply and ground circuits are malfunctioning.  AV communication circuits between multifunction switch and iPod adapter are malfunctioning.  AV communication signal between AV control unit and iPod adapter is malfunctioning.	<ul> <li>iPod adapter power supply and ground circuits.</li> <li>AV communication circuits between multifunction switch and iPod adapter.</li> </ul>
AV COMM CIRCUIT     H/F Unit Connection Error	When either one of the following items are detected:  TEL adapter unit power supply and ground circuits are malfunctioning.  AV communication circuits between camera control unit and TEL adapter unit are malfunctioning.  AV communication signal between AV control unit and TEL adapter unit is malfunctioning.	<ul> <li>TEL adapter unit power supply and ground circuits.</li> <li>AV communication circuits between camera control unit and TEL adapter unit.</li> </ul>
<ul> <li>AV COMM CIRCUIT</li> <li>Rearview Camera Connection Error</li> <li>H/F Unit Connection Error*</li> </ul>	When either one of the following items are detected:  AV communication circuits between multifunction switch and camera control unit are malfunctioning. (without DVD player models)  AV communication circuits between DVD player and camera control unit are malfunctioning. (with DVD player models)	AV communication circuits between multifunction switch and camera control unit. (without DVD player models)     AV communication circuits between DVD player and camera control unit. (with DVD player models)
<ul> <li>AV COMM CIRCUIT</li> <li>DVD Deck Connection Error</li> <li>Rearview Camera Connection Error</li> <li>H/F Unit Connection Error</li> </ul>	Malfunction is detected in AV communication circuits between video distributor and DVD player.	AV communication circuits between video distributor and DVD player.

#### < SYSTEM DESCRIPTION >

## [BOSE AUDIO WITHOUT NAVIGATION]

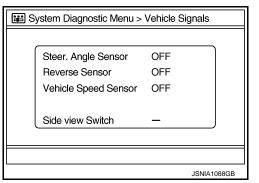
Error item	Description	Possible malfunction factor/Action to take
<ul> <li>AV COMM CIRCUIT</li> <li>Video Distributor Connection Error</li> <li>DVD Deck Connection Error</li> <li>Rearview Camera Connection Error</li> <li>H/F Unit Connection Error</li> </ul>	Malfunction is detected in AV communication circuits between multifunction switch and video distributor.	AV communication circuits between multi- function switch and video distributor.
<ul> <li>AV COMM CIRCUIT</li> <li>Video Distributor Connection Error</li> <li>DVD Deck Connection Error</li> <li>Rearview Camera Connection Error</li> <li>iPod Connection Error</li> <li>H/F Unit Connection Error</li> </ul>	Malfunction is detected in AV communication circuits between multifunction switch and iPod adapter.	AV communication circuits between multi- function switch and iPod adapter.
<ul> <li>AV COMM CIRCUIT</li> <li>Switches Connection Error</li> <li>Rearview Camera Connection Error</li> <li>iPod Connection Error*</li> <li>H/F Unit Connection Error*</li> </ul>	When either one of the following items are detected:  • AV communication circuits between AV	AV communication circuits between AV control unit and the branch point multi-
<ul> <li>AV COMM CIRCUIT</li> <li>Switches Connection Error</li> <li>Video Distributor Connection Error</li> <li>DVD Deck Connection Error</li> <li>Rearview Camera Connection Error</li> <li>iPod Connection Error</li> <li>H/F Unit Connection Error</li> </ul>	control unit and the branch point multi- function switch and AV control unit are malfunctioning.  • AV communication circuits are malfunc- tioning.	function switch and AV control unit.  Check and repair the short circuit in AV communication circuits.

^{*:} Non-equipped item is not displayed.

#### 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
	ON	When steering the vehicle with ignition switch ON (remains ON until connection mode is stopped when it is turned ON).
Steer. Angle Sensor	OFF	<ul><li>Ignition switch at ACC.</li><li>No steering with ignition switch ON.</li></ul>
	_	Malfunction detected in camera connection recognition signal.
Reverse Sensor	ON	Selector lever is in "R" with ignition switch ON.
	OFF	<ul><li>Ignition switch at ACC.</li><li>Selector lever is in position other than "R" with ignition switch ON.</li></ul>
	_	Malfunction detected in camera-connection recognition signal.
	ON	Vehicle speed is more than 0 km/h (0 MPH) with ignition switch ON.
Vehicle Speed Sensor	OFF	<ul><li>Ignition switch at ACC.</li><li>Vehicle speed is 0 km/h (0 MPH) with ignition switch ON.</li></ul>
	_	Malfunction detected in camera connection recognition signal.
Side view Switch	_	Not used.

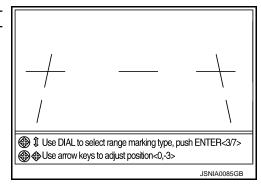
Revision: 2009 September AV-85 2010 Murano

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#### ADJUST OFFSET OF REAR VIEW CAMERA

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



#### 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 status 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

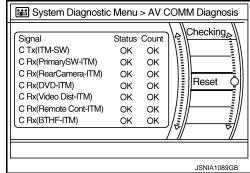
#### System Diagnostic Menu > Vehicle CAN... (SBACK) Checking Signal Status Count Tx(HVAC) OK OK Rx(ECM) OK OK Rx(Cluster) OK OK Reset Rx(BCM) OK OK Rx(HVAC) OK OK Rx(USM) OK OK JSNIA0080GB

#### AV COMM Diagnosis

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

Items	Status (Current)	Counter (Past)
C Tx(ITM-SW)	OK / UNKWN	OK / 0 - 39
C Rx(PrimarySW-ITM)	OK / UNKWN	OK / 0 - 39
C Rx(RearCamera-ITM)	OK / UNKWN	OK / 0 - 39
C Rx(DVD-ITM)	OK / UNKWN	OK / 0 - 39
C Rx(Video Dist-ITM)	OK / UNKWN	OK / 0 - 39
C Rx(Remote Cont-ITM)	OK / UNKWN	OK / 0 - 39
C Rx(BTHF–ITM)	OK / UNKWN	OK / 0 - 39
C Rx(iPod AdptITM)	OK / UNKWN	OK / 0 - 39
C Rx(DVDAudio-ITM)	OK / UNKWN	OK / 0 - 39

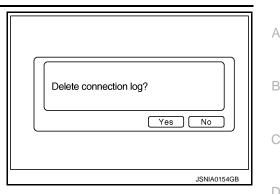
**Delete Unit Connection Log** 



#### < SYSTEM DESCRIPTION >

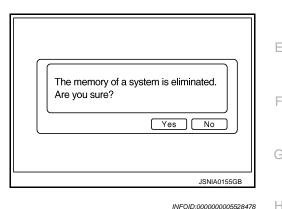
#### [BOSE AUDIO WITHOUT NAVIGATION]

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



Initialize Settings

Initializes the AV control unit memory.



### CONSULT-III Function (MULTI AV)

# CONSULT-III functions

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

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

#### AV COMMUNICATION

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

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

#### **ECU IDENTIFICATION**

The part number of AV control unit is displayed.

#### SELF DIAGNOSIS RESULT

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

## Self-diagnosis Results Display Item

Error item	Description	Possible malfunction factor/Action to take
CAN COMM CIRCUIT [U1000]	CAN communication malfunction is detected.	Refer to AV-93, "Description".

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## < SYSTEM DESCRIPTION >

# [BOSE AUDIO WITHOUT NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take	
CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.		
CONTROL UNIT (AV) [U1310]	AV communication circuit initial diagnosis malfunction is detected.	Replace the AV control unit	
Cont Unit FLASH-ROM [U1200]	AV control unit malfunction is detected.		
CAN CONT [U1216]	Av control unit manufiction is detected.		
FRONT DISP CONN [U1243]	<ul> <li>When either one of the following items are detected:</li> <li>front display unit power supply and ground circuits are malfunctioning.</li> <li>serial communication circuits between AV control unit and front display unit are malfunctioning.</li> <li>serial communication signal between AV control unit and front display unit is malfunctioning.</li> </ul>	<ul> <li>Front display unit power supply and ground circuits.</li> <li>Serial communication circuits between AV control unit and front display unit.</li> </ul>	
REAR DISP CONN [U1247]	<ul> <li>When either one of the following items are detected:</li> <li>rear display unit power supply and ground circuits are malfunctioning.</li> <li>serial communication circuits between video distributor and rear display unit are malfunctioning.</li> <li>serial communication signal between video distributor and rear display unit is malfunctioning.</li> </ul>	<ul> <li>Rear display unit power supply and ground circuits.</li> <li>Serial communication circuits between video distributor and rear display unit.</li> </ul>	
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.	
SAT CONN [U1255]	<ul> <li>When either one of the following items are detected:</li> <li>satellite radio tuner power supply and ground circuits are malfunctioning.</li> <li>serial communication circuits between AV control unit and satellite radio tuner are malfunctioning.</li> <li>serial communication or request signal between AV control unit and satellite radio tuner is malfunctioning.</li> <li>request signal circuit between AV control unit and satellite radio tuner is malfunctioning.</li> </ul>	<ul> <li>Satellite radio tuner power supply and ground circuits.</li> <li>Serial communication circuits between AV control unit and satellite radio tuner.</li> <li>Request signal circuit between AV control unit and satellite radio tuner.</li> </ul>	
AV COMM CIRCUIT [U1300]     SWITCH CONN [U1240]	<ul> <li>When either one of the following items are detected:</li> <li>multifunction switch power supply and ground circuits are malfunctioning.</li> <li>AV communication circuits between AV control unit and multifunction switch are malfunctioning.</li> <li>AV communication signal between AV control unit and multifunction switch is malfunctioning.</li> </ul>	<ul> <li>Multifunction switch power supply and ground circuits.</li> <li>AV communication circuits between AV control unit and multifunction switch.</li> </ul>	
AV COMM CIRCUIT [U1300]     VIDEO DIST CONN [U1246]	<ul> <li>When either one of the following items are detected:</li> <li>video distributor power supply and ground circuits are malfunctioning.</li> <li>AV communication signal between AV control unit and video distributor is malfunctioning.</li> </ul>	Video distributor power supply and ground circuits.	

## < SYSTEM DESCRIPTION >

# [BOSE AUDIO WITHOUT NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
AV COMM CIRCUIT [U1300]     DVD DECK CONN [U1248]	When either one of the following items are detected:  DVD player power supply and ground circuits are malfunctioning.  AV communication signal between AV control unit and DVD player is malfunctioning.	DVD player power supply and ground circuits.
AV COMM CIRCUIT [U1300]     REAR CAMERA LAN CONN [U1252]	<ul> <li>When either one of the following items are detected:</li> <li>camera control unit power supply and ground circuits are malfunctioning.</li> <li>AV communication signal between AV control unit and camera control unit is malfunctioning.</li> <li>AV communication circuits between multifunction switch and camera control unit is malfunctioning. (Without DVD entertainment system models)</li> </ul>	Camera control unit power supply and ground circuits.     AV communication circuits between multifunction switch and camera control unit. (Without DVD entertainment system models)
AV COMM CIRCUIT [U1300]     IPod CONN [U1254]	<ul> <li>When either one of the following items are detected:</li> <li>iPod adapter power supply and ground circuits are malfunctioning.</li> <li>AV communication circuits between multifunction switch and iPod adapter are malfunctioning.</li> <li>AV communication signal between AV control unit and iPod adapter is malfunctioning.</li> </ul>	<ul> <li>iPod adapter power supply and ground circuits.</li> <li>AV communication circuits between multifunction switch unit and iPod adapter.</li> </ul>
AV COMM CIRCUIT [U1300]     HAND FREE CONN [U1256]	When either one of the following items are detected:  TEL adapter unit power supply and ground circuits are malfunctioning.  AV communication circuits between camera control unit and TEL adapter unit are malfunctioning.  AV communication signal between AV control unit and TEL adapter unit is malfunctioning.	<ul> <li>TEL adapter unit power supply and ground circuits.</li> <li>AV communication circuits between camera control unit and TEL adapter unit.</li> <li>AV communication circuits between multifunction switch and TEL adapter unit. (without rear view camera models)</li> </ul>
<ul> <li>AV COMM CIRCUIT [U1300]</li> <li>REAR CAMERA LAN CONN [U1252]</li> <li>HAND FREE CONN [U1256][*]</li> </ul>	When either one of the following items are detected:  AV communication circuits between multifunction switch and camera control unit are malfunctioning. (without DVD player models)  AV communication circuits between DVD player and camera control unit are malfunctioning. (with DVD player models)	AV communication circuits between multifunction switch and camera control unit. (without DVD player models)     AV communication circuits between DVD player and camera control unit. (with DVD player models)  A
<ul> <li>AV COMM CIRCUIT [U1300]</li> <li>DVD DECK CONN [U1248]</li> <li>REAR CAMERA LAN CONN [U1252]</li> <li>HAND FREE CONN [U1256]</li> </ul>	Malfunction is detected in AV communication circuits between video distributor and DVD player.	AV communication circuits between video distributor and DVD player.
<ul> <li>AV COMM CIRCUIT [U1300]</li> <li>VIDEO DIST CONN [U1246]</li> <li>DVD DECK CONN [U1248]</li> <li>REAR CAMERA LAN CONN [U1252]</li> <li>IPod CONN [U1254]</li> <li>HAND FREE CONN [U1256]</li> </ul>	Malfunction is detected in AV communication circuits between multifunction switch and iPod adapter.	AV communication circuits between multi- function switch and iPod adapter.
<ul> <li>AV COMM CIRCUIT [U1300]</li> <li>VIDEO DIST CONN [U1246]</li> <li>DVD DECK CONN [U1248]</li> <li>REAR CAMERA LAN CONN [U1252]</li> <li>HAND FREE CONN [U1256]</li> </ul>	Malfunction is detected in AV communication circuits between multifunction switch and video distributor.	AV communication circuits between multi- function switch and video distributor.

# < SYSTEM DESCRIPTION >

## [BOSE AUDIO WITHOUT NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
AV COMM CIRCUIT [U1300] SWITCH CONN [U1240] IPOD CONN [U1254]* HAND FREE CONN [U1256]*  AV COMM CIRCUIT [U1300] SWITCH CONN [U1240] VIDEO DIST CONN [U1246] DVD DECK CONN [U1248] REAR CAMERA LAN CONN [U1252] IPOD CONN [U1254] HAND FREE CONN [U1256]	When either one of the following items are detected:  • AV communication circuits between AV control unit and the branch point multifunction switch.  • AV communication circuits are malfunctioning.	<ul> <li>AV communication circuits between AV control unit and the branch point multifunction switch.</li> <li>Check and repair the short circuit in AV communication circuits.</li> </ul>

#### NOTE:

#### **DATA MONITOR**

#### **ALL SIGNALS**

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

Display Item	Dis- play	Vehicle status	Remarks
VHCL SPD SIG	On	Vehicle speed >0 km/h (0 MPH)	
VHOL SED SIG	Off	Vehicle speed =0 km/h (0 MPH)	Changes in indication may be delayed. This is nor-
PKB SIG	On	Parking brake is applied.	mal.
PND SIG	Off	Parking brake is released.	
ILLUM SIG	On	Light switch ON	
	Off	Light switch OFF	
IGN SIG	On	Ignition switch ON	<del></del>
IGN SIG		Ignition switch in ACC position	
REV SIG	On	Shift the selector lever to the "R" position	Changes in indication may be delayed. This is nor-
	Off	Shift the selector lever other than the "R" position	mal.

#### **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	
PKB SIG	
ILLUM SIG	The same as when "ALL SIGNALS" is selected.
IGN SIG	
REV SIG	

^{*:} Non-equipped item is not displayed.

## **DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)**

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITHOUT NAVIGATION]

# DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

## **Diagnosis Description**

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#### HANDS-FREE PHONE SYSTEM ON BOARD DIAGNOSIS

During on board diagnosis the diagnosis function of TEL adapter unit starts with the operation of the steering switch and performs the diagnosis when ignition switch ACC.

#### On board diagnosis item

The on board diagnosis has 3 modes: the self-diagnosis mode that performs the trouble diagnosis, the speaker adaptation data deleting mode and the hands-free phone system initialization mode.

CAUTION:

- Perform the diagnosis with the vehicle stopped.
- Perform STEP2 if necessary.

STEP	MODE	Description
STEP1	Self-diagnosis	<ul> <li>The self-diagnosis mode performs the microphone test.</li> <li>The self-diagnosis mode also diagnoses TEL adapter unit, TEL antenna and steering switch.</li> <li>Those results are indicated with voice guidance and displayed on the screen.</li> </ul>
STFP2	Speaker adaptation data deleting	The speaker adaptation data deleting mode can delete the speaker adaptation data.
SIEPZ	Hands-free phone system initialization	Hands-free phone system initialization mode can perform the initialization of hands-free phone system.

#### Self-diagnosis results

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

#### NOTE

- Error count is read out simultaneously when reading out the DTC name.
- The errors are read out continuously when some errors occur at the same time. The DTC displays are combined and displayed. For example, DTC 01100 is displayed when DTC 01000 and DTC 00100 are indicated at the same time.

Self-diagnosis results

The analysis are a second			
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	i ⊑∟ antenna 	
DTC 00010	STEERING REMOTE BUTTON STUCK A	Steering switch	
DTC 00001			
DTC 00000	THERE ARE NO FAILURE RECORDS TO REPORT	_	

The details of error count

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

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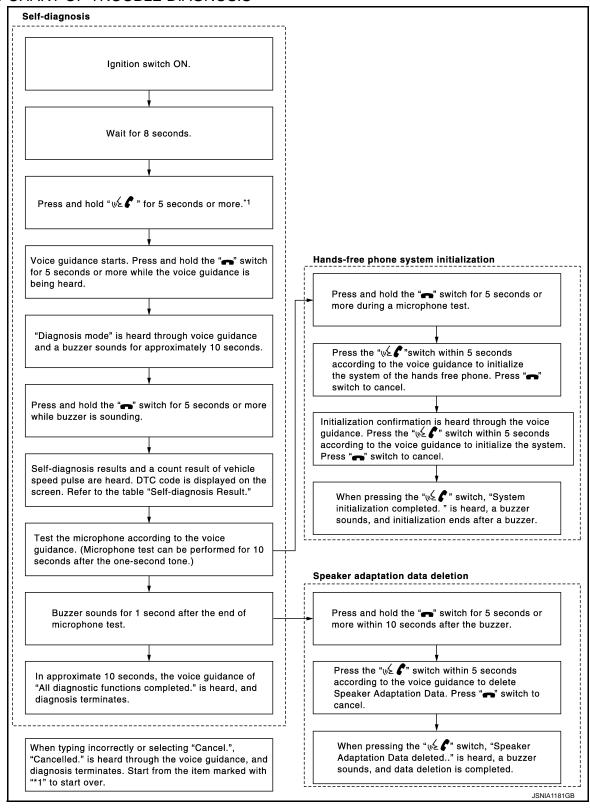
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#### FLOW CHART OF TROUBLE DIAGNOSIS



### **U1000 CAN COMM CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# DTC/CIRCUIT DIAGNOSIS

## U1000 CAN COMM CIRCUIT

Description INFOID:0000000005528480

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 Communication Signal Chart".

DTC Logic INFOID:0000000005528481

#### DTC DETECTION LOGIC

DTC	Display contents of CON- SULT-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:0000000005528482

## 1.PERFORM SELF-DIAGNOSTIC

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

#### Is "CAN COMM CIRCUIT" displayed?

YES >> Refer to "LAN system". Refer to LAN-17, "Trouble Diagnosis Flow Chart".

>> Refer to GI section. Refer to GI-39, "Intermittent Incident". NO

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# **U1010 CONTROL UNIT (CAN)**

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# U1010 CONTROL UNIT (CAN)

Description INFOID:0000000005528483

Initial diagnosis of AV control unit.

DTC Logic

### DTC DETECTION LOGIC

DTC	Display contents of CON- SULT-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:0000000005528485

# 1. REPLACE AV CONTROL UNIT

When DTC U1010 is detected, replace AV control unit.

>> INSPECTION END

# U1310 AV CONTROL UNIT

**Description** 

Replace the AV control unit if this DTC is displayed. Refer to AV-534, "Exploded View".

Part name	Description
	<ul> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> </ul>
	<ul> <li>AV control unit includes audio function and vehicle information function.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> </ul>
	<ul> <li>It inputs the illumination signals that are required for the display dimming control.</li> </ul>
AV CONTROL UNIT	<ul> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> </ul>
	<ul> <li>The camera image signal is input from the camera control unit. The AV control unit outputs camera image signal to the front display unit.</li> </ul>
	BOSE amp. ON signal and sound signal are transmitted to BOSE amp.
	<ul> <li>Power (signal VCC and inverter VCC) is transmitted to front display.</li> <li>Without DVD entertainment system</li> </ul>
	<ul> <li>Auxiliary image and auxiliary sound signals are input from the auxiliary input jacks.</li> </ul>
	With DVD entertainment system
	<ul> <li>Composite image signal (auxiliary and DVD images) is input from the video distributor.</li> </ul>
	<ul> <li>Sound signal (DVD and auxiliary sounds) is input from the DVD player.</li> </ul>

DTC Logic

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

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# **U1200 AV CONTROL UNIT**

Description INFOID:0000000005528488

Replace the AV control unit if this DTC is displayed. Refer to AV-534, "Exploded View".

Part name	Description		
AV CONTROL UNIT	<ul> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>AV control unit includes audio function and vehicle information function.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>The camera image signal is input from the camera control unit. The AV control unit outputs camera image signal to the front display unit.</li> <li>BOSE amp. ON signal and sound signal are transmitted to BOSE amp.</li> <li>Power (signal VCC and inverter VCC) is transmitted to front display. Without DVD entertainment system</li> <li>Auxiliary image and auxiliary sound signals are input from the auxiliary input jacks. With DVD entertainment system</li> <li>Composite image signal (auxiliary and DVD images) is input from the video distributor.</li> <li>Sound signal (DVD and auxiliary sounds) is input from the DVD player.</li> </ul>		

DTC Logic

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**

Description INFOID:0000000005528490

Replace the AV control unit if this DTC is displayed. Refer to AV-534, "Exploded View".

Part name	Description
	<ul> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> </ul>
	<ul> <li>AV control unit includes audio function and vehicle information function.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> </ul>
	<ul> <li>It inputs the illumination signals that are required for the display dimming control.</li> </ul>
AV CONTROL UNIT	• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).
	<ul> <li>The camera image signal is input from the camera control unit. The AV control unit outputs camera image signal to the front display unit.</li> </ul>
	BOSE amp. ON signal and sound signal are transmitted to BOSE amp.
	<ul> <li>Power (signal VCC and inverter VCC) is transmitted to front display.</li> <li>Without DVD entertainment system</li> </ul>
	<ul> <li>Auxiliary image and auxiliary sound signals are input from the auxiliary input jacks.</li> </ul>
	With DVD entertainment system
	<ul> <li>Composite image signal (auxiliary and DVD images) is input from the video distributor.</li> </ul>
	<ul> <li>Sound signal (DVD and auxiliary sounds) is input from the DVD player.</li> </ul>

DTC Logic

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

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## U1243 DISPLAY UNIT

Description

Part name	Description		
FRONT DISPLAY UNIT	<ul> <li>Front display image is controlled by the serial communication from AV control unit.</li> <li>It receives the power (signal VCC and inverter VCC) from the AV control unit and operates.</li> <li>RGB image signal is input from AV control unit (RGB, RGB area and RGB synchronizing).</li> <li>Synchronizing signal (HP, VP) is output to AV control unit.</li> <li>Camera image signal is input from AV control unit.</li> <li>Without DVD entertainment system</li> <li>Auxiliary image signal is input from AV control unit.</li> <li>With DVD entertainment system</li> <li>Composite image signal (auxiliary and DVD images) is input from the AV control unit.</li> </ul>		

DTC Logic

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1243	FRONT DISP CONN [U1243]	<ul> <li>When either one of the following items are detected:</li> <li>front display unit power supply and ground circuits are malfunctioning.</li> <li>serial communication circuits between AV control unit and front display unit are malfunctioning.</li> <li>serial communication signal between AV control unit and front display unit is malfunctioning.</li> </ul>	<ul> <li>Front display unit power supply and ground circuits.</li> <li>Serial communication circuits between AV control unit and front display unit.</li> </ul>

# Diagnosis Procedure

INFOID:0000000005528494

# 1.CHECK DISPLAY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check front display unit power supply and ground circuit. Refer to <u>AV-107</u>, "FRONT 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 front display unit connector and AV control unit connector.
- 3. Check continuity between front display unit harness connector and AV control unit harness connector.

Front display unit		AV control unit		Continuity	
Connector	Terminals	Connector Terminals		Continuity	
M49	11	M129	56	Existed	
10149	22	101129	44	LAISIEU	

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

Front display unit			Continuity
Connector	Terminals	- Ground -	Continuity
M49	11		Not existed
	22		

## **U1243 DISPLAY UNIT**

[BOSE AUDIO WITHOUT NAVIGATION]

## < DTC/CIRCUIT DIAGNOSIS > Is the inspection result normal?

>> GO TO 3. YES

NO >> Repair harness or connector.

# 3. CHECK COMMUNICATION SIGNAL

- Connect front display unit connector and AV control unit connector.
- 2. Turn ignition switch ON.
- Check signal between front display unit harness connector and ground using an oscilloscope.

(+) Front display unit		(-)	Condition	Signal
Connector				Ŭ
M49	11	Ground	When adjusting display bright ness.	(V) 6 4 2 0 → 1 ms PKIB5039J

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

## 4. CHECK COMMUNICATION SIGNAL

Check signal between front display unit harness connector and ground using an oscilloscope.

(+) Front display unit		(-)	Condition	Signal
Connector	Terminal			
M49	22	Ground	When adjusting display bright ness.	(V) 6 4 2 0  ++1ms  PKIB5039J

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front display unit.

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## U1247 REAR DISP CONN

**Description** 

Part name	Description
REAR DISPLAY UNIT	<ul> <li>The rear display unit has functions of remote control receiver and headphone amp.</li> <li>Transmits the headphone sound signal when receiving headphone ON signal from the video distributor.</li> <li>Headphone sound signal is input from DVD player via hard wires and outputs the signal to headphones via infrared wireless communication.</li> <li>Receives the operation signal from the remote controller and transmits the signal to the video distributor via serial communication.</li> <li>Rear display image is controlled by the serial communication from video distributor.</li> <li>RGB image signal is input from video distributor (RGB image and RGB area). Composite image signal (DVD and auxiliary images) is input from the video distributor.</li> <li>Synchronize signal (HP, VP) is output to video distributor.</li> </ul>

DTC Logic

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1247	REAR DISP CONN [U1247]	<ul> <li>When either one of the following items are detected:</li> <li>rear display unit power supply and ground circuits are malfunctioning.</li> <li>serial communication circuits between video distributor and rear display unit are malfunctioning.</li> <li>serial communication signal between video distributor and rear display unit is malfunctioning.</li> </ul>	<ul> <li>Rear display unit power supply and ground circuits.</li> <li>Serial communication circuits between video distributor and rear display unit.</li> </ul>

# Diagnosis Procedure

INFOID:0000000005528497

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

Check rear display unit power supply and ground circuits. Refer to <u>AV-108, "REAR DISPLAY UNIT : Diagnosis Procedure"</u>.

#### <u>Is the inspection result normal?</u>

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

# 2. CHECK CONTINUITY SERIAL COMMUNICATION CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect rear display unit connector and video distributor connector.
- 3. Check continuity between rear display unit harness connector and video distributor harness connector.

Rear display unit		Video distributor		Continuity
Connector	Terminals	Connector	Terminals	Continuity
R152	9	M257	39	Existed
K152	10	IVIZOT	40	Existed

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

## **U1247 REAR DISP CONN**

## [BOSE AUDIO WITHOUT NAVIGATION]

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#### < DTC/CIRCUIT DIAGNOSIS >

Rear display unit			Continuity
Connector	Terminals	Ground	Continuity
R152	9	Giodila	Not existed
	10		Not existed

## Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

# 3.CHECK SERIAL COMMUNICATION SIGNAL

- 1. Connect rear display unit connector and video distributor connector.
- 2. Turn ignition switch ON.
- 3. Check signal between rear display unit harness connector and ground using an oscilloscope.

(+) Front display unit		(-) Condition		Signal
Connector	Terminal			
R152	9	Ground	Rear seat remote controller operation.	(V) 6 4 2 0 + 1 ms PKIB5039J

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear display unit.

## 4. CHECK SERIAL COMMUNICATION SIGNAL

Check signal between rear display unit harness connector and ground using an oscilloscope.

(+) Front display unit		(-)	Condition	Signal
Connector	Terminal			
R152	10	Ground	Rear seat remote controller operation.	(V) 6 4 2 0 → 1 ms PKIB5039J

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace video distributor.

## **U1250 CAMERA CONTROL UNIT**

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

## U1250 CAMERA CONTROL UNIT

**Description** 

Part name	Description
CAMERA CONTROL UNIT	<ul> <li>Camera image signal is input from rear view camera. Camera image signal output to AV control unit.</li> <li>Power (camera ON signal) is transmitted to rear view camera.</li> <li>AV control unit recognizes the presence of camera system with camera connection recognition signal.</li> <li>Camera control unit is connected via AV communication.</li> </ul>

DTC Logic

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

# Diagnosis Procedure

INFOID:0000000005528500

# 1. CHECK CAMERA-CONNECTION RECOGNITION SIGNAL CIRCUIT

- 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		Continuity
M130	68	B60	14	Existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2.CHECK AV CONTROL UNIT VOLTAGE

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

(+)			V. K
AV control unit		(–)	Voltage (Approx.)
Connector	Terminal		,
M130	68	Ground	5.0 V

#### Is the inspection result normal?

YES >> Replace camera control unit.

NO >> Replace AV control unit.

## **U1255 SATELLITE RADIO TUNER**

Description INFOID:0000000005528501

Part name	Description	
SATELLITE RADIO TUNER	<ul> <li>Inputs the satellite radio signal from satellite radio antenna and outputs the sound signal to the AV control unit.</li> <li>It is controlled with the AV control unit and serial communication (communication signal and request signal).</li> </ul>	

**DTC** Logic INFOID:0000000005528502 D

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes	
U1255	SAT CONN [U1255]	When either one of the following items are detected:  satellite radio tuner power supply and ground circuits are malfunctioning.  serial communication circuits between AV control unit and satellite radio tuner are malfunctioning.  serial communication or request signal between AV control unit and satellite radio tuner is malfunctioning.  request signal circuit between AV control unit and satellite radio tuner is malfunctioning.	Satellite radio tuner power supply and ground circuits.     Serial communication circuits between AV control unit and satellite radio tuner.     Request signal circuit between AV control unit and satellite radio tuner.	

## Diagnosis Procedure

INFOID:0000000005528503

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

Check satellite radio tuner power supply and ground circuit. Refer to AV-113, "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 terminals and satellite radio tuner harness connector terminals.

AV control unit		Satellite radio tuner		Continuity
Connector	Connector Terminals		Terminals	Continuity
	28		8	
M128	29	B48	9	Existed
	30		10	

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

AV control unit			Continuity
Connector	Terminals		Continuity
	28	Ground	
M128	29		Not existed
	30		

Is the inspection result normal?

>> GO TO 3. YES

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## **U1255 SATELLITE RADIO TUNER**

#### < DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

NO >> Repair harness or connector.

# 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 terminal and ground.

(+) AV control unit		(-)	Voltage (Approx.)	
Connector	Terminals			
M128	28	Ground	7.0 V	
IVI I Z8	29	Giodila	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 terminal ground.

(+)			
Satellite radio tuner		(–)	Voltage (Approx.)
Connector	Terminal	,	(11 - )
B48	10	Ground	7.0 V

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace satellite radio tuner.

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## U1300 AV COMM CIRCUIT

Description

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	AV COMM CIRCUIT [U1300]     SWITCH CONN [U1240]	When either one of the following items are detected:  multifunction switch power supply and ground circuits are malfunctioning.  AV communication circuits between AV control unit and multifunction switch are malfunctioning.  AV communication signal between AV control unit and multifunction switch is malfunctioning.	Multifunction switch power supply and ground circuits.     AV communication circuits be- tween AV control unit and multi- function switch.
U1300 U1246	AV COMM CIRCUIT [U1300]     VIDEO DIST CONN [U1246]	When either one of the following items are detected:  video distributor power supply and ground circuits are malfunctioning.  AV communication signal between AV control unit and video distributor is malfunctioning.	Video distributor power supply and ground circuits.
U1300 U1248	AV COMM CIRCUIT [U1300]     DVD DECK CONN [U1248]	<ul> <li>When either one of the following items are detected:</li> <li>DVD player power supply and ground circuits are malfunctioning.</li> <li>AV communication signal between AV control unit and DVD player is malfunctioning.</li> </ul>	DVD player power supply and ground circuits.
U1300 U1252	AV COMM CIRCUIT [U1300]     REAR CAMERA LAN CONN [U1252]	When either one of the following items are detected:  camera control unit power supply and ground circuits are malfunctioning.  AV communication signal between AV control unit and camera control unit is malfunctioning.  AV communication circuits between multifunction and camera control unit is malfunctioning. (Without DVD entertainment system models)	Camera control unit power supply and ground circuits.     AV communication circuits between multifunction and camera control unit. (Without DVD entertainment system models)
U1300 U1254	AV COMM CIRCUIT [U1300]     IPod CONN [U1254]	<ul> <li>When either one of the following items are detected:</li> <li>iPod adapter power supply and ground circuits are malfunctioning.</li> <li>AV communication circuits between multifunction switch and iPod adapter are malfunctioning.</li> <li>AV communication signal between AV control unit and iPod adapter is malfunctioning.</li> </ul>	<ul> <li>iPod adapter power supply and ground circuits.</li> <li>AV communication circuits between multifunction switch unit and iPod adapter.</li> </ul>
U1300 U1256	AV COMM CIRCUIT [U1300]     HAND FREE CONN [U1256]	When either one of the following items are detected:  TEL adapter unit power supply and ground circuits are malfunctioning.  AV communication circuits between camera control unit and TEL adapter unit are malfunctioning.  AV communication signal between AV control unit and TEL adapter unit is malfunctioning.	<ul> <li>TEL adapter unit power supply and ground circuits.</li> <li>AV communication circuits between camera control unit and TEL adapter unit.</li> <li>AV communication circuits between multifunction switch and TEL adapter unit. (without rear view camera models)</li> </ul>
U1300 U1252 U1256 [*]	AV COMM CIRCUIT [U1300]     REAR CAMERA LAN     CONN [U1252]     HAND FREE CONN [U1256]*	When either one of the following items are detected:  AV communication circuits between multifunction switch and camera control unit are malfunctioning. (without DVD player models)  AV communication circuits between DVD player and camera control unit are malfunctioning. (with DVD player models)	AV communication circuits between multifunction switch and camera control unit. (without DVD player models)     AV communication circuits between DVD player and camera control unit. (with DVD player models)

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## **U1300 AV COMM CIRCUIT**

## < DTC/CIRCUIT DIAGNOSIS >

## [BOSE AUDIO WITHOUT NAVIGATION]

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1300 U1248 U1252 U1256	AV COMM CIRCUIT [U1300]     DVD DECK CONN [U1248]     REAR CAMERA LAN CONN [U1252]     HAND FREE CONN [U1256]	Malfunction is detected in AV communication circuits between video distributor and DVD player.	AV communication circuits between video distributor and DVD player.
U1300 U1246 U1248 U1252 U1256	AV COMM CIRCUIT [U1300] VIDEO DIST CONN [U1246] DVD DECK CONN [U1248] REAR CAMERA LAN CONN [U1252] HAND FREE CONN [U1256]	Malfunction is detected in AV communication circuits between multifunction switch and video distributor.	AV communication circuits between multifunction switch and video distributor.
U1300 U1246 U1248 U1252 U1254 U1256	AV COMM CIRCUIT [U1300]     VIDEO DIST CONN [U1246]     DVD DECK CONN [U1248]     REAR CAMERA LAN CONN [U1252]     IPOD CONN [U1254]     HAND FREE CONN [U1256]	Malfunction is detected in AV communication circuits between multifunction switch and iPod adapter.	AV communication circuits between multifunction switch and iPod adapter.
U1300 U1240 U1254 [*] U1256 [*]	<ul> <li>AV COMM CIRCUIT [U1300]</li> <li>SWITCH CONN [U1240]</li> <li>IPod CONN [U1254]*</li> <li>HAND FREE CONN [U1256]*</li> </ul>		
U1300 U1240 U1246 U1248 U1252 U1254 U1256	AV COMM CIRCUIT [U1300]     SWITCH CONN [U1240]     VIDEO DIST CONN [U1246]     DVD DECK CONN [U1248]     REAR CAMERA LAN CONN [U1252]     IPOD CONN [U1254]     HAND FREE CONN [U1256]	When either one of the following items are detected:  AV communication circuits between AV control unit and the branch point multifunction switch.  AV communication circuits are malfunctioning.	<ul> <li>AV communication circuits between AV control unit and the branch point multifunction switch.</li> <li>Check and repair the short circuit in AV communication circuits.</li> </ul>

#### NOTE

^{*:} Non-equipped item is not displayed.

## POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# POWER SUPPLY AND GROUND CIRCUIT AV CONTROL UNIT

AV CONTROL UNIT: Diagnosis Procedure

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### 1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	35
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 the 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	M127	19	OFF	
ACC power supply	IVITZI	7	ACC	Battery voltage
Ignition signal	M131	104	ON	

#### Is the inspection result normal?

YES >> GO TO 3.

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

## 3.CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- 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
Cround	M127	20	OFF Existed	
Ground	M131	85	- OFF	LAISIEU

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

### FRONT DISPLAY UNIT

# FRONT DISPLAY UNIT: Diagnosis Procedure

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

Check voltage between front display unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Inverter VCC	M49	2	ACC	9.0 V
Signal VCC		3		

#### Is the inspection result normal?

YES >> GO TO 4. NO >> GO TO 2.

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## POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# 2.check power supply circuit (continuity)

- 1. Turn ignition switch OFF.
- 2. Disconnect the harness connector between front display unit and AV control unit.
- Check continuity between front display unit harness connector M49 and AV control unit harness connector M129.

Signal name	Display unit (M49)	AV control unit (M129)	Continuity
Inverter VCC	2	59	Existed
Signal VCC	3	47	Existed

4. Check continuity between front display unit harness connector M49 and ground.

Signal name	Display unit (M49)	_	Continuity
Inverter VCC	2	Ground	Not existed
Signal VCC	3	Ground	Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

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

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Inverter VCC	M129	M130	ACC	9.0 V
Signal VCC	WITZ9	47		

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace AV control unit.

## 4. CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	M49	1	OFF	Existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

REAR DISPLAY UNIT

# REAR DISPLAY UNIT: Diagnosis Procedure

INFOID:0000000005528507

## 1. CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	35
Ignition switch ACC or ON	19

#### Is the inspection result normal?

YES >> GO TO 2.

#### < DTC/CIRCUIT DIAGNOSIS >

#### [BOSE AUDIO WITHOUT NAVIGATION]

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

#### 2. CHECK POWER SUPPLY CIRCUIT

Check voltage between rear display unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Detter in autor autority	R152	3	- OFF	
Battery power supply	K 132	4		Battery voltage
ACC power supply	R152	6	ACC	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between rear display unit and fuse.

# 3. CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- Disconnect rear display unit connector.
- Check continuity between rear display unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	R152	1	OFF	Existed
Oround	KIOZ	2	OH	Existed

#### Is the inspection result normal?

>> INSPECTION END

>> Repair harness or connector. NO

#### VIDEO DISTRIBUTOR

## VIDEO DISTRIBUTOR: Diagnosis Procedure

INFOID:0000000005528508

## 1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	35
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 the cause of malfunction before installing new fuse.

#### 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between video distributor harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply		54	OFF	
ACC power supply	M255	55	ACC	Battery voltage
Ignition signal		56	ON	

#### Is the inspection result normal?

YES

>> Check harness between video distributor and fuse. NO

# 3.CHECK GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect video distributor connector.

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#### < DTC/CIRCUIT DIAGNOSIS >

#### [BOSE AUDIO WITHOUT NAVIGATION]

3. Check continuity between video distributor harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
	M258	15		Existed
Ground		16	OFF	
Giodila	M256	51	OIT	LXISIGU
	M255	53		

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

**DVD PLAYER** 

DVD PLAYER: Diagnosis Procedure

INFOID:0000000005528509

INFOID:0000000005528510

#### 1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	35
Ignition switch ACC or ON	19

#### Is the inspection result normal?

YES >> GO TO 2.

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

## 2. CHECK POWER SUPPLY CIRCUIT

Check voltage between DVD player harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	M254	2	OFF	Battery voltage
ACC power supply	IVIZOT	4	ACC	Dattery Voltage

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between DVD player and fuse.

# 3. CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	M254	1	OFF	Existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

#### MULTIFUNCTION SWITCH

#### MULTIFUNCTION SWITCH: Diagnosis Procedure

#### 1.CHECK FUSE

Check for blown fuses.

#### **IBOSE AUDIO WITHOUT NAVIGATION**

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	Power source		Fuse No.	
Ignitio	on switch ACC or ON		19	
s the inspection resu	t normal?	l l		
YES >> GO TO 2				
	o eliminate the cause o	of malfunction befor	e installing new fuse.	
CHECK POWER S				
Sheck voltage betwee	en multifunction switch	harness connector	and ground.	
Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
ACC power supply	M125	3	ACC	Battery voltage
s the inspection resu	t normal?			
YES >> GO TO 3				
	rness between multifu	nction switch and fu	ise.	
3.CHECK GROUND	CIRCUIT			
. Turn ignition swite				
	unction switch connect		nooton ond arrainad	
. Check continuity	between multifunction	switch narness con	nector and ground.	
	Connector No.	Terminal No.	1 1 11 11 11	
Signal name	Connector No.	reminal No.	Ignition switch position	Continuity
Signal name Ground	M125	1	OFF	Continuity Existed
Ground	M125			<u> </u>
Ground s the inspection resu	M125 It normal?			<u> </u>
Ground  s the inspection resu  YES >> INSPECT	M125 It normal? TON END			<u> </u>
Ground  s the inspection resu  YES >> INSPECT	M125 It normal?			<u> </u>
Ground  Sthe inspection results  YES >> INSPECT  NO >> Repair has  BOSE AMP.	M125 It normal? TION END arness or connector.	1		<u> </u>
Ground  Sthe inspection results  YES >> INSPECT  NO >> Repair has  BOSE AMP.	M125 It normal? TON END	1		<u> </u>
Ground  Sthe inspection results  YES >> INSPECT  NO >> Repair has  BOSE AMP.	M125 It normal? TION END arness or connector.	1		Existed
Ground  Sthe inspection results YES >> INSPECT NO >> Repair has BOSE AMP.  CHECK FUSE	M125 It normal? TON END Arness or connector.  agnosis Procedure	1		Existed
Ground  s the inspection resulves YES >> INSPECT NO >> Repair has BOSE AMP.  BOSE AMP. : Dia	M125 It normal? TON END Arness or connector.  agnosis Procedure	1		Existed
Ground  Sthe inspection results YES >> INSPECT NO >> Repair has BOSE AMP.  CHECK FUSE	M125 It normal? TON END Arness or connector.  agnosis Procedure	1		Existed
Ground  Sthe inspection results YES >> INSPECT NO >> Repair has BOSE AMP.  CHECK FUSE	M125 It normal? TON END Arness or connector. Agnosis Procedure	1	OFF	Existed
Ground  Sthe inspection results YES >> INSPECT NO >> Repair has BOSE AMP.  CHECK FUSE	M125  It normal? FION END Arness or connector.  Agnosis Procedure  Battery	1	OFF  Fuse No.	Existed
Ground  Sthe inspection resurves  YES >> INSPECT NO >> Repair has BOSE AMP.  BOSE AMP. : Dia CHECK FUSE Check for blown fuses  Sthe inspection resurves  YES >> GO TO 2	M125 It normal? TON END Arness or connector.  Agnosis Procedure  Battery It normal?	1	Fuse No. 23, 24	Existed
Ground  Sthe inspection results  YES >> INSPECT  NO >> Repair has  BOSE AMP.  CHECK FUSE  Check for blown fuses  Sthe inspection results  YES >> GO TO 2  NO >> Be sure to	M125  It normal? FION END Arness or connector.  Agnosis Procedure  Battery  It normal?  Co eliminate the cause of	1	Fuse No. 23, 24	Existed
Ground  Sthe inspection resurves  YES >> INSPECT NO >> Repair has BOSE AMP.  BOSE AMP. : Dia CHECK FUSE Check for blown fuses  Sthe inspection resurves  YES >> GO TO 2	M125  It normal? FION END Arness or connector.  Agnosis Procedure  Battery  It normal?  Co eliminate the cause of	1	Fuse No. 23, 24	Existed
Ground  Sthe inspection results  YES >> INSPECT NO >> Repair has  BOSE AMP.  BOSE AMP. : Dia  CHECK FUSE  Check for blown fuses  Sthe inspection results  YES >> GO TO 2 NO >> Be sure to  CHECK POWER S	M125  It normal? FION END Arness or connector.  Agnosis Procedure  Battery  It normal?  Co eliminate the cause of	e of malfunction befor	Fuse No. 23, 24 e installing new fuse.	Existed
Ground  Sthe inspection results  YES >> INSPECT NO >> Repair has  BOSE AMP.  BOSE AMP.: Dia  CHECK FUSE  Check for blown fuses  Sthe inspection results  YES >> GO TO 2 NO >> Be sure to  CHECK POWER S  Check voltage between	M125  It normal? TION END Arness or connector.  Agnosis Procedure  Battery It normal?  De eliminate the cause of SUPPLY CIRCUIT  En BOSE amp. harness	of malfunction befores connector and gro	Fuse No. 23, 24 e installing new fuse.	Existed  INFOID:0000000000
Ground  Sthe inspection results  YES >> INSPECT NO >> Repair has  BOSE AMP.  BOSE AMP. : Dia  CHECK FUSE  Check for blown fuses  Sthe inspection results  YES >> GO TO 2 NO >> Be sure to  CHECK POWER S	M125  It normal? FION END Arness or connector.  Agnosis Procedure  Battery  It normal?  Co eliminate the cause of SUPPLY CIRCUIT	of malfunction befores connector and grown Terminal No.	Fuse No. 23, 24 e installing new fuse.	Existed
Ground  Sthe inspection results  YES >> INSPECT NO >> Repair has  BOSE AMP.  BOSE AMP.: Dia  CHECK FUSE  Check for blown fuses  Sthe inspection results  YES >> GO TO 2 NO >> Be sure to  CHECK POWER S  Check voltage between	M125  It normal? TION END Arness or connector.  Agnosis Procedure  Battery It normal?  De eliminate the cause of SUPPLY CIRCUIT  En BOSE amp. harness	of malfunction befores connector and gro	Fuse No. 23, 24 e installing new fuse.	Existed  INFOID:0000000000

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between BOSE amp. and fuse.

# 3. CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- 2.
- Disconnect BOSE amp. connector.
  Check continuity between BOSE amp. harness connector and ground.

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#### < DTC/CIRCUIT DIAGNOSIS >

#### [BOSE AUDIO WITHOUT NAVIGATION]

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B224	7	OFF	Existed
Ground	D224	12	OH	LAISIEU

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

WOOFER

#### **WOOFER**: Diagnosis Procedure

INFOID:0000000005528512

## 1. CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	25

#### Is the inspection result normal?

YES >> GO TO 2.

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

#### 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between woofer amp. harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	B28	6	OFF	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between woofer amp. and fuse.

# 3.CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B28	5	OFF	Existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

iPod ADAPTER

## iPod ADAPTER: Diagnosis Procedure

INFOID:0000000005528513

#### 1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	35
Ignition switch ACC or ON	19

#### Is the inspection result normal?

YES >> GO TO 2.

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

#### < DTC/CIRCUIT DIAGNOSIS >

#### [BOSE AUDIO WITHOUT 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	M148	5	OFF	Battery voltage
ACC power supply	W1140	3	ACC	Dattery 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:0000000005528514

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#### 1. CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	35
Ignition switch ACC or ON	19

#### Is the inspection result normal?

YES >> GO TO 2.

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

#### 2. CHECK POWER SUPPLY CIRCUIT

Check voltage between satellite radio tuner harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	B48	12	OFF	Battery voltage
ACC power supply	D40	16	ACC	Dattery Voltage

#### Is the inspection result normal?

YES >> GO TO 3.

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

#### 3.CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect satellite radio tuner.
- 3. Check continuity between satellite radio tuner harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B48	15	OFF	Existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

#### TEL ADAPTER UNIT

#### TEL ADAPTER UNIT: Diagnosis Procedure

#### 1.CHECK FUSE

Check for blown fuses.

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INFOID:0000000005528515

#### < DTC/CIRCUIT DIAGNOSIS >

#### [BOSE AUDIO WITHOUT NAVIGATION]

Power source	Fuse No.
Battery	35
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 the 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		1	OFF	
ACC power supply	B39	2	ACC	Battery voltage
Ignition signal		3	ON	

#### Is the inspection result normal?

YES >> GO TO 3.

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

# 3. CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B39	4, 14, 20, 24	OFF	Existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

# RGB (R: RED) SIGNAL CIRCUIT (AV CONTROL UNIT TO FRONT DISPLAY UNIT)

#### < DTC/CIRCUIT DIAGNOSIS >

#### [BOSE AUDIO WITHOUT NAVIGATION]

# RGB (R: RED) SIGNAL CIRCUIT (AV CONTROL UNIT TO FRONT DISPLAY UNIT)

Description INFOID:0000000005528516

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

### Diagnosis Procedure

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

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

Front display unit		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M49	17	M129	40	Existed

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

Front display unit			Continuity
Connector	Terminal	Ground	Continuity
M49	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 front display unit connector and AV control unit connector.
- Turn ignition switch ON.
- 3. Check signal between front display unit harness connector and ground using an oscilloscope.

	+) splay unit	(-)	Condition	Signal
Connector	Terminal			
M49	17	Ground	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	(V) 0. 4 0 -0. 4 → 40μs SKIB2238J

#### Is the inspection result normal?

YES >> Replace front display unit.

NO >> Replace AV control unit.

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# RGB (G: GREEN) SIGNAL CIRCUIT (AV CONTROL UNIT TO FRONT DISPLAY UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# RGB (G: GREEN) SIGNAL CIRCUIT (AV CONTROL UNIT TO FRONT DISPLAY UNIT)

Description INFOID:0000000005528518

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

#### Diagnosis Procedure

INFOID:0000000005528519

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

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

Front display unit		AV control unit		Continuity
Connector	Terminal	Connector Terminal		Continuity
M49	6	M129	39	Existed

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

Front dis	splay unit		Continuity	
Connector	Terminal	Ground	Continuity	
M49	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 front display unit connector and AV control unit connector.
- 2. Turn ignition switch ON.
- 3. Check signal between front display unit harness connector and ground using an oscilloscope.

-	+) splay unit	(–)	Condition	Signal
Connector	Terminal			, and the second
M49	6	Ground	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	(V) 0. 4 0 -0. 4 → 40µs SKIB2236J

#### Is the inspection result normal?

YES >> Replace front display unit.

NO >> Replace AV control unit.

# RGB (B: BLUE) SIGNAL CIRCUIT (AV CONTROL UNIT TO FRONT DISPLAY UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# RGB (B: BLUE) SIGNAL CIRCUIT (AV CONTROL UNIT TO FRONT DIS-PLAY UNIT)

Description

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

### Diagnosis Procedure

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

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

Front dis	splay unit	AV control unit		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M49	18	M129	38	Existed	

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

Front dis	splay unit		Continuity
Connector	Terminal	Ground	Continuity
M49	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 front display unit connector and AV control unit connector.
- Turn ignition switch ON.
- 3. Check signal between front display unit harness connector and ground using an oscilloscope.

	+) splay unit	(–)	Condition	Signal
Connector	Terminal	. ,		3
M49	18	Ground	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	(V) 0. 4  0

#### Is the inspection result normal?

YES >> Replace front display unit.

NO >> Replace AV control unit.

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#### **RGB SYNCHRONIZING SIGNAL CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# **RGB SYNCHRONIZING SIGNAL CIRCUIT**

**Description** 

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

#### Diagnosis Procedure

INFOID:0000000005528523

# 1. CHECK CONTINUITY RGB SYNCHRONIZING SIGNAL CIRCUIT

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

Front display unit		AV control unit		Continuity
Connector	Terminal	Connector Terminal		Continuity
M49	19	M129	41	Existed

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

Front dis	splay unit		Continuity
Connector	Terminal	Ground	Continuity
M49	19		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2.CHECK RGB SYNCHRONIZING SIGNAL

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

	+) splay unit	(-)	Condition	Signal	
Connector	Terminal				
M49	19	Ground	_	(V) 4 0 → 20 µs SKIB3603E	

#### Is the inspection result normal?

YES >> Replace front display unit.

NO >> Replace AV control unit.

#### RGB AREA (YS) SIGNAL CIRCUIT (AV CONTROL UNIT TO FRONT DISPLAY UNIT)

#### < DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# RGB AREA (YS) SIGNAL CIRCUIT (AV CONTROL UNIT TO FRONT DIS-PLAY UNIT)

Description INFOID:0000000005528524

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

### Diagnosis Procedure

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

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

Front dis	Front display unit		trol unit	Continuity
Connector	Terminal	Connector Terminal		Continuity
M49	9	M129	43	Existed

Check continuity between front display unit harness connector and ground.

Front dis	splay unit		Continuity	
Connector	Terminal	Ground	Continuity	
M49	9		Not existed	

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2.CHECK RGB AREA (YS) SIGNAL

- Connect front display unit connector and AV control unit connector.
- 2. Turn ignition switch ON.
- Check signal between front display unit harness connector and ground using an oscilloscope.

(+)				
Front dis	play unit	(–)	Condition	Signal
Connector	Terminal			
			When RGB image is displayed.	Approx. 5.0 V
M49	9	Ground	When AUX image is displayed.	(V) 6 4 2 0 + + 200 μs

#### Is the inspection result normal?

YES >> Replace front display unit.

NO >> Replace AV control unit.

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#### HP SIGNAL CIRCUIT (FRONT DISPLAY UNIT TO AV CONTROL UNIT) [BOSE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

HP SIGNAL CIRCUIT (FRONT DISPLAY UNIT TO AV CONTROL UNIT)

Description INFOID:0000000005528526

In composite image (DVD image, AUX image, camera image), transmit the vertical synchronizing (VP) signal and horizontal synchronizing (HP) signal from front 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:0000000005528527

# ${f 1.}$ CHECK CONTINUITY HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

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

Front dis	splay unit	it AV control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M49	8	M129	45	Existed

Check continuity between front display unit harness connector and ground.

Front dis	splay unit		Continuity
Connector	Terminal	Ground	Continuity
M49	8		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2.CHECK HORIZONTAL SYNCHRONIZING (HP) SIGNAL

- Connect front display unit connector and AV control unit connector.
- Turn ignition switch ON.
- Check signal between front display unit harness connector and ground using an oscilloscope.

(+) Front display unit		(–)	Condition	Signal	
Connector	Terminal			1	
M49	8	Ground	_	(V) 4 0 → 20 µs SKIB3603E	

#### Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace front display unit.

#### **VP SIGNAL CIRCUIT (FRONT DISPLAY UNIT TO AV CONTROL UNIT)** [BOSE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

## VP SIGNAL CIRCUIT (FRONT DISPLAY UNIT TO AV CONTROL UNIT)

Description INFOID:0000000005528528

In composite image (DVD, AUX and camera image), transmit the vertical synchronizing (VP) signal and horizontal synchronizing (HP) signal from front 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

# 1.check continuity vertical synchronizing (VP) signal circuit

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

Front dis	splay unit	AV cor	trol unit	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M49	20	M129	57	Existed	

Check continuity between front display unit harness connector and ground.

Front dis	splay unit		Continuity
Connector	Terminal	Ground	Continuity
M49	20		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

## 2.CHECK VERTICAL SYNCHRONIZING (VP) SIGNAL

- Connect front display unit connector and AV control unit connector.
- Turn ignition switch ON.
- Check signal between front display unit harness connector and ground using an oscilloscope.

	+) splay unit	(-)	Condition	Signal	
Connector	Terminal				
M49	20	Ground	_	(V) 4 0 ++4ms SKIB3598E	

#### Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace front display unit.

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#### COMPOSITE IMAGE SIGNAL CIRCUIT (AV CONTROL UNIT TO FRONT DIS-PLAY UNIT)

#### < DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# COMPOSITE IMAGE SIGNAL CIRCUIT (AV CONTROL UNIT TO FRONT DISPLAY UNIT)

**Description** 

#### WITHOUT DVD ENTERTAINMENT SYSTEM

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

#### WITH DVD ENTERTAINMENT SYSTEM

AV control unit receives the image signal from the video distributor and camera control unit and then transmits the composite image signal (AUX, DVD and camera image) to the front display unit.

#### Diagnosis Procedure

INFOID:0000000005528531

## 1. CHECK CONTINUITY COMPOSITE IMAGE SIGNAL CIRCUIT

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

AV control unit		Front dis	splay unit	Continuity
Connector	Terminals	Connector	Terminals	Continuity
M129	36	M49	15	Existed
IVI 129	37	10149	4	Existed

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

Front dis	splay unit		Continuity
Connector	Terminal	Ground	Continuity
M49	15		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

## 2. CHECK COMPOSITE IMAGE SIGNAL

- 1. Connect AV control unit connector and front display unit connector.
- 2. Turn ignition switch ON.
- 3. Check signal between front display harness connector using an oscilloscope.

(	+)	(-)			
Front dis	splay unit	Front display unit		Condition	Signal
Connector	Terminal	Connector	Terminal		
M49	15	M49	4	When AUX, DVD or camera image is displayed on front display.	(V) 0. 4 0 -0. 4 → 40μs SKIB2251J

#### Is the inspection result normal?

YES >> Replace front display unit.

NO >> Replace AV control unit.

# COMPOSITE IMAGE SIGNAL CIRCUIT (VIDEO DISTRIBUTOR TO AV CONTROL UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# COMPOSITE IMAGE SIGNAL CIRCUIT (VIDEO DISTRIBUTOR TO AV CONTROL UNIT)

Description INFOID:0000000005528532

Video distributor receives the image signal from the DVD player and auxiliary input jack and then transmits it to the AV control unit and rear display unit.

#### Diagnosis Procedure

# 1. CHECK CONTINUITY COMPOSITE IMAGE SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect video distributor connector and AV control unit connector.
- Check continuity between video distributor harness connector and AV control unit harness connector.

Video distributor		AV control unit		Continuity
Connector	Terminals	Connector	Terminals	Continuity
M258	8	M130	66	Existed
IVIZOO	6	IVITOU	74	Existed

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

AV cor	ntrol unit		Continuity
Connector	Terminal	Ground	Continuity
M130	66		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2. CHECK COMPOSITE IMAGE SIGNAL

- 1. Connect video distributor connector and AV control unit connector.
- 2. Turn ignition switch ON.
- 3. Check signal between AV control unit harness connector using an oscilloscope.

	+) atrol unit	(–) AV control unit		Condition	Signal
Connector	Terminal	Connector	Terminal		
M130	66	M130	74	When AUX, DVD or camera image is displayed on front display.	0. 4 0 -0. 4 -0. 4 40μs

#### Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace video distributor.

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# COMPOSITE IMAGE SIGNAL CIRCUIT (VIDEO DISTRIBUTOR TO REAR DISPLAY UNIT)

#### < DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# COMPOSITE IMAGE SIGNAL CIRCUIT (VIDEO DISTRIBUTOR TO REAR DISPLAY UNIT)

**Description** 

Video distributor receives the image signal from the DVD player and auxiliary input jack and then transmits it to the AV control unit and rear display unit.

#### Diagnosis Procedure

INFOID:0000000005528535

# 1. CHECK CONTINUITY COMPOSITE IMAGE SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect video distributor connector and rear display unit connector.
- 3. Check continuity between video distributor harness connector and rear display unit harness connector.

Video d	Video distributor		splay unit	Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M257	34	R152	14	Existed	

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

Rear dis	splay unit		Continuity
Connector	Terminal	Ground	Continuity
R152	14		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

## 2. CHECK COMPOSITE IMAGE SIGNAL

- 1. Connect video distributor connector and rear display unit connector.
- 2. Turn ignition switch ON.
- 3. Check signal between rear display unit harness connector using an oscilloscope.

(+) Rear display unit		(-)	Condition	Signal
Connector	Terminal			
R152	14	Ground	When AUX, DVD or camera image is displayed on front display.	(V) 0. 4 0 -0. 4 → 40µs SKIB2251J

#### Is the inspection result normal?

YES >> Replace rear display unit.

NO >> Replace video distributor.

# RGB (R: RED) SIGNAL CIRCUIT (VIDEO DISTRIBUTOR TO REAR DISPLAY UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# RGB (R: RED) SIGNAL CIRCUIT (VIDEO DISTRIBUTOR TO REAR DISPLAY UNIT)

Description

Transmit the image displayed with video distributor with RGB signal to the rear display unit.

### Diagnosis Procedure

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

- 1. Turn ignition switch OFF.
- 2. Disconnect rear display unit connector and video distributor connector.
- 3. Check continuity between rear display unit harness connector and video distributor harness connector.

Rear display unit		Video distributor		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
R152	22	M257	25	Existed	

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

Rear display unit			Continuity
Connector	Terminal	Ground	Continuity
R152	22		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2.CHECK RGB (R: RED) SIGNAL

- 1. Connect rear display unit connector and video distributor connector.
- 2. Turn ignition switch ON.
- 3. Check signal between rear display unit harness connector and ground using an oscilloscope.

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Rear dis	play unit	(–)	Condition	Signal
Connector	Terminal			
R152	22	Ground	Rear seat remote controller operation when AUX or DVD image is displayed on rear display unit.	(V) 1 0 **5ms JSNIA0984ZZ

#### Is the inspection result normal?

YES >> Replace rear display unit.

NO >> Replace video distributor.

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# RGB (G: GREEN) SIGNAL CIRCUIT (VIDEO DISTRIBUTOR TO REAR DISPLAY UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# RGB (G: GREEN) SIGNAL CIRCUIT (VIDEO DISTRIBUTOR TO REAR DISPLAY UNIT)

**Description** 

Transmit the image displayed with video distributor with RGB signal to the rear display unit.

#### Diagnosis Procedure

INFOID:0000000005528539

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

- 1. Turn ignition switch OFF.
- 2. Disconnect rear display unit connector and video distributor connector.
- 3. Check continuity between rear display unit harness connector and video distributor harness connector.

Rear dis	Rear display unit		istributor	Continuity	
Connector	Terminal	Connector Terminal		Continuity	
R152	21	M257	26	Existed	

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

Rear display unit			Continuity
Connector	Terminal	Ground	Continuity
R152	21		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2.CHECK RGB (G: GREEN) SIGNAL

- 1. Connect rear display unit connector and video distributor connector.
- 2. Turn ignition switch ON.
- 3. Check signal between rear display unit harness connector and ground using an oscilloscope.

(+) Rear display unit		(–)	Condition	Signal
Connector	Terminal			
R152	21	Ground	Rear seat remote controller operation when AUX or DVD image is displayed on rear display unit.	(V) 1 0 +-5ms JSNIA0984ZZ

#### Is the inspection result normal?

YES >> Replace rear display unit.

NO >> Replace video distributor.

# RGB (B: BLUE) SIGNAL CIRCUIT (VIDEO DISTRIBUTOR TO REAR DISPLAY UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# RGB (B: BLUE) SIGNAL CIRCUIT (VIDEO DISTRIBUTOR TO REAR DISPLAY UNIT)

**Description** 

Transmit the image displayed with video distributor with RGB signal to the rear display unit.

#### Diagnosis Procedure

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

- 1. Turn ignition switch OFF.
- 2. Disconnect rear display unit connector and video distributor connector.
- 3. Check continuity between rear display unit harness connector and video distributor harness connector.

Rear display unit		Video d	istributor	Continuity
Connector	Terminal	Connector Terminal		Continuity
R152	20	M257	28	Existed

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

Rear display unit			Continuity
Connector	Terminal	Ground	Continuity
R152	20		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2.CHECK RGB (B: BLUE) SIGNAL

- 1. Connect rear display unit connector and video distributor connector.
- Turn ignition switch ON.
- 3. Check signal between rear display unit harness connector and ground using an oscilloscope.

-	+) splay unit	(-)	Condition	Signal
Connector	Terminal			
R152	20	Ground	Rear seat remote controller operation when AUX or DVD image is displayed on rear display unit.	(V) 2 0 ++25 μs JSNIA1090ZZ

#### Is the inspection result normal?

YES >> Replace rear display unit.

NO >> Replace video distributor.

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# COMPOSITE SYNCHRONIZING SIGNAL CIRCUIT (VIDEO DISTRIBUTOR TO REAR DISPLAY UNIT)

#### < DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# COMPOSITE SYNCHRONIZING SIGNAL CIRCUIT (VIDEO DISTRIBUTOR TO REAR DISPLAY UNIT)

Description INFOID:0000000005528542

Transmit the composite synchronizing signal to the rear display unit so as to synchronize the composite image displayed with video distributor.

#### Diagnosis Procedure

INFOID:0000000005528543

# 1. CHECK CONTINUITY COMPOSITE SYNCHRONIZING SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect rear display unit connector and video distributor connector.
- 3. Check continuity between rear display unit harness connector and video distributor harness connector.

Rear dis	Rear display unit		istributor	Continuity
Connector	Terminal	Connector Terminal		Continuity
R152	13	M257	33	Existed

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

Rear display unit			Continuity
Connector	Terminal	Ground	Continuity
R152	13		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2. CHECK COMPOSITE SYNCHRONIZING SIGNAL

- 1. Connect rear display unit connector and video distributor connector.
- 2. Turn ignition switch ON.
- 3. Check signal between rear display unit harness connector and ground using an oscilloscope.

(+) Rear display unit				
Rear dis	splay unit	(-)	Condition	Signal
Connector	Terminal			
R152	13	Ground	When AUX or DVD image is displayed on rear display unit.	(V) 4 0 → 20µs SKIB0825E

#### Is the inspection result normal?

YES >> Replace rear display unit.

NO >> Replace video distributor.

#### RGB AREA (YS) SIGNAL CIRCUIT (VIDEO DISTRIBUTOR TO REAR DISPLAY UNIT)

#### < DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# RGB AREA (YS) SIGNAL CIRCUIT (VIDEO DISTRIBUTOR TO REAR DIS-PLAY UNIT)

Description INFOID:0000000005528544

Transmits the display area of RGB image displayed by video distributor with RGB area (YS) signal to rear display unit.

### Diagnosis Procedure

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

- Turn ignition switch OFF.
- Disconnect rear display unit connector and video distributor connector. 2.
- Check continuity between rear display unit harness connector and video distributor harness connector.

Rear dis	splay unit	Video d	istributor	Continuity
Connector	Terminal	Connector Terminal		Continuity
R152	15	M257	32	Existed

Check continuity between rear display unit harness connector and ground.

Rear display unit			Continuity
Connector	Terminal	Ground	Continuity
R152	15		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2.CHECK RGB AREA (YS) SIGNAL

- Connect rear display unit connector and video distributor connector.
- 2. Turn ignition switch ON.
- Check signal between rear display unit harness connector and ground using an oscilloscope.

(+) Rear display unit		(–)	Condition	Signal
Connector	Terminal			
			When AUX or DVD image is displayed on rear display unit.	0 V
R152	15	Ground	Rear seat remote controller operation when AUX or DVD image is displayed on rear display unit.	(V) 6 4 2 0 → + 200 \(\mu\) s PKIB4948J

#### Is the inspection result normal?

YES >> Replace rear display unit.

NO >> Replace video distributor.

**AV-129** Revision: 2009 September 2010 Murano

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INFOID:0000000005528545

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#### **VP SIGNAL CIRCUIT (REAR DISPLAY UNIT TO VIDEO DISTRIBUTOR)** [BOSE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

## VP SIGNAL CIRCUIT (REAR DISPLAY UNIT TO VIDEO DISTRIBUTOR)

Description INFOID:0000000005528546

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

#### Diagnosis Procedure

INFOID:0000000005528547

# 1.check continuity vertical synchronizing (VP) signal circuit

- Turn ignition switch OFF.
- Disconnect rear display unit connector and video distributor connector.
- Check continuity between rear display unit harness connector and video distributor harness connector.

Rear dis	splay unit	Video distributor		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
R152	17	M257	29	Existed	

Check continuity between rear display unit harness connector and ground.

Rear display unit			Continuity
Connector	Terminal	Ground	Continuity
R152	17		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2.CHECK VERTICAL SYNCHRONIZING (VP) SIGNAL

- Connect rear display unit connector and video distributor connector.
- Turn ignition switch ON.
- Check signal between rear display unit harness connector and ground using an oscilloscope.

(+)				
Rear display unit		(–)	Condition	Signal
Connector	Terminal			
R152	17	Ground	_	(V) 4 0 → 4 ms SKIB3598E

#### Is the inspection result normal?

YES >> Replace video distributor.

NO >> Replace rear display unit.

#### HP SIGNAL CIRCUIT (REAR DISPLAY UNIT TO VIDEO DISTRIBUTOR) [BOSE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

# HP SIGNAL CIRCUIT (REAR DISPLAY UNIT TO VIDEO DISTRIBUTOR)

Description INFOID:0000000005528548

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

### Diagnosis Procedure

# 1.check continuity horizontal synchronizing (hp) signal circuit

- Turn ignition switch OFF.
- 2. Disconnect rear display unit connector and video distributor connector.
- Check continuity between rear display unit harness connector and video distributor harness connector.

Rear dis	Rear display unit		istributor	Continuity	
Connector	Terminal	Connector Terminal		Continuity	
R152	18	M257	30	Existed	

Check continuity between rear display unit harness connector and ground.

Rear display unit			Continuity
Connector	Terminal	Ground	Continuity
R152	18		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

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

- Connect rear display unit connector and video distributor connector.
- Turn ignition switch ON.
- Check signal between rear display unit harness connector and ground using an oscilloscope.

(+)				
Rear dis	splay unit	(–)	Condition	Signal
Connector	Terminal			
R152	18	Ground		(V) 4 0 → 20μs SKIB3601E

#### Is the inspection result normal?

>> Replace video distributor. YES

NO >> Replace rear display unit.

**AV-131** Revision: 2009 September 2010 Murano

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#### **AUX IMAGE SIGNAL CIRCUIT**

[BOSE AUDIO WITHOUT NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

# AUX IMAGE SIGNAL CIRCUIT WITHOUT DVD ENTERTAINMENT SYSTEM

#### WITHOUT DVD ENTERTAINMENT SYSTEM: Description

INFOID:0000000005528550

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

## WITHOUT DVD ENTERTAINMENT SYSTEM : Diagnosis Procedure

INFOID:0000000005528551

# 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	Terminals	Connector	Terminals	Continuity
Masa	7	M130	66	Existed
M253	8	IVITOU	74	Existed

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

AV cor	ntrol unit		Continuity
Connector	Terminal	Ground	Continuity
M130	66		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 auxiliary connector and AV control unit connector.
- Turn ignition switch ON.
- 3. Check signal between AV control unit harness connector using an oscilloscope.

(-	+)	(-)			
AV con	trol unit	AV control unit		Condition	Signal
Connector	Terminal	Connector	Terminal		
M130	66	M130	74	When AUX image is displayed on front display.	(V) 0. 4 0 -0. 4 → 40µs SKIB2251J

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Check that there is no malfunction in the external device.

# ${f 3.}$ CHECK CONTINUITY AUX IMAGE SIGNAL CIRCUIT (AV CONTROL UNIT AND FRONT DISPLAY UNIT)

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

#### **AUX IMAGE SIGNAL CIRCUIT**

#### [BOSE AUDIO WITHOUT NAVIGATION]

#### < DTC/CIRCUIT DIAGNOSIS >

AV control unit		Front display unit		Continuity
Connector	Terminals	Connector	Terminals	Continuity
M129	36	M49	15	Existed
M129	37	10149	4	LAISIEU

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

Front display unit			Continuity
Connector	Terminal	Ground	Continuity
M49	15		Not existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

#### 4. CHECK AUX IMAGE SIGNAL

- 1. Connect AV control unit connector and front display unit connector.
- 2. Turn ignition switch ON.
- 3. Check signal between front display unit harness connector using an oscilloscope.

	+) splay unit	(–) Front display unit		Condition	Signal
Connector	Terminal	Connector	Terminal		
M49	15	M49	4	When AUX image is displayed on front display.	(V) 0. 4 0 -0. 4 → 40μs SKIB2251J

#### Is the inspection result normal?

YES >> Replace front display unit.

NO >> Replace AV control unit.

#### WITH DVD ENTERTAINMENT SYSTEM

#### WITH DVD ENTERTAINMENT SYSTEM: Description

Transmits the image signal of external device from auxiliary input jacks to video distributor.

#### WITH DVD ENTERTAINMENT SYSTEM : Diagnosis Procedure

1. CHECK CONTINUITY AUX IMAGE SIGNAL CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect auxiliary input jacks connector and video distributor connector.
- Check continuity between auxiliary input jacks harness connector and video distributor harness connector.

Auxiliary input jacks		Video d	istributor	Continuity
Connector	Terminals	Connector	Terminals	Continuity
MOSO	7	M258	19	Existed
M253	8	IVIZO	21	Existed

4. Check continuity between video distributor harness connector and ground.

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### **AUX IMAGE SIGNAL CIRCUIT**

#### [BOSE AUDIO WITHOUT NAVIGATION]

#### < DTC/CIRCUIT DIAGNOSIS >

Video d	istributor		Continuity
Connector	Terminal	Ground	Continuity
M258	19		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2. CHECK AUX IMAGE SIGNAL

- 1. Connect auxiliary input jacks connector and video distributor connector.
- 2. Turn ignition switch ON.
- 3. Check signal between video distributor harness connector using an oscilloscope.

-	+) istributor	(–) Video distributor		Condition	Signal
Connector	Terminal	Connector	Terminal		
M258	19	M258	21	When AUX image is displayed.	(V) 0. 4 0 -0. 4 → 40µs SKIB2251J

#### Is the inspection result normal?

YES >> Replace video distributor.

NO >> Check that there is no malfunction in the external device.

#### **DVD IMAGE SIGNAL CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

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INFOID:0000000005528555

#### DVD IMAGE SIGNAL CIRCUIT

Description

The DVD player transmits the playback DVD image signal to the video distributor. The video distributor receives the image signal from the DVD player, and auxiliary input jack, and then transmits it to the AV control unit and rear display.

### Diagnosis Procedure

# 1. CHECK CONTINUITY DVD IMAGE SIGNAL CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect DVD player connector and video distributor connector.
- 3. Check continuity between DVD player harness connector and video distributor harness connector.

DVD player		Video d	istributor	Continuity
Connector	Terminals	Connector	Terminals	Continuity
M254	7	M258	23	Existed
IVIZ54	5	IVIZO	22	Existed

4. Check continuity between video distributor harness connector and ground.

Video distributor			Continuity
Connector Terminal		Ground	Continuity
M258	23		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2.CHECK DVD IMAGE SIGNAL

- 1. Connect DVD player connector and video distributor connector.
- 2. Turn ignition switch ON.
- 3. Check signal between video distributor harness connector and ground using an oscilloscope.

(+) Video distributor		(-)	Condition	Signal
Connector	Terminal			
M258	23	Ground	When DVD image is displayed.	(V) 0. 4 0 -0. 4 → 40μs SKIB2251J

#### Is the inspection result normal?

YES >> Replace video distributor.

NO >> Replace DVD player.

#### **DISK EJECT SIGNAL CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

#### DISK EJECT SIGNAL CIRCUIT

**Description** 

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

#### Diagnosis Procedure

INFOID:0000000005528557

# 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.

Multifunc	tion switch	AV control unit		Continuity
Connector	Terminal	Connector Terminal		Continuity
M125	14	M131	103	Existed

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

Multifunction switch			Continuity
Connector	Terminal	Ground	Continuity
M125	14		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# $2.\mathsf{CHECK}$ 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		(11 - 7
M131	103	Ground	3.3 V

#### Is the inspection result normal?

YES >> Replace preset switch.

NO >> Replace AV control unit.

#### MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

#### MICROPHONE SIGNAL CIRCUIT

Description

Supply power from TEL adapter unit to microphone. The microphone transmits the sound/voice to the microphone.

#### Diagnosis Procedure

# 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	Continuity
	7		1	
B39	8	R20	2	Existed
	29		4	

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

TEL adapter unit			Continuity
Connector	Terminals	Ground	Continuity
B39	P20 7	Clound	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.
- Check voltage between TEL adapter unit harness connector.

(+)		(–)		
TEL ada	apter unit	TEL adapter unit		Voltage (Approx.)
Connector	Terminal	Connector Terminal		(11 - )
B39	29	B39	8	5.0 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace TEL adapter unit.

# 3. CHECK MICROPHONE SIGNAL

- 1. Connect microphone connector.
- Check signal between TEL adapter unit harness connector using an oscilloscope.

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## **MICROPHONE SIGNAL CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

#### [BOSE AUDIO WITHOUT NAVIGATION]

	+) apter unit	,	-) ipter unit	Condition	Signal
Connector	Terminal	Connector	Terminal		, and the second
B39	7	B39	8	Give a voice	(V) 2.5 2.0 1.5 1.0 0.5 0 0 + 2ms

#### Is the inspection result normal?

>> Replace TEL adapter unit. >> Replace microphone. YES

NO

#### **CONTROL SIGNAL CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

#### **CONTROL SIGNAL CIRCUIT**

**Description** 

TEL adapter unit identifies the vehicle model according to the control signal and performs the control.

#### Diagnosis Procedure

# 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			Continuity
Connector	Terminals	Ground	Continuity
B39	20	Giodila	Existed
DOA	24		Existed

#### Is the inspection result normal?

YES >> Replace TEL adapter unit.

NO >> Repair harness or connector.

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# CAMERA IMAGE SIGNAL CIRCUIT (REAR VIEW CAMERA TO CAMERA CONTROL UNIT)

#### < DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# CAMERA IMAGE SIGNAL CIRCUIT (REAR VIEW CAMERA TO CAMERA CONTROL UNIT)

Description INFOID:000000000552856

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:0000000005528563

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

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

Camera control unit		Rear vie	w camera	Continuity
Connector	Terminal	Connector Terminal		Continuity
B60	6	D192	3	Existed

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

Camera o	control unit		Continuity
Connector	Terminal	Ground	Continuity
B60	6		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2.CHECK CAMERA IMAGE SIGNAL

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

(+) Camera control unit		(-)	Condition	Signal	
Connector	Terminal				
B60	6	Ground	Shift the selector lever to "R" position.	(V) 0. 4 0 -0. 4 → 40μs SKIB2251J	

#### Is the inspection result normal?

YES >> Replace camera control unit.

NO >> Replace rear view camera.

#### **CAMERA ON SIGNAL CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

#### CAMERA ON SIGNAL CIRCUIT

Description INFOID:0000000005528564

- 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**

# 1. CHECK CONTINUITY CAMERA ON SIGNAL CIRCUIT

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

Camera o	Camera control unit		w camera	Continuity
Connector	Terminal	Connector Terminal		Continuity
B60	8	D192	1	Existed

Check continuity between camera control unit harness connector and ground.

Camera control unit			Continuity
Connector	Terminal	Ground	Continuity
B60	8		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2.CHECK VOLTAGE CAMERA ON SIGNAL

- 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	Voltage
Connector	Terminal			(Approx.)
B60	8	Ground	Shift the selector lever to "R" position.	6.0 V

#### Is the 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)

#### < DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

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

**Description** 

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:0000000005528567

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

- 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		Continuity
B60	12	M130	65	Existed
	11	IVITOU	64	Existed

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

Camera control unit			Continuity
Connector	Terminal	Ground	Continuity
B60	12		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2.CHECK CAMERA IMAGE SIGNAL

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

(+)  Camera control unit  Connector Terminal		(-)	Condition	Signal
B60	12	Ground	Shift the selector lever to "R" position.	(V) 0. 4 0 −0. 4 → 40μs SKIB2251J

#### Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace camera control unit.

#### STEERING ANGLE SENSOR SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

#### STEERING ANGLE SENSOR SIGNAL CIRCUIT

Description INFOID:0000000005528568

- 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

# 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	Continuity
	23		3	
B60	24	M30	6	Existed
	25		8	

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

Camera d	control unit		Continuity
Connector	Terminals		Continuity
	23	Ground	
B60	24		Not existed
	25		

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2.CHECK VOLTAGE CAMERA CONTROL UNIT

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

(	+)		5 (
Camera d	control unit	(–)	Reference value (Approx.)
Connector	Terminals		(     - /
	23		
B60	24	Ground	5.0 V
	25		

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace camera control unit.

# 3. CHECK STEERING ANGLE SENSOR SIGNAL

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

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

(+)				Reference value
Camera o	Camera control unit		Condition	
Connector	Terminals			
B60		Ground	Turn the steering to the right	A: Sensor signal 1 B: Sensor signal 2
	23, 24		Turn the steering to the left	A: Sensor signal 1 B: Sensor signal 2
	25	Ground	Turn the steering around the neutral position	A: Sensor signal 3 B: Sensor signal 1

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering angle sensor.

### STEERING SWITCH SIGNAL A CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

### STEERING SWITCH SIGNAL A CIRCUIT

Description INFOID:0000000005528570

Transmits the steering switch signal to AV control unit.

## Diagnosis Procedure

# 1. CHECK STEERING SWITCH SIGNAL A CIRCUIT

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

AV control unit		Spiral cable		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M127	6	M33	24	Existed	

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

AV cor	trol unit		Continuity
Connector	Terminal	Ground	Continuity
M127	6		Not existed

#### Is the inspection result normal?

>> GO TO 2. YES

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

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

(	+)	(	<b>–</b> )	
AV cor	AV control unit		ntrol unit	Voltage (Approx.)
Connector	Terminal	Connector Terminal		(11 - 7
M127	6	M127 15		3.3 V

#### Is the inspection result normal?

>> GO TO 4. YES

NO >> Replace AV control unit.

# 4. CHECK STEERING SWITCH

- Turn ignition switch OFF.
- Check steering switch. Refer to AV-146, "Component Inspection".

**AV-145** 

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

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INFOID:0000000005528571

## STEERING SWITCH SIGNAL A CIRCUIT

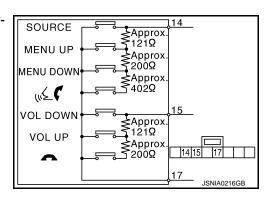
< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# Component Inspection

INFOID:0000000005528572

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



#### Standard

	Steering switch			Resistance	
Con- nector	Termi- nal	Con- nector	Termi- nal	Condition	Ω
					709 – 737
	14	M303	17	MENU DOWN switch ON	315 – 327
				MENU UP switch ON	119 – 123
M303				SOURCE switch ON	0
		15		switch ON	315 – 327
	15			VOL UP switch ON	119 – 123
				VOL DOWN switch ON	0

### STEERING SWITCH SIGNAL B CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

### STEERING SWITCH SIGNAL B CIRCUIT

Description INFOID:0000000005528573

Transmits the steering switch signal to AV control unit.

## Diagnosis Procedure

# 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		Spira	l cable	Continuity
Connector	Terminal	Connector Terminal		Continuity
M127	16	M33	31	Existed

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

AV cor	trol unit		Continuity
Connector	Terminal Ground		Continuity
M127	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.

(+)		(–)		
AV cor	ntrol unit	AV control unit		Voltage (Approx.)
Connector	Terminal	Connector Terminal		(11 - )
M127	16	M127	15	3.3 V

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

### 4. CHECK STEERING SWITCH

- Turn ignition switch OFF.
- Check steering switch. Refer to <u>AV-148</u>, "Component Inspection".

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

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INFOID:0000000005528574

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Revision: 2009 September

## STEERING SWITCH SIGNAL B CIRCUIT

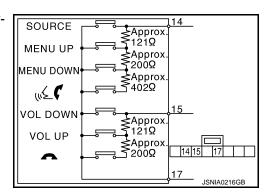
< DTC/CIRCUIT DIAGNOSIS >

## [BOSE AUDIO WITHOUT NAVIGATION]

# Component Inspection

INFOID:0000000005528575

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



#### Standard

	Steering switch			Resistance	
Con- nector	Termi- nal	Con- nector	Termi- nal	Condition	Ω
					709 – 737
	14	M303	17	MENU DOWN switch ON	315 – 327
				MENU UP switch ON	119 – 123
M303				SOURCE switch ON	0
		15		switch ON	315 – 327
	15			VOL UP switch ON	119 – 123
				VOL DOWN switch ON	0

### STEERING SWITCH SIGNAL GND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

### STEERING SWITCH SIGNAL GND CIRCUIT

Description INFOID:000000005528576

Transmits the steering switch signal to AV control unit.

# Diagnosis Procedure

# 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		Continuity	
M127	15	M33	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			Continuity	
Connector Terminal		Ground	Continuity	
M127	15		Existed	

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

#### 4. CHECK STEERING SWITCH

- Turn ignition switch OFF.
- 2. Check steering switch. Refer to AV-150, "Component Inspection".

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

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INFOID:0000000005528577

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## STEERING SWITCH SIGNAL GND CIRCUIT

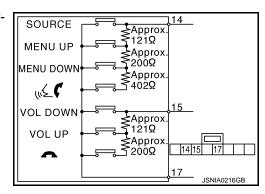
< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

# **Component Inspection**

INFOID:0000000005528578

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



#### Standard

	Steering switch			Resistance	
Con- nector	Termi- nal	Con- nector	Termi- nal	Condition	Ω
					709 – 737
	14	M303	17	MENU DOWN switch ON	315 – 327
				MENU UP switch ON	119 – 123
M303				SOURCE switch ON	0
		15		switch ON	315 – 327
	15			VOL UP switch ON	119 – 123
				VOL DOWN switch ON	0

# **ECU DIAGNOSIS INFORMATION**

# AV CONTROL UNIT

Reference Values

## INFOID:0000000005528579

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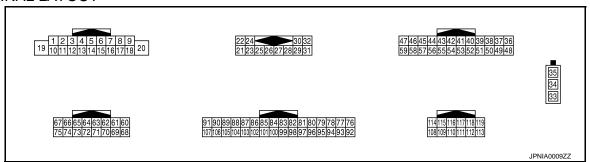
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#### VALUES ON THE DIAGNOSIS TOOL

Monitor Item		Condition	Value/Status
VIICL CDD CIC	CL SPD SIG    Ignition switch ON	Vehicle speed > 0 km/h (0 MPH)	On
VHCL SPD SIG	ON	Vehicle speed = 0 km/h (0 MPH)	Off
DIAD CIO	Ignition switch	Parking brake is applied.	On
PKB SIG	Parking brake is released.	Off	
ILLUM SIG	Light switch ON	On	
	ON	Light switch OFF	Off
IGN SIG  ON  Ignition switch ACC	_	On	
	•	_	Off
	Ignition switch	Selector lever in R position	On
KEV SIG	ON	Selector lever in any position other than R	Off

#### **TERMINAL LAYOUT**



#### PHYSICAL VALUES

	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
					Keep pressing SOURCE switch.	0 V
				Ignition	Keep pressing $\Delta$ switch.	0.7 V
6 (BR)	15 (L)	Steering switch signal A	Input	switch	Keep pressing ∇ switch.	1.3 V
				ON	Keep pressing √∠ C switch.	2.0 V
					Except for above.	3.3 V
7 (R)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage
9	Ground Illumination signal Inpu		Input	OFF	Lighting switch is OFF.	0 V
(R)	Giodila	mummation signal	input		Lighting switch is ON.	12.0 V

	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
15 (L)	Ground	Steering switch signal GND	_	Ignition switch ON	_	0 V
					Keep pressing VOL DOWN switch.	0 V
16 (G)	15 (L)	Steering switch signal B	Input	Ignition switch ON	Keep pressing VOL UP switch.	0.7 V
					Keep pressing A 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 (G)	21 (B)	Satellite radio sound signal LH	Input	Ignition switch ON	When satellite radio mode is selected.	(V) 1 0 -1 + 2ms SKIB3609E
24 (W)	23 (R)	Satellite radio sound signal RH	Input	Ignition switch ON	When satellite radio mode is selected.	(V) 1 0 -1 + 2ms SKIB3609E
25		Shield	_	_	_	_
26		Shield	_	_	_	_
28 (R)	Ground	Request signal (SAT→CONT)	Input	Ignition switch ON	When satellite radio mode is selected.	(V) 10 0 -10 +10ms SKIA9299J
29 (W)	Ground	Communication signal (SAT→CONT)	Input	Ignition switch ON	When satellite radio mode is selected.	10 0 -10 *** 1ms SKIA9300J

	rminal e color)	Description			Condition	Reference value		
+	_	Signal name	Input/ Output		Condition	(Approx.)		
30 (B)	Ground	Communication signal (CONT→SAT)	Output	Ignition switch ON	When satellite radio mode is selected.	(V) 10 0 -10 → 1ms SKIA9301J		
33	_	FM sub	Input	_	_	_		
34	<u> </u>	AM-FM main	Input	_	_	_		
35	Ground	Antenna amp. ON signal	Output	Ignition switch ACC	_	12.0 V		
36 (L)	37 (P)	Without DVD player models  Composite image signal (AUX/Camera image)  With DVD player models	Output	Ignition switch ON	When composite image is displayed.	0. 4 0		
		Composite image signal (DVD/AUX/Camera image)						-0. 4 + 40µs   SKIB2251J
37 (P)	Ground	Composite image ground	_	Ignition switch ON	_	0 V		
38 (Y)	Ground	RGB image 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.	(V) 0. 4 0 -0. 4		
39 (L)	Ground	RGB image 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.	(V) 0. 4 0 -0. 4 -40μs SKIB2236J		
40 (G)	Ground	RGB image 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.	(V) 0. 4 0 -0. 4 -40μs SKIB2238J		

	minal color)	Description			Condition	Reference value	
+	_	Signal name	Input/ Output		Condition	(Approx.)	
41 (B)	Ground	RGB synchronizing signal	Output	Ignition switch ON	_	(V) 4 0 → 20 µs SKIB3603E	
42	_	Shield	_	_	_	_	
					When RGB image is displayed.	5.0 V	
43 (W)	Ground	RGB area (YS) signal	Output	Ignition switch ON	When AUX or camera image is displayed.	(V) 6 4 2 0 +	
44 (G)	Ground	Communication signal (DISP→CONT)	Input	Ignition switch ON	When adjusting display brightness.	(V) 6 4 2 0 ••••1ms	
45 (G)	Ground	Horizontal synchronizing (HP) signal	Input	Ignition switch ON	_	(V) 4 0 → 20µs SKIB3601E	
46 (LG)	Ground	Signal GND	_	Ignition switch ON	_	0 V	
47 (O)	Ground	Signal VCC (front display unit power supply)	Output	Ignition switch ACC	_	9.0 V	
49	_	Shield	_	_	_	_	
50	_	Shield	_	_	_	_	
55	_	Shield			_	_	
56 (R)	Ground	Communication signal (CONT→DISP)	Output	Ignition switch ON	When adjusting display brightness.	(V) 6 4 2 0 +-1ms	

### < ECU DIAGNOSIS INFORMATION >

	minal color)	Description			Condition	Reference value										
+	_	Signal name	Input/ Output		Condition	(Approx.)										
57 (R)	Ground	Vertical synchronizing (VP) signal	Input	Ignition switch ON	_	(V) 4 0 ++4ms SKIB3598E										
58 (BR)	Ground	Inverter GND	_	Ignition switch ON	_	0 V										
59 (Y)	Ground	Inverter VCC (front display unit power supply)	Output	Ignition switch ACC	_	9.0 V										
64	Ground	Shield (camera image ground)	_	Ignition switch ON	_	0 V										
65 (W)	64	Camera image signal	Input	Ignition switch ON	when rear view camera image is displayed.	(V) 0. 4 0 -0. 4 + 40μs SKIB2251J										
66	74	Without DVD player models  • AUX image signal		Ignition	When AUX image is displayed.	(V) 0. 4										
(Y)*1 (L)*3	(B)*1 (R)*3	With DVD player models • Composite image signal (DVD/AUX image)	Input	Input	Input	Input	Input	Input	Input	Input	Input	Input	Input	ON When I	When DVD or AUX image is displayed.	0 -0. 4 -40μs SKIB2251J
68	Ground	Camera-connection recog-	Input	Ignition switch	Connected to camera control unit connector.	0 V										
(P)	Ground	nition signal	прас	ON	Not connected to camera control unit connector.	5.0 V										
73	_	Shield		_	_											
74 (B)*1 (BR)*2 (R)*3	Ground	Without DVD player models  AUX image signal ground  With DVD player models  Composite image signal ground (DVD/AUX image)	_	Ignition switch ON	_	0 V										
80 (R)	79 (L)	TEL voice signal	Input	Ignition switch ON	During voice guide output with the  with the	(V) 1 0 -1 ++2ms SKIB3609E										

	minal color)	Description			Condition	Reference value	
+	_	Signal name	Input/ Output		Condition	(Approx.)	
81	_	Shield	_	_	_	_	
83	82	Without DVD player models • Sound signal RH (iPod sound)	Input	Ignition switch	When iPod mode is selected		
(R)	(W)	With DVD player models • Sound signal RH (iPod, DVD and AUX sound)	inpat	ON	When iPod, DVD or AUX mode is selected	0 -1 -2ms SKIB3609E	
85 (B)	Ground	Ground	1	Ignition switch ON	_	0 V	
86 (L)	_	CAN-H	Input/ Output	_	_	_	
87 (P)		CAN-L	Input/ Output	_	_	_	
88 (R)	_	AV communication signal (H)	Input/ Output	_	_	_	
89 (L)	_	AV communication signal (L)	Input/ Output	_	_	_	
90 (G)	_	AV communication signal (H)	Input/ Output	_	_	_	
91 (L)	_	AV communication signal (L)	Input/ Output	_	_	_	
95 ^{*4} (R)	97 ^{*4} (W)	AUX sound signal RH	Input	Ignition switch ON	When AUX mode is selected	(V) 1 0 -1 + 2ms SKIB3609E	
96 ^{*4} (B)	97 ^{*4} (W)	AUX sound signal LH	Input	Ignition switch ON	When AUX mode is selected	(V) 1 0 -1 + 2ms SKIB3609E	
97 ^{*4} (W)	Ground	AUX sound signal ground		Ignition switch ON	_	0 V	
99 (BR) ^{*4}	98 (L) ^{*4}	Without DVD player models  Sound signal RH (iPod sound)	Input	Ignition switch	When iPod mode is selected		
(BR) ⁴ (B) ^{*3}	(G)*3	With DVD player models • Sound signal RH (iPod, DVD and AUX sound)	•	ON Switch	When iPod, DVD or AUX mode is selected	-1 + 2ms   SKIB3609E	
100	_	Shield	_	_	_	_	

### < ECU DIAGNOSIS INFORMATION >

# [BOSE AUDIO WITHOUT NAVIGATION]

	minal e color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
101 (V)	Ground	SW ground	_	Ignition switch ON	_	0 V
103	Ground	Eject signal	Input		Pressing the eject switch	0 V
(W)			,		Except for above	3.3 V
104 (G)	Ground	Ignition signal	Input	Ignition switch ON	_	Battery voltage
105	0	Devene simul	1	Ignition	The "R" position	12.0 V
(SB)	Ground	Reverse signal	Input	switch ON	Other than the "R" position	0 V
106	0	De literal colonia di		Ignition	Parking brake ON	0 V
(G)	Ground	Parking brake signal	Input	switch ON	Parking brake OFF	5.0 V
107 (V)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is approx. 40 km/h (25 MPH)	NOTE:  Maximum voltage may be 12 V due to specifications (connected units).  (V)  4 2 0  ***20ms  SKIA6649J
108 (V)	114 (LG)	Sound signal rear RH	Output	Ignition switch ON	Voice output	(V) 1 0 -1 + 2ms SKIB3609E
109 (B)	115 (W)	Sound signal front RH	Output	Ignition switch ON	Voice output	(V) 1 0 -1 + 2ms SKIB3609E
110 (P)	Ground	Amp. ON signal	Output	Ignition switch ON	_	10.0 V
111	_	Shield	_	_	_	_
	1				L	<u> </u>

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#### < ECU DIAGNOSIS INFORMATION >

#### [BOSE AUDIO WITHOUT NAVIGATION]

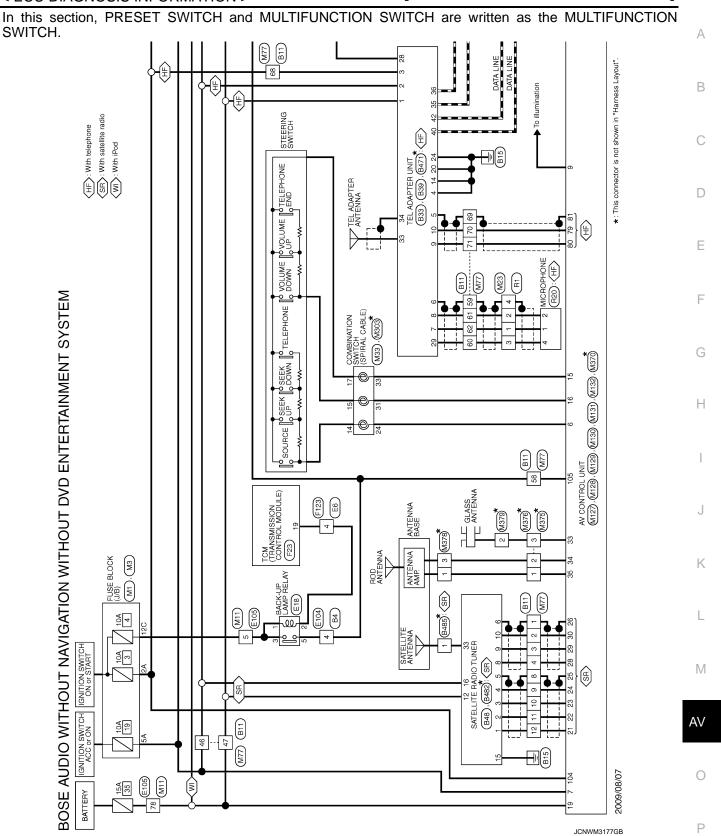
	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
112 (O)*1 (L)*2	118 (SB)*1 (R)*2	Sound signal rear LH	Output	Ignition switch ON	Voice output	(V) 1 0 -1 +2ms SKIB3609E
113 (G)	119 (R)	Sound signal front LH	Output	Ignition switch ON	Voice output	(V) 1 0 -1 + 2ms SKIB3609E

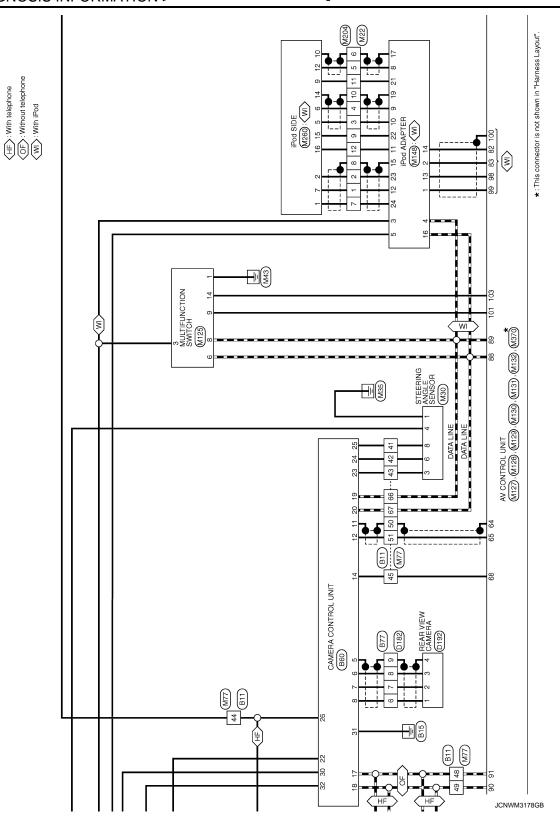
#### NOTE:

- *1: Without DVD player models (Type A).
- *2: Without DVD player models (Type B).
- *3: With DVD player models.
- *4: Only for models without DVD player.

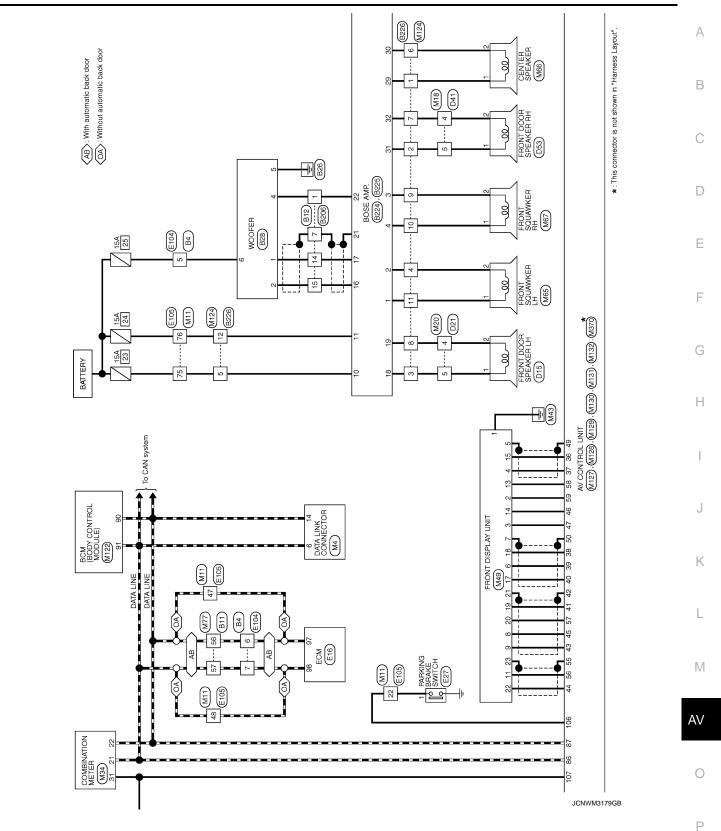
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION WITHOUT DVD ENTER-TAINMENT SYSTEM -

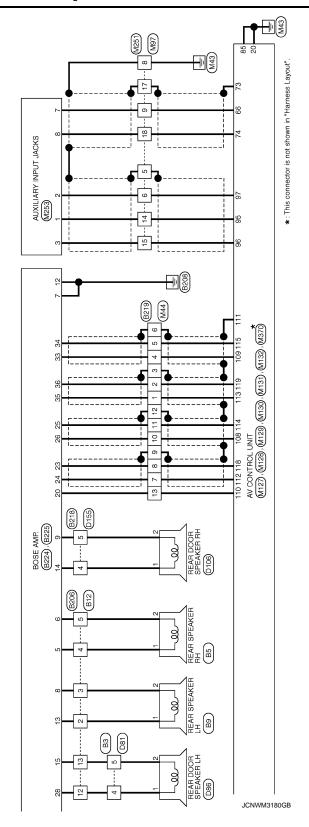
NOTE:





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No. of Wire   Signal Name [Specification]   1   SB         SB	No. of Wire   Signal Name [Specification]   1   SB         SB
No. of Wire   Signal Name [Specification]   1   SB	No. of Wire   Signal Name [Specification]   1   SB
No. of Wire   Oolor   Signal Name (Specification)   2 GR     1 SB       1 SB	No. of Wire   Oolor   Signal Name (Specification)   2 GR     1 SB       1 SB
New	Color   Colo
Color   Colo	Color   Colo
Terminal   Color   No.   Off Wire   Signal Name [Specification]   1   SB   Color   Color   No.   Off Wire   SB   Color   No.   O   Color   Color   No.   O   Color	Terminal   Color   No.   Off Wire   Signal Name [Specification]   1   SB   Color   Color   No.   Off Wire   SB   Color   No.   O   Color   Color   No.   O   Color
Terminal   Color   No.   Of Wire   Of Wire   Signal Name (Specification)   2   OR   OR   OR   OR   OR   OR   OR	Terminal   Color   No.   Of Wire   Of Wire   Signal Name (Specification)   2   OR   OR   OR   OR   OR   OR   OR
Color   Signal Name (Specification)   Terminal   Color   No. of Wise	Color   Signal Name (Specification)   Terminal   Color   No. of Wise
1   2   3   4   5   6	1   2   3   4   5   6
1   2   3   1   2   5   7	1   2   3   1   2   5   7
2 3       4 5 6 7	2 3       4 5 6 7
2 3	2 3
1   2   3	1   2   3
2 3	2 3
2   3       4   5   6   7	2   3       4   5   6   7
1 2 3       4 5 6 7	1 2 3       4 5 6 7
1   2   3       4   5   6   7	1   2   3       4   5   6   7
1 2 3	1 2 3
1   2   3	1   2   3
1 2 3   1 4 5 6 7     8 9 10 11 12 13 14 15 16     8 9 10 11 12 13 14 15 16     8 9 10 11 12 13 14 15 16     8 9 10 11 12 13 14 15 16     9 0	1 2 3   1 4 5 6 7     8 9 10 11 12 13 14 15 16     8 9 10 11 12 13 14 15 16     8 9 10 11 12 13 14 15 16     8 9 10 11 12 13 14 15 16     9 0
1   2   3   1   4   5   6   7     8   9   10   11   12   13   14   15   16     8   9   10   11   12   13   14   15   16     8   9   10   11   12   13   14   15   16     9   0   0   0     1   SB     1   SB	1   2   3   1   4   5   6   7     8   9   10   11   12   13   14   15   16     8   9   10   11   12   13   14   15   16     8   9   10   11   12   13   14   15   16     9   0   0   0     1   SB     1   SB
1 2 3	1 2 3
1 2 3	1 2 3
1 2 3	1 2 3
1   2   3   1   4   5   6   7	1   2   3   1   4   5   6   7
NSI 6MW-CS   USAN   U	NSI 6MW-CS   USAN   U
NST IBMW-CS	NST IBMW-CS
NS   6MW-CS	NS   6MW-CS
1   2   3   1   4   5   6   7   8   9   10   11   12   13   14   15   16   7   16   16   16   16   16   16	1   2   3   1   4   5   6   7   8   9   10   11   12   13   14   15   16   7   16   16   16   16   16   16
NST6MW-CS	NST6MW-CS
NST BMW-CS   NRTE   N	NST BMW-CS   NRTE   N
NS   GMW-CS	NS   GMW-CS
WINE TO WINE    NS 16MW-CS	WINE TO WINE    NS 16MW-CS
WIRE TO WIRE    NS 16MW-CS   TK02PBR     1   2   3     4   5   6   7     1   2   3	WIRE TO WIRE    NS 16MW-CS   TK02PBR     1   2   3     4   5   6   7     1   2   3
NST IGANW-CS	NST IGANW-CS
NST GAMW-CS	NST GAMW-CS
Na   Edward	Na   Edward
WIRE TO WIRE   Connector Type   Trace   Trac	WIRE TO WIRE   Connector Type   Trace   Trac
B4   Connector Type   TXO2FBR   NS 16MW-CS   TXO2FBR	B4   Connector Type   TXO2FBR   NS 16MW-CS   TXO2FBR
NS 16MW - CS	NS 16MW - CS
NST IGNAW-CS	NST IGNAW-CS
B4   Connector Name   REAR SP   Connector Name   REAR SP   Connector Type   TK02FBR   Connector Type   TK02FBR   T	B4   Connector Name   REAR SP   Connector Name   REAR SP   Connector Type   TK02FBR   Connector Type   TK02FBR   T
B4	B4
B4   Connector Name   REAR SP     WRE TO WIRE     Signal Name   Specification     Color	B4   Connector Name   REAR SP     WRE TO WIRE     Signal Name   Specification     Color
NS   Idea   Connector Name   REAR SP	NS   Idea   Connector Name   REAR SP
Signal Name   Specification   Specification	Signal Name   Specification   Specification
Defended to No.   Defended t	Defended to No.   Defended t
B4   Connector No.   B9   Connector No.   B9   Connector Name   REAR SP   Connector Type   TKQZFBR   Connector Type   TKQZFBR   TKQZFBR   Connector Type	B4   Connector No.   B9   Connector No.   B9   Connector Name   REAR SP   Connector Type   TKQZFBR   Connector Type   TKQZFBR   TKQZFBR   Connector Type
B4   Connector No.   B9   Connector No.   B9   Connector Name   REAR SP   Connector Type   TK02FBR   Connector Type   TK02FBR   TK02FB	B4   Connector No.   B9   Connector No.   B9   Connector Name   REAR SP   Connector Type   TK02FBR   Connector Type   TK02FBR   TK02FB
B4	B4
Signal Name [Specification]   Specification]   Specification   Specification	Signal Name [Specification]   Specification]   Specification   Specification
B4   Connector No.   B9   Connector No.   B9   WIRE TO WIRE   TKOZFBR SP   Connector Type   TKOZFBR SP   TKOZFBR SP	B4   Connector No.   B9   Connector No.   B9   WIRE TO WIRE   TKOZFBR SP   Connector Type   TKOZFBR SP   TKOZFBR SP
Signal Name   Specification   Specification	Signal Name   Specification   Specification
Signal Name   Specification   Specification	Signal Name   Specification   Specification
Connector No.   B9	Connector No.   B9
B4   Connector No.   B9   Connector No.   B9   Connector No.   B9   Connector Name   REAR SP   Connector Type   TK02FBR   Connector Type   TK02FBR   TK02FBR   Connector Type   TK02FBR   TK02FBR	B4   Connector No.   B9   Connector No.   B9   Connector No.   B9   Connector Name   REAR SP   Connector Type   TK02FBR   Connector Type   TK02FBR   TK02FBR   Connector Type   TK02FBR   TK02FBR
B4   Connector No.   B9   Connector No.   B9   Connector Name   REAR SP   Connector Name   REAR SP   Connector Name   REAR SP   Connector Name   REAR SP   Connector Name   Co	B4   Connector No.   B9   Connector No.   B9   Connector Name   REAR SP   Connector Name   REAR SP   Connector Name   REAR SP   Connector Name   REAR SP   Connector Name   Co
Signal Name   Specification    Specifi	Signal Name   Specification    Specifi
Signal Name   Specification    Specifi	Connector No.   B9   Connector No.   B9   Connector No.   B9   Connector No.   B9   Connector Type   TK02FBR   TK0
B4   Connector Name   REAR SP	B4   Connector Name   REAR SP
Signal Name   Specification	Signal Name   Specification
Signal Name [Specification]   Connector Name   Specification]   Connector Name   Connecto	Signal Name [Specification]   Connector Name   Specification]   Connector Name   Connecto
Connector No.   B9   Connector Type   TKOZFBR SP   Connector Type   TK	Connector No.   B9   Connector Type   TKOZFBR SP   Connector Type   TK
Connector No.   B9	Connector No.   B9
Connector No   B9   Connector No   B9   Connector No   B9   Connector Name   REAR SP   Connector Name   REAR SP   Connector Name   REAR SP   Connector Name   REAR SP   Connector Name   TKQZFBR   NS 16MW-CS   TKQZFBR   TKQZFB	Connector No   B9   Connector No   B9   Connector No   B9   Connector Name   REAR SP   Connector Name   REAR SP   Connector Name   REAR SP   Connector Name   REAR SP   Connector Name   TKQZFBR   NS 16MW-CS   TKQZFBR   TKQZFB
1   2   3	1   2   3
Connector No.   B9	Connector No.   B9
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1	1
No.   Color   Color	1

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BOS	= AUD	BOSE AUDIO WITHOUT NAVIGATION	MIT	HOUT	WITHOUT DVD ENTERTAINMENT SYSTEM	TEM				
Connector No		B11	4 4	- B	1 1	96	R G	1 1	4 W WOOFER AMP. ON SIGNAL	
Connector Name		WIRE TO WIRE	46	GR	1	86	ΓG	-	H	
Connector	Type	TH80MW-CS19	47	+	+	66	0	1		
<b>€</b>			84 04	5 0	-[With rear view camera and telephone]				Connector No 1823	Г
· 美			49	╁	+	Connector No.		B12		_
ė			20	SHIELD		Connect	9	WIRE TO WIRE		
		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	51	+		c	Т		Connector Type TH08FW-NH	_
			25	2 ×	1	Connector Type	7	NST6FW-CS	€	
			54	- 9		Œ				
Terminal		2	22	H	1		L			
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-	SHIELD	1	57	$\dashv$	1		] ~	14 13 19 11 10	36 38 40 42	
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2	1/A		â G	NHELD P					Torminal	Г
- 10	g,	1	3 3	╀	1	Terminal	_		_	
9	<u>a</u>		62	╁	1	Š	of Wire	Signal Name [Specification]	35 Y AV COMM (H)	_
7	>	1	9	┝	1	-	×	1	BR	
89	SHIELD	1	64	┝	1	2	SB	1	Ͱ	
6	BR/L	1	99	GR	1	က	GR	1	GR	Г
10	5/X	-	67	9	-	4	^	-		ı
11	J/Y	-	68	<b>a</b>	-	2	ΓG	-		
12	M/L	-	69	SHIELD	TD	7	SHIELD	_		
13	٦	-	70	Н		8	0	1		
14	BR	_	71	B/R		6	g	-		
15	SB	1	72	$\dashv$	1	10	BR	1		
16	BR	1	73	$\dashv$	1	Ξ	۵	1		
17	>	1	74	SB	1	12	ΓC	1		
18	SB	1	75	+		5	0	î		
19	œ	1	76	+		4	W/R	1		
20	a. !	1	77	7	-	15	B/R	1		
21	<u>5</u>	1	78	S						
22	Α :	1	6/	+						
23	- 5	1	80	× c	ı	Confidence No.		879		
t 7	<u></u>		5 8	+		Connect	Connector Name	WOOFER		
23	- >		83 68	- 8	1	Connector Type	Т	BS06EGY-PB		
28	. I/M	1	8	╀			1			
30	۵	1	82	╀	1	1				
31	0	-	98	H	1	1		[		
32	BR	1	87	┝	1	Ź				
34	SB	1	88	H	1			((2 4 0))		
35	SHIELD	-	88	Ă	-			3 5		
36	0/1	1	96	$\dashv$	1			)		
37	LG	1	91	$\dashv$	1					
40	>-	1	95	7	1	Terminal	Color	Signal Name [Specification]		
14	0	1	93	+		Š	of Wire			
45	gg	1	94	>	1		W/R	SOUND SIGNAL WOOFER (-)		
43	ŋ		ăí	4		2	B/R	SOUND SIGNAL WOOFER (+)		

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321 1211 1211 1211 1211 1321 1321 1321	А
E	В
WIRE TO TKIOFW.	С
13   R   14   W/R   15   B/R   15   B/R   16   B   B/R   16   B   B/R   17   B/R   18   B/R   18   B/R   18   B/R   19	D
5   1   1   1   1   1   1   1   1   1	Е
Name [Spec	F
Name   WIRE TO WIRE   Name   WIRE TO WIRE TO WIRE   Name   WIRE TO	G
Connector Name   Conn	Н
	ı
TERTAL  COMM (SOTA)  BATTEL  BATTEL  BATTEL  BATTEL  BATTEL  SHEL  SHEN  SHEL  SHEL	J
No.	K
NVIGATIO    NIGATION	L
TEL ADAPTER UNIT   TH32FW-NH	M
DIO W    El	AV
Connector Name   Connector Name   Connector Name   Connector Name   Connector Type   Connector Type   Connector Name   Conn	0
JCNWM3183GB	Р

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Connector No. B452 Connector Name SATELLITE RADIO TUNER Connector Type FARRA  #\$3	Terminal Color Signal Nane [Specification]  No. of Wire Signal Nane [Specification]  SATELLITE ANTENNA  Connector No. B485  Connector Nane Antenna Antenna Natura N	Terminal   Color   Signal Nane [Specification]   No.   of Wire   SATELLITE ANTENNA   SATELLITE ANTENNA   Octonector No.   D15   Octonector Name   FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)   Octonector Type   NSQ2FBR-CS
Connector No.   8226	Terminal Color No. of Wire 2 8R	Connector No.   641
VO TUOH	13 GR SOUND SIGNAL REAR DOOR SPEAKER RH (+)  Connector Name BOSE AMP.  Connector Type SCA 19FBR-SGA4    17   26   26   24   28   28   10   19   17   16   18	Terminal   Color   Signal Name [Specification]   No. of vill wile   SOUND SIGNAL, REAR DOOR SPEAKER IH (-)   17   W/R   SOUND SIGNAL PRANT DOOR SPEAKER IH (-)   18   W   SOUND SIGNAL FRONT DOOR SPEAKER IH (-)   20   SB   SOUND SIGNAL FRONT DOOR SPEAKER IH (-)   21   SHELD   SHELD
BOSE AUDIO WITHOUT NAVIGATION  Connector Na. BZ19  Connector Type IH32MM-NH  Connector Type IH32MM-NH  H.S.   1   2   3   4   5   6   7   8   9   10   11   12   13   4   15   15    TT   18   19   10   12   23   24   25   26   27   28   29   30   31   22   25   24   25   25   27   28   29   30   31   32    TT   18   19   20   21   22   23   24   25   26   27   28   29   30   31   32    TT   2   3   4   5   6   7   8   9   10   11   12   14   15   15    TT   18   19   20   21   22   23   24   25   26   27   28   29   30   31   32    TT   2   4   5   6   7   8   9   10   11   12   14   15   15    TT   18   19   20   21   22   23   24   25   26   27   28   29   30   31   32    TT   2   4   5   6   7   8   9   10   11   12   14   15   15    TT   2   4   5   6   7   8   9   10   11   12   14   15    TT   3   4   5   6   7   8   9   10   11   12   14   15   15    TT   3   4   5   6   7   8   9   10   11   12   14   15   15    TT   4   5   6   7   8   9   10   11   12   14   15   15    TT   4   5   6   7   8   9   10   11   12   14   15   15    TT   4   7   7   7   7   7   7    TT   5   7   7   7   7   7   7   7    TT   7   7   7   7   7   7   7   7    TT   7   7   7   7   7   7   7    TT   7   7   7   7   7   7   7    TT   7   7   7   7   7   7    TT   7   7   7   7   7   7    TT   7   7   7    TT	Terminal   Color   No.   Feminal   Color   No.   Feminal   Color   No.   Feminal   No.   Fem	C C C C C C C C C C C C C C C C C C C

JCNWM3184GB

Signal Name (Specification)  Signal Name (Specification)  Signal Name (Specification)  Signal Name (Specification)	АВ
Connector Na.   D86	C
Specification	Е
Signal Name [	F
Neeter No.   Nee	G H
Signature   Color	I
DVD ENTERTAINMENT	J
STATE   Color   Colo	K
	L
AUDIO WITHOUT NAVIGAT	M
AUDIO WITH   Nume   WIRE TO WIRE   Thus   WIRE TO WIRE   Thus   WIRE TO WIRE   WIRE	AV
BOSE Autoroctor Name   Connector Name	0
	Р

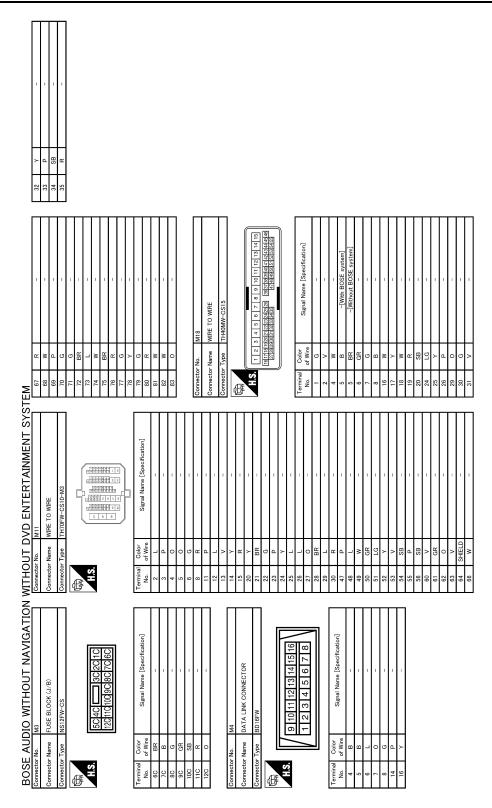
Revision: 2009 September AV-167 2010 Murano

Connector No. E18 Connector Name BACK-UP LAMP RELAY Connector Type MSGZFL-M2-LC  H.S.  12   71	Terminal Color Signal Name [Specification] No. of Wire	2 2 - 2	Н	Ownershow Me 1707	Т		Connector lype PUIFB-A	•	v		=			No. of Wire Signal Name [Specification]	- d																
Connector No.   E16	Terminal   Color   Signal Name [Specification]   No. of Wire   Marci   Apper   Apper	O BB	į ω >	· SS	50	Н	92 BR GNDA-ASCDSW	GR		GR	a	100 G GNDA-APS2	102 R NEUT-H	3 >	SB	80	+	M.	0 (	111 B GND	۵										
	1234	Terminal Color Signal Name [Specification]	Ħ	B CAMERA		Γ	┰	Connector Name WIRE TO WIRE	Connector Type TK16MGY-1V	d.	THAT .	123 4567	10 11 12 13 14			Terminal Color Signal Name [Specification]		_	> ¢	π (Q	K) >	> a	ł	: 0	╀	╁	В	15 0 -			
BOSE AUDIO WITHOUT NAVIGATION Connector No. D155 Connector Type IR(10WFE Connector Type IR(10WFE)  MA. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Terminal Color Signal Name [Specification]	- 4 K	H	H	13 < 2	H	15 SB	╀			Т		Connector Type TK12FW	4	Ľ.	5 4 3 == 2 1	12 11 10 9 8 7 6			:1-0	No of Wire Signal Name [Specification]		1	3 6	F	H	- c	1	8	10 LG	4

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WIRE  -IV    4     3   2   1	АВ
Connector No.   F123	C
0. MODULE) 0. MODULE) 0. 41 48 0. 41 44 0. 41 42 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44 0. 41 44	Е
Tow (Transmission) Control, Mobile	F
	G
NEST STORY OF THE PROPERTY OF	Н
MITHOUT DVD ENTERTAINMENT S    11	I
	J
HO T P P R R R R R P P P P R R R P P P P R R R P P P P R R R P P P R R R P P P P R R R P P P P P P P P P P P P P P P P P P P P	K
11 HOUTH	K
	L
Color   Colo	М
NS16FW-CS   Signa	AV
Connector Name   Color	0
JCNWM318	_{B7GB}

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JCNWM3188GB

and telephone]  Thout telephone]  Thout telephone]  Thout telephone]  Thout telephone]  Thout telephone]	А
-[With audio steering switch and telephone] -[With audio steering switch without telephone]	В
BR	С
24	D
Wigation system]	Е
	F
	G
Commetter Name   Colorector	Н
Signal Name   Specification	1
VD ENTERT	J
MITHOUT DW(	К
Z	L
Connector No.   M20   MITHOUT NAVIGATIO   Connector No.   M20   MITHOUT NAVIGATIO   M20   M30   M30	M
MINE TO WITH   MINE TO WITE   TH40MW-CSSIS   SIGNAL   S	AV
Commetter No.   Commetter No.   Commetter No.   Commetter No.   Commetter No.   Commetter Type   Commetter	0
	JCNWM3189GB
	Р

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Connector No. M66 Connector Name CENTER SPEAKER Connector Type TK02FBR H.S.	Connector No.   Color   Signal Name [Specification]   Connector No.   M67   Connector Name   FRONT SOUAWKER RH   Connector Type   TR02FBR     TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR02FBR   TR	
2 Y INVERT 3 S R SHIELD SIGNA 4 SHIELD SIGNA 4 B AUXINS 5 SHIELD SHIELD SHIELD 5 SHIELD SHIEL	B	
WITHOUT DVD ENTERTAINMENT SYSTEM Connector No.   M44   Connector Name   WIRE TO WIRE   Connector Type   TH32FW-NH	Terminal   Color   Signal Nane [Specification]   1	+
BOSE AUDIO WITHOUT NAVIGATION Connector Na. M34 Connector Name COMBINATION METER Connector Type I H40FW-NH  M3.  LIZE ZE LEE ZE LEE ZE Z	Terminal   Color   Signal Name [Specification]   No.   of Wire   No.   of Wire   Of GOUND   of Color   of Co	

JCNWM3190GB

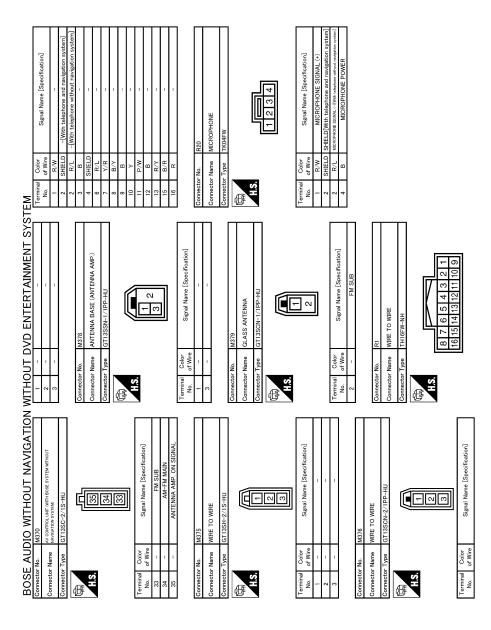
1	А
ROOM ANT2- ROOM ANT2- ROOM ANT3- PASSENGER DOOR ANT1- DRIVER DOOR ANT1- DRIVER DOOR ANT1- DRIVER DOOR ANT1- IMMOBIL ANTENNA, SIGNAL IMMOBIL ANTENNA, SIGNAL IGN RELAY (F.9) CONT ROMBIS WIRBUT 5 COMBIS WIRBUT 5 COMBIS WIRBUT 5 COMBIS WIRBUT 5 CONDITION 1 S.L. CONDITION 2 S.L. CONDITION 2 S.L. CONDITION 1 S.L. CONDITION 1 S.L. CONDITION 1 S.L. CONDITION 1 S.L. COMBIS SWIRBUT 4 COMBIS SWIRBUT 1 COMBIS SWIRBUT 2 HAZARD SW S.L. COMM	В
N   N   N   N   N   N   N   N   N   N	С
72 74 74 75 76 88 88 88 88 88 89 89 99 100 100 100 100 110 111 111 111 111	D
erification] on system] on system] on system] space of size in the size is less in the size is less in the size in	Е
Name   Special Speci	F
Name	G
Connector No.   Connector Name   Conne	Н
WITHOUT DVD ENTERTAINMENT SYSTEM  44 P V  45 P V  46 L  47 Y  48 L  49 SHELD  50 SHELD  51 W  52 B  53 SHELD  64 Y  65 SHELD  70 L  71 R  72 L  73 SHELD  74 R  75 SHELD  76 SHELD  77 R  88 SHELD  78 SHELD  79 SHELD  70 L  88 SHELD  70 L  88 SHELD  71 R  88 SHELD  70 L  88 SHELD  71 R  88 SHELD  72 L  88 SHELD  74 R  88 SHELD  75 SHELD  76 SHELD  77 R  88 SHELD  78 SHELD  79 SHELD  70 L  88 SHELD  70 L  88 SHELD  71 R  88 SHELD  72 L  88 SHELD  74 R  88 SHELD  75 SHELD  76 SHELD  77 SHELD  78 SHELD  79 SHELD  70 SHELD  70 SHELD  71 SHELD  72 L  88 SHELD  74 SHELD  75 SHELD  76 SHELD  77 SHELD  78 SHELD  79 SHELD  70 SHELD  70 SHELD  70 SHELD  71 SHELD  72 SHELD  73 SHELD  74 SHELD  75 SHELD  76 SHELD  77 SHELD  78 SHELD  78 SHELD  79 SHELD  70 SHELD  70 SHELD  70 SHELD  70 SHELD  71 SHELD  72 SHELD  73 SHELD  74 SHELD  75 SHELD  76 SHELD  76 SHELD  77 SHELD  78 SHELD  78 SHELD  79 SHELD  70 SHELD  70 SHELD  70 SHELD  70 SHELD  70 SHELD  70 SHELD  71 SHELD  72 SHELD  73 SHELD  74 SHELD  75 SHELD  76 SHELD  76 SHELD  77 SHELD  78 SHELD  78 SHELD  79 SHELD  70 SHE	I
/D ENTERTAIN	J
OUT D	K
z	
TGATIO	L
WIRE SSITE S	M
M171 M171 M171 M171 M171 M171 M171 M171	AV
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JCNWM3191GB	
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Revision: 2009 September AV-173 2010 Murano

BOSE AUDIO WITHOUT NAVIGATION Connector No. MI24 Connector Name WIRE TO WIRE Connector Type INSIZEBR-CS	>	Connector No. Connector Name Connector Type	M.129 AV COGNITIOL, UNITY WITH BORE INSTEAN WITHOUT WASHALDING SISTEM THRACKING SISTEM THRA	66 68 73 74	× P SHELD R R BR	AUX IMAGE SIGNAL[Without DVD playor] CONNECTION RECOGNITION SHELD COMPOSITE MAGE GND[With DVD playor] AUX IMAGE GND[Without DVD playor]
H.S. 5 4 1 3 2 1 1 12 11 10 9 8 7 6	12 3 4 5 6 7 8 9 19 10 11 12 13 14 15 16 17 18 20	HS. 4774	47 46 45 44 43 42 41 40 39 38 37 36 59 58 57 56 55 54 53 52 51 50 49 48	Connector No. Connector Name Connector Type		M131 An obstroal with bode dystem without without several obstroal management of the several obstroal obstruction obstroal obstruction obstructi
Terminal   Color   Signal Name [Specification]   Of Wire   Signal Name [Specification]   1   P   -	Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   No. of Wire   STRG SW A   No. of Wire   No. of	Terminal   Color     No. of Wire     36   L     37   P     38   Y     39   L     40   G	Signal Name [Specification] COMPOSITE IMAGE SIGNAL COMPOSITE INACE GND RGB (GBELUE) SIGNAL RGB (GBELUE) SIGNAL RGB (GREEPEN) SIGNAL	ほ. H.S.	91 90 89	28 69 70 70 77 77 70 70 70 90 90 90 70 70 70 70 70 70 70 70 70 70 70 70 70
Н	- x - m	ᇙ		Terminal No.	Color of Wire	Signal Name [Specification]
8 B R R GH	Gonnector No M128	44 G W	RGB AREA (YS) SIGNAL COMM (DISP->CONT) HP	80	A R	TEL VOICE SIGNAL (+) TEL VOICE SIGNAL (+) SHIFL D
₩	e e	$\mathbb{H}$	SIGNAL GND SIGNAL VCC	82 83	++	SOUND SIGNAL RH (-)[With DVD player]  Pod SOUND SIGNAL RH (-)[Without DVD player]
1	Connector Type A12FW	φ φ		83	TT	SOUND SIGNAL RH (+)[With DVD player] Pod SOUND SIGNAL RH (+)[Without DVD player]
Connector No. M125	<b>E</b>	tt	COMM	86	Ħ	GND CAN-H
$\neg \neg$	22 24 30 32 21 23 25 26 27 28 29 31	57 R 58 BR 59 Y	VP INVERTER GND INVERTER VCC	88	- R	CAN-L AV COMM (H) AV COMM (L)
The state of the s				90	0 7	AV COMM (H) AV COMM (L)
6 8 10 12 14	inal Color of Wire	Connector No.	M130 AV CONTROL UNIT WITH BOSE SYSTEM WITHOUT MANUFACTION.	96	α ω ;	AUX SOUND SIGNAL RH (+) AUX SOUND SIGNAL LH (+)
1 3 5 7 9 11 13 15	21 B SATELLIE RADIO SOUND SIGNAL LH (-) 22 G SATELLIE RADIO SOUND SIGNAL LH (+) 23 C CATELLIE RADIO SOUND SIGNAL LH (+)	Connector Type	TH16FW-NH	98	≥ Ø -	SOUND SIGNAL GND SOUND SIGNAL LH (~)[With DVD player]
Terminal Color Signal Name [Specification]	96	優 HS,		86 66	B B B	IPOS SOUND SIGNAL LH (+)[Without DVD player] SOUND SIGNAL LH (+)[With DVD player] IPOS SOUND SIGNAL LH (+)[Without DVD player] SUIEI DIMAL LN (+)[Without DVD player]
	æ ×		67 66 65 64 63 62 61 60 75 74 73 72 71 70 69 68	00 10	SHIELD	SHIELD[Without DVD player] SW GND
5 SB ILL CONT 6 R AV COMM (H)	30 B COMM (CONT~>SAT)			103	ΝO	EJECT SIGNAL IGNITION
٦>	П	Terminal Color No. of Wire	Signal Name [Specification]	105	SB D	REVERSE PARKING BRAKE
W EJI	П	Н		107	>	VEHICLE SPEED (8-PULSE)
		M 99	COMPOSITE IMAGE SIGNAL[With DVD player]			

JCNWM3192GB

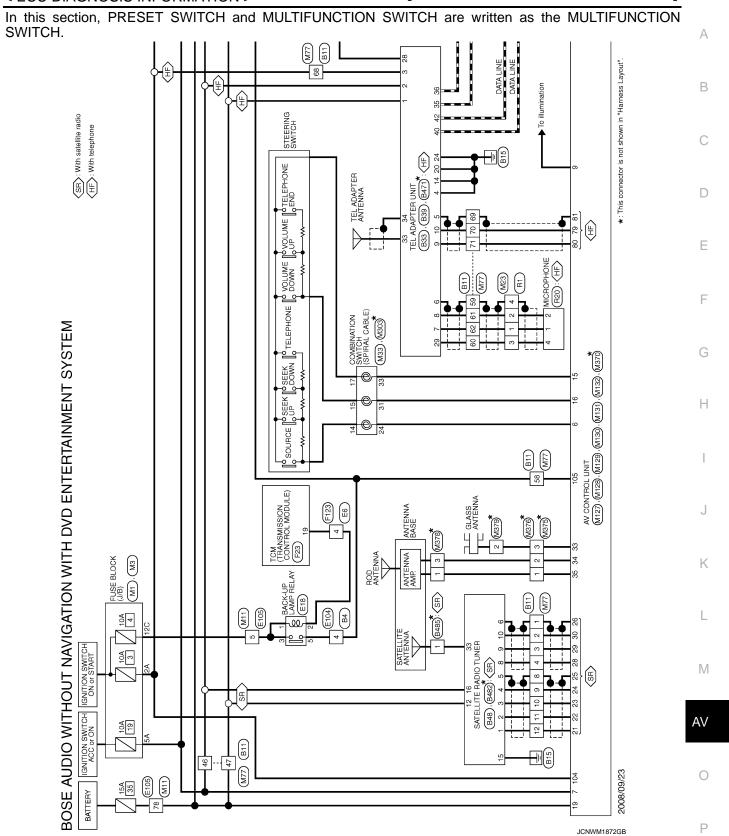
	А
Signal Name [Specification]  iPod SOUND SIGNAL LH(+)  Pod SOUND SIGNAL CND  COMM (Pod->Pod ADAPTER)  COMM (Pod->Pod ADAPTER)  COMM (Pod >Pod ADAPT	В
TYMBI	С
Terminal   Color     No.   of Wir     1   12     2   R     5   R     6   G     7   V     10   SHELL     11   SHELL     11   SHELL     12   SHELL     14   SHELL     15   Connector Name     14   SHELL     15   Connector Name     15   Connector Type     16   Color     17   Color     18   Color     19   Color     10   Color     11   Color     12   Color     13   Color     14   Color     15   Color     16   Color     17   Color     18   Color     19   Color     10   Color     10   Color     11   Color     12   Color     13   Color     14   Color     15   Color     15   Color     16   Color     17   Color     18   Color     19   Color     10   Color     10   Color     11   Color     12   Color     13   Color     14   Color     15   Color     15   Color     16   Color     17   Color     18   Color     19   Color     10   Color     10   Color     11   Color     12   Color     13   Color     14   Color     15   Color     15   Color     16   Color     17   Color     18   Color     19   Color     10   Color     10   Color     11   Color     12   Color     13   Color     14   Color     15   Color     15   Color     16   Color     17   Color     18   Color     19   Color     10   Color     10   Color     11   Color     11   Color     12   Color     13   Color     14   Color     15   Color     15   Color     16   Color     17   Color     18   Color     19   Color     10   Color     10   Color     11   Color     12   Color     13   Color     14   Color     15   Color     15   Color     16   Color     17   Color     18   Color     18   Color     19   Color     10   Color     10   Color     11   Color     12   Color     13   Color     14   Color     15   Color     15   Color     16   Color     17   Color     18   Color     19   Color     10   Col	D
S  At Ref (*)  [Nut. cut)  [Nu	Е
Signal Name [5]  Signal Name [5]  Signal Name [5]  South Digital  South Digital  ND Signal LH (+)  South Digital  ND Signal LH (+)  Thirder GINDIWING  SHELDIWAH [1]  Y  Y	F
	G
1   1   1   1   1   1   1   1   1   1	Н
Signal Name [Specification]	I
AV D ENTERT.	J
15   SHELD   SHELD   SHELD     1   SHELD	K
	L
MITCO   NITHOUT NAVIGA	M
OIO   OI   OI   OI   OI   OI   OI   OI	AV
BOSE AUIC   Connector No.	0
JCNWM3193GB	Р

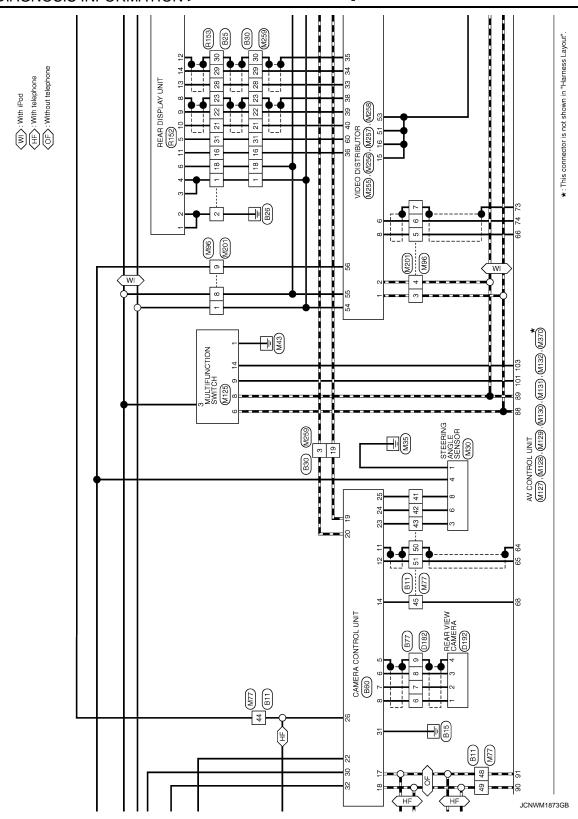


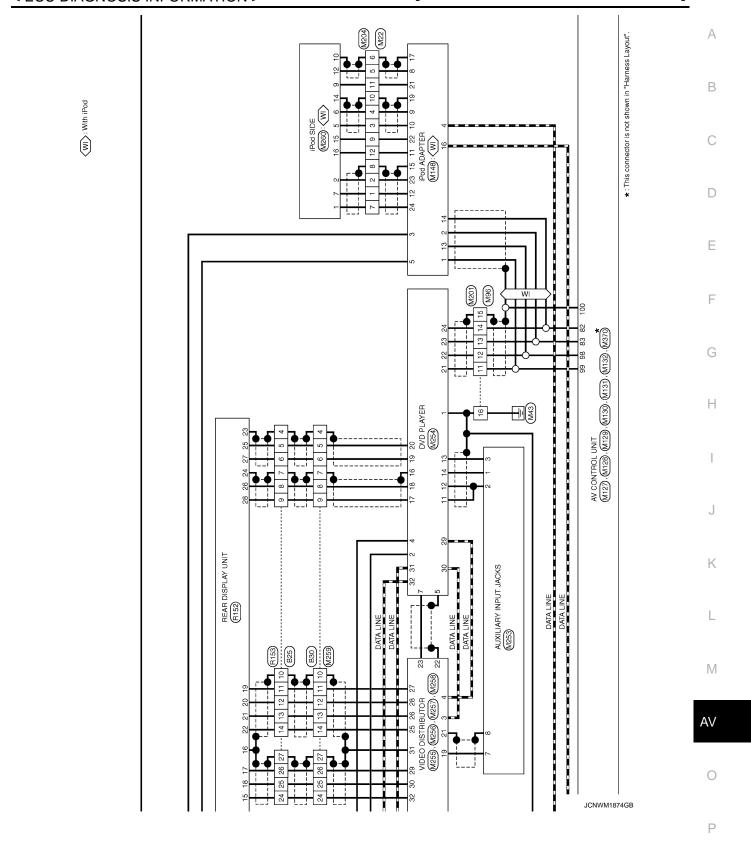
JCNWM3194GB

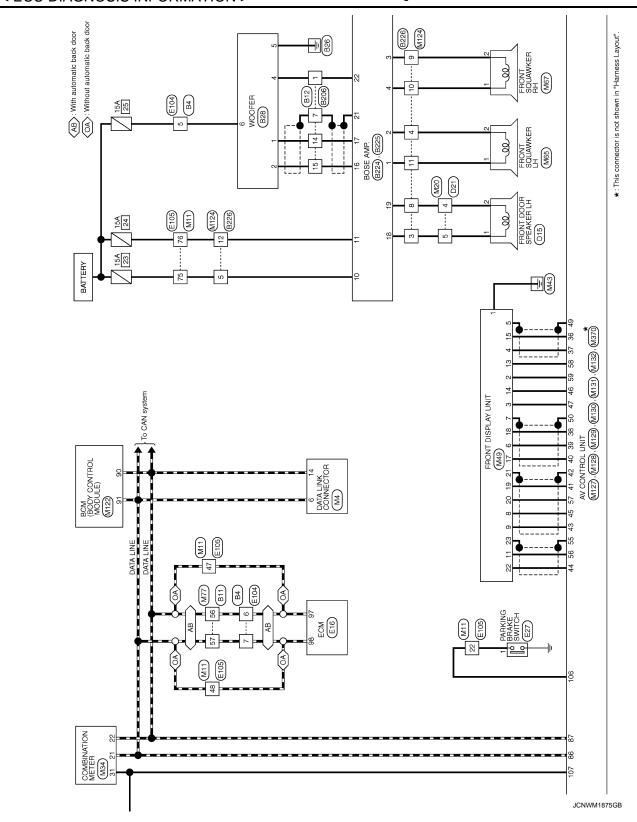
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAIN-MENT SYSTEM -

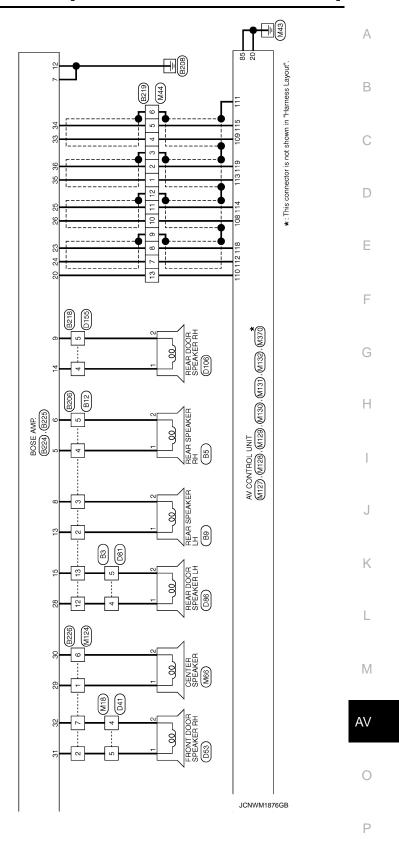
NOTE:

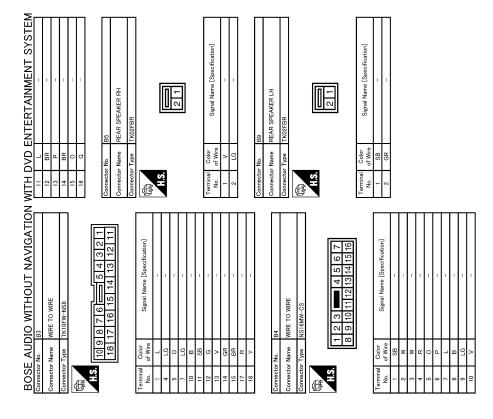












JCNWM3195GB

# **AV CONTROL UNIT**

	BOSE AU	BOSE AUDIO WITHOUT NAVIGATION	MITH	DVD ENT	WITH DVD ENTERTAINMENT SYSTEM	H						ſ
	Connector Name	WIDE TO WIDE	45	¥ –	1	97 R			5 W/R			
		$\neg$	46	GR	1	98 FG	-		1/M 9		ı	Τ
	Connector Type	I H80MW-CS19	4/	4	Daniel	66	1		T			Ī
	Œ.		40	ממ	Twith rear view camera and telephone				T		1	
	寺	Ļ	2	+		Connector No	B13		10 00			
	E S		CF CF	. 0			Т		Т			
		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 2	0		Connector Name	e WIRE TO WIRE		t			
		8 995 44	5	ه ه			00 110000		t			
		F	32	٥ ;		onlinearing 1 year	1	1	t			
		5	ñ	- (	1	Q.			+		1	
			54	5	1	季			1			
	lerminal Color	Signal Name [Specification]	22	AR.	1	S		F	1		1	
			26	n.	1		7 6 5 4 3 2 1		1		1	
	1 SHELL	-	57	7			16 15 14 13 12 11 10 9 B	_	22 W/R		1	
	2 B		58	œ	1		0 01 11 21	71	1		1	
	3 R/L		59	SHIELD	1				24 B		1	
	4 R/W	_	09	В							-	
	5 SB		61	R/L	1			-	П			
	9		62	R/W	1	No. of Wire	ire Signal Name [Specification]	_	Г		1	
	۷ /	1	63	PC	1		1		28 B		1	
	SHIFI I	- 1	64	>	1	6	11		Г			
	0 00/1		99	. ac		9 6			30 CHIELD			
	Т		00	5	1	+			Т			
	+		60	5 0	1	+			┪			1
	10		8	2 1		ם ב						
	+		000	SHIELD		Ť				000		ſ
	2 3		0 1	Y/K	1	ο ( 20 (			Connector No.	828		Ī
	+		1/	H/H	1	$^{+}$			Connector Name	WOOFER		
	+		72	<b>&gt;</b>	1	+						
	+		73	FG	I	+			Connector Type	RS06FGY-PR		
	+	1	74	SB	1	12 LG	1		ą			
		_	75	٦	_	13 0	_		厚			
		1	9/	5	1	14 W/			Ę	L	[F	
	H	1	77	œ	1	15 B/R	- 2		ŽĮ.	<u></u>	A	
	21 LG	1	78	SHIELD	1					7 7	<u></u>	
	-		62	æ	1					ミン	2/	
	╁		80	3	1	Connector No	B95			1	Ŋ	
	+		8 6	: 0			Т					
	+		8	r.	1	Connector Name	e WIRE TO WIRE					ſ
	+		28	7	1		T		lerminal Color		Signal Name [Specification]	
	+	-	83	BR	ı	Connector Type	TH32MW-NH					
	28 W/L	1	84	0	1	þ			1 W/R		SOUND SIGNAL WOOFER (-)	
	30 P	=	85	g	=	身			2 B/R		IGNAL WOOFER (+	_
	-	-	98	SB	1	Ę			4 W	WOOFE	RAMP, ON SIGNAL	
	┞		87	~	1	2	/		H		GND	
	34 SR		88	: @	1	-	6 7 8 9 10 11 12	1 15 16	t		BAT	
	۱		8	, 5		1	93 24 25 26 27 28	29 30 31 32	+		5	]
	T		80	á ?		]						
	+		90	-	1							
	+		5	5								
	+	1	92	BR	1	Terminal Color	or Signal Name [Specification]	_				
	+	1	93	ŋ	1							
	42 SB	-	94	> {	1	- SB						
	$\dashv$	-	92	BR	1	2 B						
J												
ICN												
1W												
'M												
31												
96												
6G												
В												
Р	0	L V		K	J	Н	F	Е	D	С	В	Α
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BOSE AUDIO WITHOUT NAVIGATION	_	TH DVD E	WITH DVD ENTERTAINMENT SYSTEM					
Connector No. B30	္ပ	Connector No.	B33	Connector No.	or No. B48	8		
Connector Name WIRE TO WIRE	8	Connector Name	TEL ADAPTER UNIT	Connector Name		SATELLITE RADIO TUNER	22 R REVERSE	
Connector Type TH32FW-NH	8	Connector Type	TH08FW-NH	Connector Type	Т	A16FW	SB	
	] ]	1		ą	1		0	
THE THE PERSON NAMED IN COLUMN	序	E.		厚			BR VEHICLE S	
ES.		H.S.		H.S.	,	7	30 GK ACC	
16 15 14 13 12 11 10 9 8 7 6 5 4 3	654321		35 37 39 41		_	7 0 0 10 11	/8 ^	
32 31 30 29 28 27 26 25 24 23	22 21 20 19 18 17		36 38 40 42		ာ -	11016976		
							Connector No.   B77	
Terminal Color Simal Name [Snecification]		la l	Signal Name [Specification]	Terminal	⊢	Signal Name [Specification]	Connector Name WIRE TO WIRE	
of Wire	1	No. of Wire	Figure 1 control of the control of t	No.	of Wire	Figure 1 and	П	
+		+	AV COMM (H)	-	J/W.	SOUND SIGNAL LH (=)	Connector lype IK12MW	
2 0 0		30 PK	AV COMM (L)	7 6	1/4	SOUND SIGNAL LH (+)		
W/R		+	AV COMM (L)	9	BR/L	SOUND SIGNAL RH (+)		
Г		$\mathbf{I}$		2	SHIELD	SHIELD	1 2 4 5	
H				9	SHIELD	SHIELD	;	
- GR/V -	· Co	Connector No.	B39	8	R/W	REQUEST (SAT->CONT)	/ 0 3	
- 6 M/L		Connector Name	TEL ADADTER LINIT	6	R/L	COMM (SAT->CONT)		
-		$\neg$		10	В	COMM (CONT->SAT)		
11 W/L -		Connector Type	TH32FW-NH	12	>	BATTERY	lal	
		Á		12	В	GND	No. of Wire	
Y/L		Œ.		16	GR	ACC		
14 BR/L –		S II					2 P –	
+							3 L –	
			3 10 12 14 16 18 20 22 24 26 28	Connector No.	or No. B60	0	Α.	
- GR		135		Connector Name		CAMERA CONTROL UNIT	6 R/L –	
1					П		7 R/W –	
┪				Connector Type		TH32FW-NH	1	
SHIELD		la l	Signal Name [Specification]	ą			က်	
8 6		No. of Wire	The second of the	手			<b>M</b> (	
23 K/L		+	BALIERT	3		[	+	
W/W		2 GR	ACC		2 4 6	8 110 12 14 16 18 20 22 24 26 28 30 32	- A 71	
T		+	COND		3	13 15 17 19 21 23 25 27 29		
3 ≥		5 SHIFLD	SHELD					
SHIELD		6 SHIELD	SHIELD					
۵		7 R/W	MICROPHONE SIGNAL	Terminal	⊢	2		
		8 R/L	MICROPHONE GND	No.	of Wire	Signal Name [Specification]		
		9 B/R	TEL VOICE SIGNAL (+)	æ	SHIELD	SHIELD		
		10 W/R	TEL VOICE SIGNAL (-)	9	В	CAMERA IMAGE SIGNAL		
		14 B	GND	7	R/W	GND		
		20 B	CONTROL SIGNAL	∞	R/L	CAMERA ON SIGNAL		
		24 B/W	CONTROL SIGNAL	Ξ	SHIELD	SHIELD		
		Н	VEHICLE SPEED (8-PULSE)	12	В	CAMERA IMAGE SIGNAL		
		29 B	MICROPHONE VCC	14		CONNECTION RECOGNITION		
				11	BR	AV COMM (L)		
				18	>	AV COMM (H)		
				5	GR.	AV COMM (1)		

JCNWM3197GB

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اس	30SE	흿	WITH DV		-
<u>ا ر</u>	Connector No.		12 G		W/L
U	Connector Name	Name WIRE TO WIRE	> d 41	Connector Name BOSE AMP.	25 W/L SOUND SIGNAL REAR LH (+)
ıυ	Connector Type	Type NS16MW-CS	Н	Connector Type SGA12FBR-SJA2	GR/V
שנ	€ E		17 R – 18 GR –	Œ	28 G SOUND SIGNAL REAR DOOR SPEAKER LH (+) 29 V SOUND SIGNAL CENTER SPEAKER (+)
	E.S.	1 1			а a
I		8 9 10 11 12 13 14 15 16	Connector No. B219	13 12 1	<b>5</b> ≻
		01 21 11 01 0	Connector Name WIRE TO WIRE	987651	33 W/R SOUND SIGNAL FRONT RH (+)
ı			Connector Type TH32MW-NH		W/R
	lerminal No.	Color Signal Name [Specification]		Terminal Color Signal Name [Specification]	B/R
1	T	- M	<b>0</b> -	LG SOUND SIGNAL	
	2	GR –		2 ^	Connector No. B226
	e •		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 1 17 18 19 10 20 20 20 20 30 30 30 31 3	22 L SOUND SIGNAL FRONT SQUAWKER RH (=)	Connector Name WIRE TO WIRE
	T	- 88		L >-	Connector Type NS12MBR-CS
1	П	SHIELD -		6 BR SOUND SIGNAL REAR SPEAKER RH (-)	1
	8	- 8	la	В	修
_1	6	M	0	BR SOUND SIGNAL REAR SP	
	9 :		$\dagger$	O SOUND SIGNAL F	1 2 3
	= \$	a (	2 B/R	10 SB BALLERY	6 7 8 9 10 11 12
	2 5		W/P	£ a	
1	5 4		1 B/R	GR SOUND SIGNAL	
_	15		f	)S	L
1		-	7 GR/V -		No. of Wire Signal Name [Specification]
			8 W/L –		- ^ 1
υ	Connector No.	No. B218	Ħ	Connector No. B225	BR
O	Connector Name	Name WIRE TO WIRE	10 GR/V -	Connector Name BOSE AMP.	W >
IO	Connector Type	Type TK10FW-NS8	12 SHIELD -	Connector Type SCA19FBR-SGA4	. gg
ت ر	8		П	á	- d 9
<u> </u>	厚		-	修	-
	ES		+		ω -
•		9876 = 5432	X W 21	37 36 35 34 33	
		[18] 17 [16] 15 [14] 13 [12] 11	H	[27] 26 25 24 23 22 21 20 19 18 17 16 15	re Fig
			30 P		12 GR –
L	L		+	ŀ	
_	la la	Color Signal Name [Specification]	32 BR –	a	
	oN ,	e.		of Wire	
1	- .	W -		15 R SOUND SIGNAL REAR DOOR SPEAKER LH (=)	
	4	C -[With BOSE system]		2/2	
_	2	O -[With BOSE system]			
	2	0		В	
	7	- 0			
	10			SHIELD	
	=	,		22 W WOOFER AMP. ON SIGNAL	
JC					
CNV					
۷M					
319					
18G					
В					

BOSE AUDIO WITHOUT NAVIGATION		*:		H	1
Connector Name TEL ADAPTER UNIT	Connector Name	FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)	1	+	1
Connector Type GT16C-1S-HU	Connector Type	NSO2FBR-CS 31 BR		29 0	
7		32		Ľ	1
	C C	┝	1	H	1
	\	>		H	1
	ė E	7			1
33		1		-	1
3.4		GR		35 L	1
5]		H			
		; ×			
Color	Terminal	45 SB		Connector No.	D53
of Wire Signal Name [Specification]	Š	Signal Name [Specification]		П	
	-	> 05		Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)
SHIELD	2			Connector Type	NS02FBR-CS
		92 P	-[With automatic drive positioner]		
			-[Without automatic drive positioner]	Œ	
Connector No. B482	Connector No.		-[With automatic drive positioner]		
Т		d 253	-[Without automatic drive positioner]	Ź	
Connector Name SATELLITE RADIO TUNER	Connector Name	WIRE TO WIRE	-[With automatic drive positioner]		]
Connector Type EAKRA	Connector Type	TH40FW-CS15	Without automatic drive positioner		2 1
1		27 24	-DMith automatic drive positioned		
	1	2 c	-[Without automatic drive positioner]		
	Ť	,		Tarminal	
	Š	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1			Signal Name [Specification]
33	_	4645544443623414d39383738 [282324232212019181716] Connector No.   D41		t	1
34				2 B	1
]					
		Connector Type   TH40FW-CS15			
Color Signal Name [Specification]	Terminal	Color Signal Name [Specification]			
		<b>手</b>			
= SAIELLIE ANIENNA	- ‹	H.S. 12121110 0 8 7 8 8 7 8 9 9	4 2 2 1		
	7 0		- × 0		
ſ	η.	445 454 443 442 41 441 539 531 535 531 532 531 532 531 532 531 531 531 531 531 531 531 531 531 531	26252423222720 19 18 17 16		
Connector No. B485	4		(		
Connector Name ANTENNA BASE (SATELLITE ANTENNA) (WITH BOSE	2				
	9	SB =			
Connector Type GT16C-1PP-HU	7	- Terminal Color	Simal Name [Specification]		
	8	BR - of Wire Orginal Ivanie	- Checulcation		
[	6	GR -	1		
	10	- 2			
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C	į				
7	c C		1		
	91	0	-		
	17	Y = 8	_		
Color Signal Name [Specification]	18	g	-		
	19	- 17	1		
- SATELLITE ANTENNA	20	LG - 18 GR	_		
	24	BR	1		
	25	- 20			

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	[toti]		Α
12 13 14 15 6	Signal Name (Specification)		В
E6   WIRE TO WIRE   TK16MGY-1V			С
Connector No. Connector Name Connector Type	Color   Colo		D
			E
	Signal Name [Specification]		_
D182 WRE TO WRE TK12PW  5 4 3 6 7 1 12 11 11 10 9 8 7			F
P 0			G
	Terminal   Co   No.   Or   No.   Or   Or   Or   Or   Or   Or   Or   O		Н
WITH DVD ENTERTAINMENT SYSTEM Connector No. D106 Connector Name Read DOOR SPEAKER RH WITH BOSE SYSTEM Connector Type INSQFBR-CS  THE CONNECTOR INSQFBR-CS  THE CONNECTOR INSQFBR-CS	offication]		I
ENTERTAINMENT SYST	Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]		J
Modern Per CS Process	MIRE TO 155 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Connector No.   Connector No		K
IGATION   10   10   10   10   10   10   10   1	SYSTEM)		L
OUT NAVIO	Signal Name (Specification)  R SPEAKER LH (WITH BOSE SYS		M
BOSE AUDIO WITHOUT NAVIGATION	Signal Name [Specification]		AV
BOSE AUD Connector No. Connector Type  H.S.  12	Color   Colo	•	0
B G G G G G G G G G G G G G G G G G G G		JCNWM3200GB	
			Р

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BOSE A	BOSE AUDIO WITHOUT NAVIGATION	I WITH DVD ENTERTAINMENT SYSTEM						
Connector No.	E16	Connector No. E18	2 SB	1	6	30 Y	-	
Connector Name	MU	Omegas Name BACK-IID I AMD BEI AV	3 L	-	4	47 P	_	
OOIIIIGGGG Mai			4 R	_	4	-	_	
Connector Type	e RH24FB-RZ8-L-LH	Connector Type MS02FL-M2-LC	2 F	1	4	49 SB	1	
١		ú	d 9	1	4)	50 GR	1	
修			7 L	-	4,	51 LG	_	
Ě		2	8 B/W	-	45	52 V	1	
11.0	82 86 90 94 98 102 106 110		9 SB	-	4,	53 GR	-	
	82 87 84 85 88 102 103	3	10 GR	-	4)	54 BR		
	84 88 02 06 100 112	<u> </u>	11 R	-	4)	55 Y		
			12 W	-	4)	26 W/L	_	
			13 P	1	9	A 09	1	
lai	lor Simal Name [Specification]	lal	14 V	-		61 BR	-	
No. of W	of Wire	в	15 У	1		$\dashv$	-	
81 W		1G	16 L	1	ຶ	┪	1	
$\dashv$	O APS2	2 R -				64 SHIELD		
$\dashv$	BR AVCC1-APS1	3 LG				$\dashv$	1	
84 E	B GNDA-APS1	5 R	Connector No.	E105	•	67 BR	_	
$\dashv$			Connector Name	WIRE TO WIRE		$\dashv$	1	
8e SI	SB FTPRES					69 SB	_	
87 G	IR AVCC2-APS2	Connector No. E27	Connector Type	TH70MW-CS10-M3	_	70 GR	1	
88 0		Omnoctor Nome DA DICTNG DDANG SIMITOU	4		_	Н		
91	- AVCC2-FTPRES		E			72 Y	1	
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	G GNDA-APS2		No. of Wire		ω	80 R	1	
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	B GND		6 GR	_				
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109 v	w cDcv	Connector No. E104	11 P	_				
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112 B	B GND	Connector Type NS16FW-CS	14 0	1				
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BOSE A	E AUE	BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAINMENT SYSTEM	WITH DV	DVD F	ENTERTAINMENT SYSTEM	Connector No.	МЗ	
Connector Name	or Name	TCM (TRANSMISSION CONTROL MODULE)	Connector Name	r Name	WIRE TO WIRE	Connector Name	FUSE BLOCK (J/B)	
Connector Type	П	RH40FB-RZ8-L-RH	Connector Type	r Type	TK16FGY-1V	Connector Type	NS12FW-CS	
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Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal Color No. of Wire	Signal Name [Specification]	
-	P/B	INH SW 2	-	٦	1	6C BR	1	
2	P/L	INH SW 3	3	G/R	-	7C B	-	
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4	æ,	INH SW 3 MON	ı,	ا ۽	1	+	1	
5 /	n ≥	GND SENSOR GND	ω «	ž .	1 1	10C SB		
. 8	G/W	CLOCK (SEL2)	9	Y/B	1	╀	1	
6	L/R	CHIP SELECT (SEL1)	Ξ	BR/W	THE STATE OF THE S			
10	BR/R	DATA I/O (SEL3)	12	BR	_			
Ξ	BR/W	INH SW 1	13	9	T	Connector No.	M4	
13	>	ATF TEMP SENSOR	14	В	-	Connector Name	DATA LINK CONNECTOR	
14	R/W	PRI PRESS SENSOR	15	0	I			
12	W/N	SEC PRESS SENSOR				Connector Type	BD16FW	
19	g/B	REV LAMP RELAY				4		
50	R/B	STARTER RELAY	Connector No.	r No.	M1	手		
52 26	×/×	SENSOR GND	Connecto	Connector Name	FUSE BLOCK (J/B)	H.S.	9 10 11 12 13 14 15 16	
27	R/G	Q-W/S	Connector Type	r Type	NS06FW-M2		21 21 11 21 21 11 21 2	
58	ď	S/M-C	֓֞֞֜֜֟֜֜֞֜֜֜֟֜֜֟֜֟֜֟֜֟֟֜֟֟ ֓֓֓֓֓֓֓֓֓֓֞֞֓֓֓֓֓֞֞֓֓֓֓֓֞֓֓֓֓֓֓֓֓֓֓			_	1 2 3 4 5 6 7 8	
59	0/B	S/M-B	F					
30	G/R	S/M-A	VIIV					
31	۵.	CAN-L			3A   2A 1A	ā	Signal Name [Specification]	
32	_	CAN-H			8A 7A 6A 5A 4A	No. of Wire		
88 5	5 0	PRI SPEED SENSOR				4 n		
\$ 5	2/2/2	SEC SPEED SENSOR				+		
ر م	¥/^	L/USSEL-ON/OFF SOL	Termina	Color		9 6		
8 8	W/B	SEC-LINEAR SOL	Š	of Wire	Signal Name [Specification]		1	
40	Σ	PL LINEAR SOL	₹	>	1	╀	1	
42	В	GND	2A	ŋ	1	7 Y	-	
46	γ	VIGN	3A	Υ				
47	L/R	BATT	44	GR	1			
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	<b>a.</b> 3	+	50 GP — Mith automatic drive positioner	ś	-	^	ΓC	- 9	_	55 O -[Without automatic drive positioner]		Connector No M23	Τ	Connector Name WIRE TO WIRE	Connector Type TH12FW-NH		修	<u> </u>	֡֜֞֜֜֜֜֜֜֜֜֜֜֓֓֓֓֜֜֜֜֜֓֓֓֓֓֓֓֜֜֜֜֜֓֓֓֓֓֜֜֡֓֓֡֓֡֓֡֓֡֓֡֓֡֓֡֡֡֡֓֡֡֡֓֜֡֡֡֡֓֜֡֡֡֡֡֓֡֡֡֡֡֡	<u>ກ</u>	12 11 10 9 8 7		ŀ	lar	No. of Wire	+	rı	7 Y		SHIELD	DT _	8 SHIELD -	9 BR -	10 SHIELD -	$\dashv$	12 R –												
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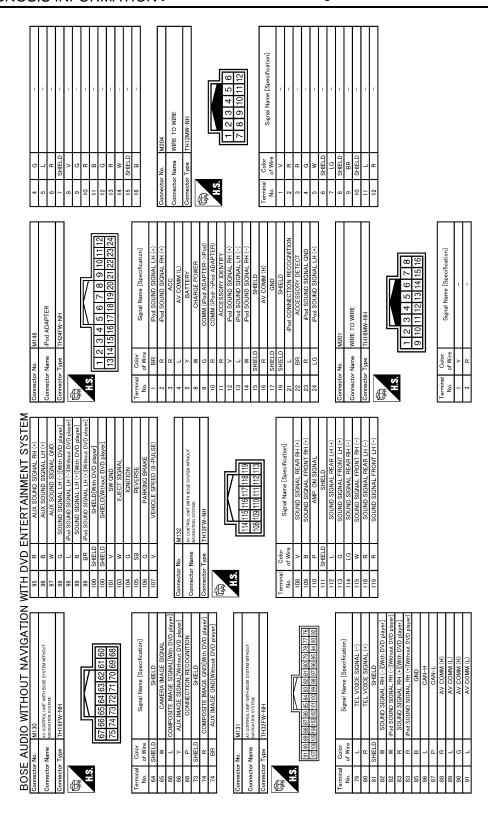
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Connector Name   FRONT DISPLAY UNIT	
14   GR	
Connector Name   Code   Code	
BOSE AUDIO WITHOUT NAVIGATION	CNWM3204GB

BOSE AUDIO WITHOUT NAVIGATION		H DVD	WITH DVD ENTERTAINMENT SYSTEM	37	>	1	06	g	1	
г	^	α	-[With BOSF system]	40	С	1	91	9	1	
Connector Name FRONT SQUAWKER LH	2	*	-[Without BOSE system]	14	0	-	92	BR	1	
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-[With BOSE evetem]			) ]	ř.	٥	1				
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E SYSTEM   1	Signal Name [Specification] COMPOSITE IMAGE SIGNAL COMPOSITE IMAGE SIGNAL COMPOSITE IMAGE SIGNAL RGB (BREIU) SIGNAL RGB (GREEN) SIGNAL RGB (GREEN) SIGNAL RGB SYNC SHRELD SIGNAL COM SIGNAL	В
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AINMEN  □  □  □  □  □  □  □  □  □  □  □  □  □	Signal Name [Specification]	
MI24 WIRE TO WIRE NISIZEBR-CS  5 4	Signal Name (Spending)  MIZS  MULTIFUNCTION SWITCH  THIGFW-NH  THIGFW-NH  THIGFW-NH  AN COMM  AV COMM	J
H DVD ector No.	Terminal Color of Wire P	K
<u>ĕ</u> ⊓⊤⊓		L
AVIGAT	Signal Name [Specification]  ROOM ANT?- ROOM ANT?- ROOM ANT?- PASSENGER DOOR ANT- DRIVER DOOR ANT- COMBI SW INPUT 3  COMBI SW INPUT 3  COMBI SW INPUT 3  SLL DOWER SUMDON REQUEST SW BLOWER FAN MONTINO 1  SLL CONDITION 1  SLL CONDITION 1  SLL CONDITION 1  SLL CONDITION 2  SLL POWER SUMPLY 1  COMBI SW INPUT 1  COMBI SW INPUT 2  HAZAROS SW SIN INPUT 2  COMBI SW INPUT 2	
HOUT N.	Signal Name [Specification] ROOM ANTZ+ ROOM ANTZ+ ROOM ANTZ+ PASSENGER DOOR ANT- DRIVER DOOR ANT- DRIVER DOOR ANT- IMMOBI ANTENNA STRIAM. IMMOBI ANTENNA STRIAM. IMMOBI ANTENNA CONTROL IMMOBI ANTENNA CONTROL IMMOBI ANTENNA STRIAM. COMBI SW INPUT 5 COMBI SW INPUT 5 COMBI SW INPUT 5 CAN-I KEY SLOT ILL CAN-I CAN-I CAN-I CAN-I CAN-I CAN-I S'-L CONDITION 2 S'-L CONDITION 3 S'-L CONDITION 4 S'-L COND	M
AUDIO WITHOUT NAVIGATIO Name MI22 Name BCM (BODY CONTROL MODULE) Type ITH40FB-NH  TYPE ITH40FB-NH  TYPE ITH40FB-NH  TYPE ITH40FB-NH	Signal Si	AV
BOSE AUD Connector Name Connector Type H.S. Historical Properties	C C C C C C C C C C C C C C C C C C C	0
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BOSE AUDIO WITHOUT NAVIGATION	N WITH DVD ENTERTAINMENT SYSTEM		
Connector No. M253	В	Connector No. M257	16 B GND
Connector Name AUXILIARY INPUT JACKS	22 G SUUND SIGNAL LH (-) 23 R SOUND SIGNAL RH (+)	Connector Name VIDEO DISTRIBUTOR	SHIELD
Connector Type A08FW	W	Connector Type TH16FW-NH	SHIELD
4	29 L AV COMM (L) 30 B AV COMM (H)		23 P DVD IMAGE SIGNAL
	Н		
	32 R AV COMM (H)	10 80 30 30 30 40	Т
1 2 3 4 5 6 7 8		27 29 31 33 35 37	Connector Name WIRE TO WIRE
	Connector No. M255		Connector Type TH32MW-NH
Terminal Color	Connector Name VIDEO DISTRIBUTOR	Terminal Color	
of Wire	Connector Type TH08FW-NH	of Wire	
æ	Q	+	1
2 W SOUND SIGNAL GND		26 L RGB (G:GREEN) SIGNAL	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
5 m		BGB (	
Н	54 56 60		
SHIELD	53 55	W	Terminal Color Signal Name [Specification]
8 AUX IMAGE GND[Without DVD player]		SHELD	
	H	32 B RGB AREA (YS) SIGNAL	> C
Connector No. M254		D 8	SHEID
Г	53 B GND	SHIELD	
Connector Name DVD PLATER	BA	5	- ^ 9
Connector Type TH32FW-NH	^	SHIELD	SHIELD
d.	9	> !	ш.
AHA	60 R HEADPHONE ON SIGNAL	40 LG COMM (DIST->DISP)	5 E
18			W TI
8 9	Connector No. M256	Connector No. M258	:: ೮
3 5 7 9 11 13 15	Γ,	Γ,	
			Н
	Connector Type TH12FW-NH	Connector Type TH24FW-NH	
Signal Name [Specification]	1	1	> -
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		/	2 >
R ILL		6 8 10 12 14 16 18 20 22	SHIELD
1	51	1 3 5 7 9 11 13 15 17 19 21 23	
9			× (
DVD IMAGE SIGNAL	- 0		26 R
ء ء	No. of Wire Signal Name [Specification]		t
: 0		~	T
14 R AUX SOUND SIGNAL RH (+)			30 SHIELD –
SHIELD		œ	α
17 G HEADPHONE SOUNDSIGNAL SIGNAL LH (+)		<b>-</b>	
$\top$		<u> </u>	
20 LG HEADPHONE SOUNDSIGNAL SIGNAL RH (-)		15 B GND	
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D8G			
iB			

Terminal Color   Signal Name [Specification]	2 SHIELD -[With telephone and navigation system]   2 SHIELD -[With telephone and navigation system]   3 B	9   8	- Connector No. R20 Connector Name MICROPHONE Connector Type TK04FW  SUNA H.S.		FE ST 10 9
WITH DVD ENTERTAINMENT SYSTEM           Commetter No.         M370         1         -           Connector Name         Workshows registration strates without and workshows registration.         2         -	Connector No. Connector Name Connector Type	[33]   H.S.	<del>                                     </del>	, p	Connector No.   M376   Connector No.   RI   Connector No.   RI   Connector Type   Connector Type   THISPW-NH   Connector Type   TH
M280 IPDIO WITHOUT NAVIGATION IPOG SIDE	Connector Type   IP16FGY	Terminal   Color   Signal Name [Specification]   No. of Wire   Forest   Pod SOUND SIGNAL LH (+)   Color   Forest   For	V	Connector No. M303  Connector Name Communation Switch (SPIPAL CABLE)  Connector Type TK08FGY  MAS  [20 19 18 17 16 15 14 13]	Terminal   Color   Signal Name   Specification   Color   Col

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ENTERTAINMENT SYSTEM RISS WIRE TO WIRE TH32FW-NH 1312[11] 109   8   7   6   5   4   3   2   1	30 29 28 27 26 25 24 23 22 21 20 19 18 17	1	1	1	ı	1	1	1	-	-	-	-	-	-	1	1	-	1	_	_	_	-	-	-	-	_	-	
OVD E No.	32 31 30 Color of Wire	Y/R	В	SHIELD	_S	>	SHIELD	BR	<b>&gt;</b>	SHIELD	W/L	Y/G	Y/L	BR/L	9	٧/٧	ГG	>	SHIELD	В	W	ш	SHIELD	g	ч	SHIELD	ч	
Connector No. Connector Name Connector Type H.S.	Terminal No.	-	2	4	5	9	7	8	6	10	11	12	13	14	16	18	21	22	23	24	25	26	27	28	59	30	31	
IIO WITHOUT NAVIC	7   9   11   13   15   17   1	GND	GND	BATTERY	BATTERY	HEADPHONE ON SIGNAL	ACC	SHIELD	COMM (DISP->DIST)	COMM (DIST->DISP)	IGNITION	SHIELD	COMPOSITE SYNC	COMPOSITE IMAGE SIGNAL	RGB AREA (YS) SIGNAL	GND	VP	HP	RGB GND	RGB (B:BLUE) SIGNAL	RGB (G:GREEN) SIGNAL	RGB (R:RED) SIGNAL	SHIELD	SHIELD	HEADPHONE SOUNDSIGNAL SIGNAL RH (-)	HEADPHONE SOUNDSIGNAL SIGNAL LH (-)	HEADPHONE SOUNDSIGNAL SIGNAL RH (+)	HEADPHONE SOUNDSIGNAL SIGNAL LH (+)
AUD Name Type	Color of Wire	В	В	Υ/R	Υ/R	œ	Υ/	SHIELD	>	LG	G	SHIELD	g	ď	В	SHIELD	œ	W	W/L	J//	Y/L	BR/L	SHIELD	SHIELD	ΓG	BR	۸	>
BOSE ALConnector No. Connector Name Connector Type	Terminal No.	-	2	က	4	5	9	æ	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27	28

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SELF-DIAGNOSIS RESULTS DISPLAY ITEM

**DTC Index** 

# < ECU DIAGNOSIS INFORMATION >

DTC	Display item	Refer to
U1000	CAN COMM CIRCUIT [U1000]	AV-93, "Diagnosis Procedure"
U1010	CONTROL UNIT (CAN) [U1010]	AV-94, "Diagnosis Procedure"
U1310	CONTROL UNIT (AV) [U1310]	AV-95, "DTC Logic"
U1200	Control Unit FLASH-ROM [U1200]	AV-96, "DTC Logic"
U1216	CAN CONT [U1216]	AV-97, "DTC Logic"
U1243	FRONT DISP CONN [U1243]	AV-98, "Diagnosis Procedure"
U1247	REAR DISP CONN [U1247]	AV-100, "Diagnosis Procedure"
U1250	CAMERA CONT CONN [U1250]	AV-102, "Diagnosis Procedure"
U1255	SAT CONN [U1255]	AV-103, "Diagnosis Procedure"
U1300 U1240	AV COMM CIRCUIT [U1300]     SWITCH CONN [U1240]	AV-105, "Description"
U1300 U1246	AV COMM CIRCUIT [U1300]     VIDEO DIST CONN [U1246]	AV-105, "Description"
U1300 U1248	AV COMM CIRCUIT [U1300]     DVD DECK CONN [U1248]	AV-105, "Description"
U1300 U1252	AV COMM CIRCUIT [U1300]     REAR CAMERA LAN CONN [U1252]	AV-105, "Description"
U1300 U1254	AV COMM CIRCUIT [U1300]     IPod CONN [U1254]	AV-105, "Description"
U1300 U1256	AV COMM CIRCUIT [U1300]     HAND FREE CONN [U1256]	AV-105, "Description"
U1300 U1252 U1256 [*]	<ul> <li>AV COMM CIRCUIT [U1300]</li> <li>REAR CAMERA LAN CONN [U1252]</li> <li>HAND FREE CONN [U1256][*]</li> </ul>	AV-105, "Description"
U1300 U1248 U1252 U1256	<ul> <li>AV COMM CIRCUIT [U1300]</li> <li>DVD DECK CONN [U1248]</li> <li>REAR CAMERA LAN CONN [U1252]</li> <li>HAND FREE CONN [U1256]</li> </ul>	AV-105, "Description"
U1300 U1246 U1248 U1252 U1254 U1256	<ul> <li>AV COMM CIRCUIT [U1300]</li> <li>VIDEO DIST CONN [U1246]</li> <li>DVD DECK CONN [U1248]</li> <li>REAR CAMERA LAN CONN [U1252]</li> <li>IPod CONN [U1254]</li> <li>HAND FREE CONN [U1256]</li> </ul>	AV-105, "Description"
U1300 U1246 U1248 U1252 U1256	<ul> <li>AV COMM CIRCUIT [U1300]</li> <li>VIDEO DIST CONN [U1246]</li> <li>DVD DECK CONN [U1248]</li> <li>REAR CAMERA LAN CONN [U1252]</li> <li>HAND FREE CONN [U1256]</li> </ul>	AV-105, "Description"
U1300 U1240 U1254* U1256*	<ul> <li>AV COMM CIRCUIT [U1300]</li> <li>SWITCH CONN [U1240]</li> <li>IPod CONN [U1254]*</li> <li>HAND FREE CONN [U1256]*</li> </ul>	AV-105, "Description"
U1300 U1240 U1246 U1248 U1252 U1254 U1256	AV COMM CIRCUIT [U1300] SWITCH CONN [U1240] VIDEO DIST CONN [U1246] DVD DECK CONN [U1248] REAR CAMERA LAN CONN [U1252] IPOD CONN [U1254] HAND FREE CONN [U1256]	AV-105, "Description"

#### NOTE:

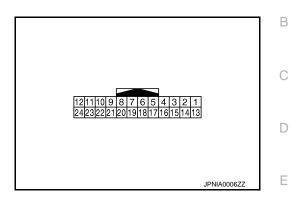
^{*:} Non-equipped item is not displayed.

## [BOSE AUDIO WITHOUT NAVIGATION]

# FRONT DISPLAY UNIT

Reference Values

**TERMINAL LAYOUT** 



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INFOID:0000000005528583

#### PHYSICAL VALUES

	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
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 (P)	Ground	Composite image GND	_	Ignition switch ON	_	0 V
5	_	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.	(V) 0. 4 0 -0. 4 SKIB2236J
7	_	Shield	_	_	_	_
8 (G)	Ground	Horizontal synchronizing (HP) signal	Output	Ignition switch ON	_	(V) 4 0 + 20µs SKIB3601E

# [BOSE AUDIO WITHOUT NAVIGATION]

	minal e color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
					When RGB image is displayed	5.0 V
9 (W)	Ground	RGB area (YS) signal	Input	Ignition switch ON	When AUX image is displayed	(V) 6 4 2 0 *********************************
11 (R)	Ground	Communication signal (CONT→DISP)	Input	Ignition switch ON	When adjusting display brightness.	(V) 6 4 2 0 +-1ms PKIB5039J
13 (BR)	Ground	Inverter GND	_	Ignition switch ON	_	0 V
14 (LG)	Ground	Signal GND	_	Ignition switch ON	_	0 V
15 (L)	4 (P)	Composite image signal	Input	Ignition switch ON	When AUX image is displayed	(V) 0. 4 0 -0. 4 → 40μs 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.	(V) 0. 4 0 -0. 4 → 40μs SKIB2238J
18 (Y)	Ground	RGB signal (B: blue)	Input	Ignition switch ON	Start confirmation/adjust- ment mode, and then dis- play color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	(V) 0. 4 0

#### < ECU DIAGNOSIS INFORMATION >

#### [BOSE AUDIO WITHOUT NAVIGATION]

	minal e color)	Description			Condition	Reference value	А
+	_	Signal name	Input/ Output		Condition	(Approx.)	
19 (B)	Ground	RGB synchronizing signal	Input	Ignition switch ON	_	(V) 4 0 → 20µs SKIB3603E	B C
20 (R)	Ground	Vertical synchronizing (VP) signal	Output	Ignition switch On	_	(V) 4 0 *** 4ms SKIB3598E	E
21	_	Shield	_	_	_	_	G
22 (G)	Ground	Communication signal (DISP→CONT)	Output	Ignition switch ON	When adjusting display brightness.	(V) 6 4 2 0 •••1ms	Н
23	_	Shield	_	_	_	_	

Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION WITHOUT DVD ENTER-TAINMENT SYSTEM -

NOTE:

K

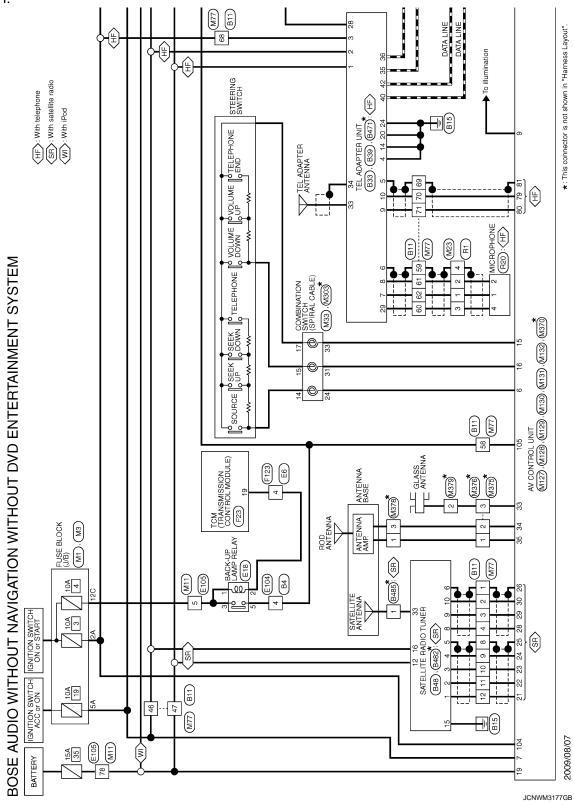
M

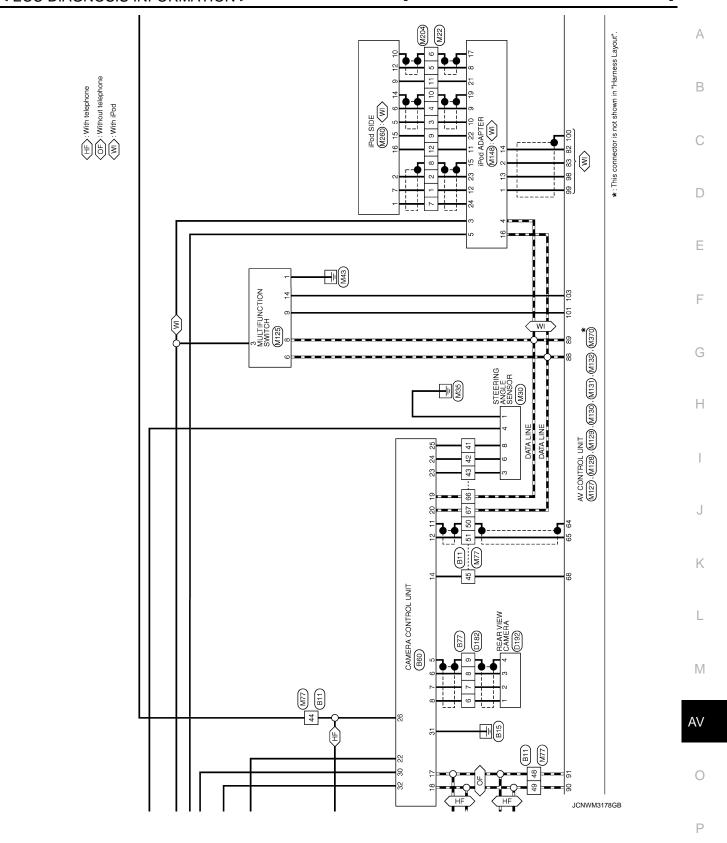
ΑV

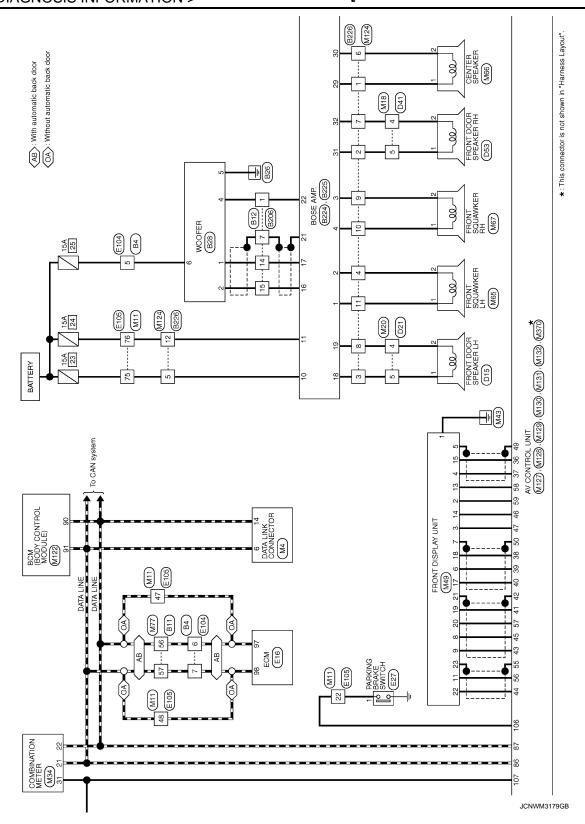
C

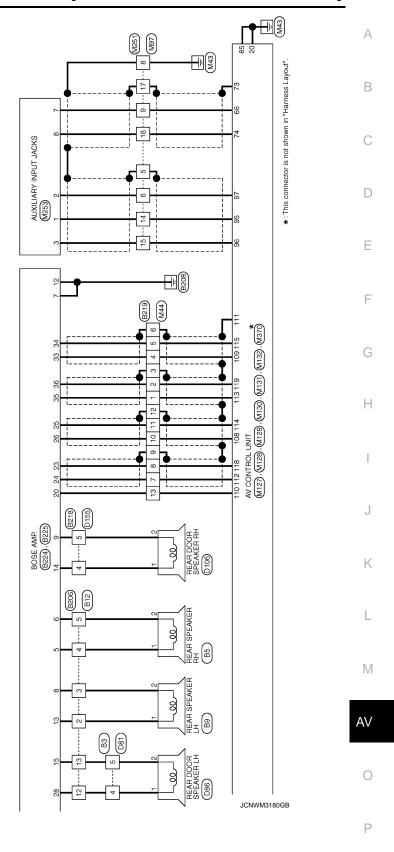
F

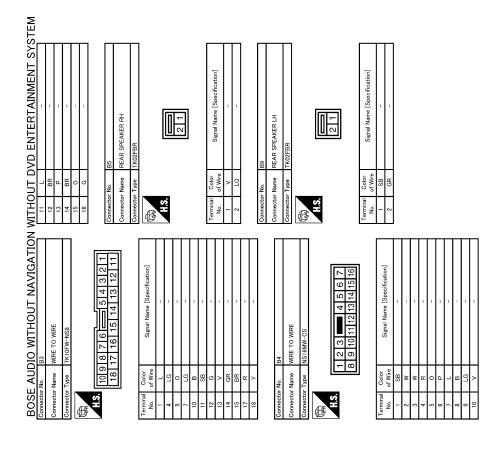
In this section, PRESET SWITCH and MULTIFUNCTION SWITCH are written as the MULTIFUNCTION SWITCH.











JCNWM3181GB

SWAL.	Α
WOOFER AMP ON SIGNAL BAT	В
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B12	F
	G
Competer Name   Competer Nam	Н
### BR   Can   Can	I
/D ENTER:	J
HOUT DN   HOUT	K
Z	ı
WIGATIO	_
Signal Name (Specification)	M
Someticar Name   BUT   MAVIGATIO	AV
BOSE AUD	
BOSTERWANDON COMPANDED TO THE TOTAL TO THE T	0
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13 R	Connector Name   WIRE TO WIRE   Connector Type   TK10FW-NS8   Connector Type   Connector Type   TK10FW-NS8   Connector Type   Connector Type	Signal Name (Specification)	†††	5 0 0 5 5 7 0 0 7 7 0 0 0 0 0 0 0 0 0 0	10 8 01	2 > G 88 0	17 R	Signal Name [Specification]	
INMENT SYSTEM   Commentor No.   1977   Commentor No.   1977   Commentor Name   WIRE TO WIRE   Commentor Type   TK/12MW   TK/12MW	H.S. (6.7 8 9)	Terminal Color   Color   No. of Wire   Color   No. of Wire   Color	0 1 8 0	2 0 1 6		Connector Name	1.5. 1.2.3 E	Terminal Color No. of Wire	2 GR 4 7 8 8 7 5 8 8 8 7 7 5 8 1 8 8 8 9 W 9 9 W
N WTHOUT DVD ENTER-    N	Connector No. 860 Connector Name CAMERA CONTROL UNIT	2 4 6 8 1012 1416 1820 22 1 1 3 5 7 9 111 1815 1719 21	Terminal Color Signal Name [Specification] No. of Wire 5 Suntri D. SHIRL D.	B CAMERA R/W CAMERA	SHIELD	RB > BG	20 G RAY COMM (H) 22 R REVERSE 23 G SENSOR SIGNAL 1 24 SB SENSOR SIGNAL 2 25 O SENSOR SIGNAL 2 25 O SENSOR SIGNAL 2 25 O SENSOR SIGNAL 2 26 O SENSOR SIGNAL 2 27 O SENSOR SIGNAL 2 28 O SENSOR SIGNAL 2 29 O SENSOR SIGNAL 2	8 8 >	
BOSE AUDIO WITHOUT NAVIGATIO Connector No. 639 Connector Name TEL ADAPTER UNIT Connector Type IH32FW-NH	1.8.	Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   No. of Wire   No	SHIELD MICRO		B/W CONTR		Connector No. B48  Connector Name SATELLITE RADIO TUNER  Connector Type A16FW	H.S. 2 4 6 7 12 14 16 1 3 5 7 8 9 10 11 13 15	Golor   Signal Name [Specification]   MVL   SOUND SIGNAL LH (+)   SOUND SIGNAL LH (+)   SOUND SIGNAL LH (+)   SOUND SIGNAL LH (+)   SOUND SIGNAL RH (+)

JCNWM3183GB

Connector No.   8482   Connector Name   SATELLITE RADIO TUNER	A B C
Signal Name   Specification   Specific	E F G
Name	H J K
BOSE AUDIO WITHOUT NAVIGATION	M AV
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BOSE AU Connector No. Connector Name Connector Type	E AUE	BOSE AUDIO WITHOUT NAVIGATION Connector Name WIRE TO WIRE Connector Type THADFW-CS15	MITH(	TUO 88	WITHOUT DVD ENTERTAINMENT SYSTEM   183   L   -[With automatic drive positioner]   183   L   -[Without automatic drive positioner]   184   185   -[Without automatic drive positioner]   185   LG   -[Without aut	Connector No. Connector Name Connector Type		DB3 FRONT DOOR SPEAKER RH (WITH BOSE GYSTEM) NSOZYEBR-CS	Connector No. D86 Connector Name REAR DOOR SPEAKER LH (WITH BOSE SYSTEM) Connector Type NS02/EBR-CS
Z.			Connector No.	Connector No. Connector Name	D41  wire TO wire	S.		<u>                                      </u>	
			Connect	Connector Type	TH40FW-CS15				
Terminal No.	Color of Wire	Signal Name [Specification]	15			Terminal No.	Color of Wire	Signal Name [Specification]	Terminal Color Signal Name [Specification]
-	>	-	S E	$\subseteq$		-	W	1	Н
2 0	g c	1			12   11   10   9   8	2	B	1	2 W =
2 4	<u> </u>			9 8	450 450 444 443 444 447   441 441 441 441 441 441 441 441 441 4				
2	W	-				Connector No.	- No. D81	11	Connector No. D106
9	SB	1		L		Connector Name		WIRE TO WIRE	Connector Name REAR DOOR SPEAKER RH (WITH BOSE SYSTEM)
_	ا ۵		Terminal	Color	or Signal Name [Specification]		_		
ω (	BR	1	Š.	ot o		Connector Type	_	TK10MW-NS8	Connector Type NS02FBR-CS
6 C	¥ >	1 1	- ^	ت >	1 1	<b>€</b>			
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17	>	-	∞ !	<u>в</u>					
8 5	¥ 8	1 1	12	5 >	1 1	Terminal	rolo	1	Tarminal
20	FG E	1	18	. GR	-	No.	of Wire	Signal Name [Specification]	
24	Д	1	19	BR	-	-	W	-	
22	^	1	20	PT	-	4	٦	1	2 W –
26	Χ	I	24	LG		2	×	1	
29	> ;	1	25	Χ,		7	ا ا	-	
30	SB	1 1	26	0 >	1 1	10	m >	1	
33	á	1	30	SB	-	12	- 6	1	
33	g	ı	31	æ		13	>	1	
34	Υ	1	32	α	-	14	۵	-	
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4	۵	1	34	>	1	17	œ	1	
45	GR	Ī	32	_	t	18	GR	1	
43	۸ ۲	1							
\$	s S								
46	œ	1							
20	>	-							
21	0								
52	۵	-[With automatic drive positioner]							
52	_	-[Without automatic drive positioner]							

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	А
BACK-UP LAMP RELAY MS0ZFL-MZ-LC  Signal Name [Specification]  E27	В
BACK-UF  E27  PARKING POIFB-A	С
Connector No.	D
110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110    110	Е
E16	F
N N N N N N N N N N N N N N N N N N N	G
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NTERTAINMENT S  EW CAMERA  NH  CAMERA LING  CAMERA LINGE SIGNAL  CAMERA LINGE SIGNAL  SHELD  SHELD  SHELD  SHELD  CAMERA INAGE SIGNAL  CAMERA LINGE SIGNAL  SHELD  CAMERA LINGE SIGNAL  SHELD  CAMERA LINGE SIGNAL  CAMERA LINGE SIGNAL  CAMERA LINGE  CAMERA	I
	J
12   G   Connector No.   D1   Connector No.   D1   Connector No.   D1   Connector No.   Conn	K
	L
WIRE  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]	M
DIO W WIRE TO THE TO TH	AV
Connector Name   Connector Name   Connector Name   Connector Type   Connector Type   Connector Name   Conn	0
JCNWM3186GB	Р

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Connector Type NS16FW-CS	13 13 15	+++-	1 1 1 1 1	3 8 8 8	Connector No.		F23 TOM (TRANSMISSION CONTROL MODULE) RH40FB-RZ8-L-RH	Connector No. Connector Typ	Connector No.	F123 WIRE TO WIRE TK16FGY-1V
4 13 2 1 13 12 11 10 9 8	22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	> H	1 1 1 1 1 1 1		H.S.	31 32 33 34 21 22 23 24 11 12 13 14 1 2 3 4	35.563 77.88 39.40 47.48 15.56 77.88 29.40 47.48 15.61 77.81 92.04 43.44 15.61 77.81 91.00 41.42	H.S.	<u> </u>	7 6 5 4 3 2 1
Signal Name [Specification]	27	₩		Ľº I	rerminal C No. of	Color of Wire	Signal Name [Specification]	Terminal No.	al Color of Wire	Signal Name [Specification]
1 1	30 3	+	1 1	<u> </u>	- 2	P/B	INH SW 2	-   8	G/R	1 1
	48 4	1 -		T	s 4	GR G	INH SW 3 MON	4 6	2 2	
-	49	SB	-		2	В	GND	9	Ľ	1
1 1	51	+	1 1	T	L 8	w S.	SENSOR GND	8 01	۲ ×	
1	52	╀	1	<u> </u>	t	Z.	CHIP SELECT (SEL1)	=	BR/W	-
1	53	Н	1		10 B	BR/R	DATA I/O (SEL3)	12	æ	1
1	54	æ		 	+	BR/W	INH SW 1	13	g	1
- 1	55	> \$	1 1	 T	13	> %	ATF TEMP SENSOR PRI PRESS SENSOR	15	<u>ш</u> С	
1	9	H	1		H	W/W	SEC PRESS SENSOR			-
_	61	BR	-	<u> </u>	H	g/B	REV LAMP RELAY			
1	62	+			+	R/B	STARTER RELAY	Conne	Connector No.	M1
1	8 83	CHIELD		I	25	×/×	SENSOR GND	Conne	Connector Name	FUSE BLOCK (J/B)
	99	Т			╁	R/G	S/M-D	Conne	Connector Type	NS06FW-M2
	67	7 BR	1		Н	œ	S/M-C	4		
Connector Name WIRE TO WIRE	89	_	1 1		30 0	0/B G/R	S/M-B S/M-A	厚		
TH70MW-CS10-M3	70	Н			H	۵.	CAN-L	Ž	á	3A2A 1A
	7 5	% >			32	<u>_</u>	CAN-H			8A 7A 6A 5A 4A
4	73	+	1 1	T	t	LG/R	SEC SPEED SENSOR			
	74	M 1	1		Н	V/R	L/U&SEL-ON/OFF SOL			
8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	75	+			+	L/W	L/U&SEL LINEAR SOL	Terminal	nal Color	Signal Name [Specification]
2	0 1	5 0		I	+	0 % D	SEC-LINEAR SOL	-	5	2
	2 2	+	1 1	l T	40 40		GND	₹   ₹	-   c	1 1
	6/	╀		L	46	2 >	Sub	4 E	, >	1
Signal Name [Specification]	2 8	-   -		I	╁	. 8/	BATT	4	- g	1
ı	8	╀	1		╁	>	NDIA	ξ	┝	1
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1	83	0	1					7A	LG	1
1								8A	≻	-

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	АВ
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	D
	Е
NWHE	F
Name   Mills   Name	G
FRA	Н
Connector Name   WITHOUT DVD ENTERTAINMENT SYSTEM   Connector Name   Wife TO WIFE   Connector Name   Wife TO WIFE   Connector Type   ThyoFW-CS:10-M3   Connector Type   ThyoFW-CS:10-M3   Connector Type   Conne	I
WINE TO WINE THYDEW-CS10-M3 Signal Nam	J
Name   Wilking	K
Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Type   Conn	r\
	L
BOSE AUDIO WITHOUT NAVIGATION   Connector Num   Fuse BLOCk (J/B)	M
NST2FW-CS   NST2	AV
Connector Name Connector Name Connector Type Connector Type Connector Type Connector Type Connector Name Connector Type Connec	
BOSE   Commentor	0
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24 BR[With audio steering switch and telephone] 25 W[With audio steering switch without telephone] 26 SB					
22 6 6 6 7 7 11 11 11 11 11 11 11 11 11 11 11 11	Connector No. M30 Connector Name STEFRING ANGLE SENSOR Connector Type TH09FW-NH	H.S. 1 2 3 4 5 6 7 8	Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   2   2   2   2   2   2   2   2   2	octor No	Terminal Color Signal Name [Specification]
Connector Name   WITHOUT NAVIGATION WITHOUT DVD ENTERTAINMENT SYSTEM		of O	6 SHELD	MZ3 WIRE TO TH16MW-	Signal Name [Specification]
AUDIO WITHOUT NAVIGATION No.   Mz0 Name   WIRE TO WIRE   Ype	Signal Name (Specification)				- -[With automatic drive positioner] -[Without automatic drive positioner]
BOSE AUDIO WITH Connector No. M20 Connector Name WIRE TO WIRE Connector Type TH40MW-CS15  MACHINE TH40MW-CS15  MACHINE TH40MW-CS15  MACHINE TH40MW-CS15  MACHINE TH40MW-CS15  MACHINE TH40MW-CS15	Terminal Color No. of Wire 1 V 2 G 2 G 3 W 4 B B 5 C C 5 C C 5 C C C C C C C C C C C	+++++	15 GR 16 L 17 Y Y 19 W W 20 SB 20 SB 24 P 25 V 26 W W 28 SB 27 SB 28 SB 28 SB 28 SB 29 SB 20 SB		+

JCNWM3189GB

M66 CENTER SPEAKER TK02FBR  Signal Name [Specification]  ROSTBR  FRONT SQUAWKER RH TK02FBR  From Signal Name [Specification]	A B
Commetter Name Commetter Type  Terminal Color No. Ormector Type	D
ion system)  yagation system)  n system)  n system)  n system)	Е
BATTERY(With navigation system]  SignAL VOC(Without mavigation system)  SignAL VOC(Without mavigation system)  SignAL VOC(Without mavigation system)  SIGNAL LOCK mavigation system)  SHELD (With navigation system)  SHELD (With navigation system)  SHELD (SIGNAL With navigation system)  HP(With navigation system)  HP(With navigation system)  HP(With navigation system)  HP(With navigation system)  SHELD (CAMERA MAGE SIGNAL With navigation system)  HP(With navigation system)  SHELD (CAMERA MIN navigation system)  SHELD (COMM CONT-DISS)  CAMERA (SIGNAL With navigation system)  SHELD (COMM CONT-DISS)  SHELD (COMM CONT-SIGNAL With navigation system)  SHELD (COMM CONT-SIGNAL WITH NAVIGATION SOLVAN)  SHELD (COMM CONT-SIGNAL WITH S	F
	G
1   1   2   1   1   2   1   1   2   1   1	Н
	I
Name   WIRE TO WIRE	J
Connector Name   Marie   Mar	K
Z	L
Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Type   TH40FW-NH	M
DIO WITHOUT  MAA  COMBINATION METER  COMBINATION METER  THADEW-NH  EAST Signal Name [5  Signal	AV
Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Type   No. 0f Wire	0
JCNWM3190GB	
	Р

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79 R ROOM ANT?-	2 ×	Y PASS	PC	>	77 P DRIVER DOOR ANT+	SB	NI.	BR	83 P KEYLESS ENTRY RECEIVER SIGNAL	ж	GR CON	BR	۵.	+	92 R NEI SLOT ILL	ACC	Y CVT SHIFT	0	98 L S/L CONDITION 2	^	Р.	Α	>	103 L KEYLESS ENTRY RECEIVER POWER SUPPLY	>	0	108 P COMBI SW INPUT 4	9 0	ے و	2																		
C	+	1	- TG	H		- 1	Connector No. M97	MIRE TO WIRE		Connector Type TH18FW-CS2			<u> </u>	018171818181919	17 16 16 1/ 10 10	0 0 0		⊢	of Wire		H	ψ	$\dashv$	1 80	+	B	+	£ 0	SHELD	T	BR	В	- 9 (			Connector No. M122	BOM (BODY CONTED) INCE		Connector Type TH40FB-NH				<u> </u>	91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72	110 109 109 107 109 109 109 103 105 101 100 88 88 87 8			
MENT SYSTEM	96	97	86	66			Conne	Conne		Conne		)			T			Terminal	No	1	2	5	9	80	6	10	= =	# 4	1 13	8	18	19	20						_	_	多							
N WITHOUT DVD ENTERTAINMENT SYSTEM	1	1	1	1	1	1	-	1	1	1	1	1	1				1	-	-	-	•	I	1	1		1	1	11 11	1 1	1	ı	1	-	-	-	-[With automatic drive positioner	-[With driver side power seat]	_	-[With front heated seat and passenger side power seat]	-[With front heated seat without passenger side power seat	I	I	I	I	I	1		
HOUT D	۵.	╁	L	7	5	SHIELD	W	$\dashv$	BR	$\dashv$	+	۵.	+	+	SPIELD	$\vdash$	┞	0	λ 1	7 9	ш	┪	SHIELD	$\dashv$	+	7	+	۵ ۵	+	. H	S	B	w	LG	٦ .	$\dashv$	GR GR	ж	>	_	*	$\dashv$	ŋ	В	g	G	BR	ł
N WIT	45	46	47	48	49	20	51	25	53	54	22	26	22	R S	8 8	9	62	63	64	99	67	89	69	2	7.1	72	73	1 22	7, 17	2 12	78	79	80	81	82	83	83	84	82	88	98	87	88	68	90	91	36	8
BOSE AUDIO WITHOUT NAVIGATION	Т	Connector Name WIRE TO WIRE	Connector Type TH80FW-CS19					# 0 = 1				Color Signal Name [Specification]		a	0 8			M	- 5	- THIEFTD	M	ı cc	- D					× ×		- 0			- 0	T	SB		γ –			M	BR -	Υ .	SHIELD -	9	Υ	- 0	- 0	

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-	
AUX IMAGE SIGNAL[Without DVD player]	E
100   24   106   107   106   107   106   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107   107	Ε
M129	E
	· ·
Termin   No.	ŀ
12	
	,
Connector   Conn	ŀ
VVIGATION	L
TON SWITCH  THOUT NAME (Specific CAN)  AND COMM (H)  SW COMM (H)	N
AUDIO WITH Name WIRE TO WIFE Type M 125  Rooter Roo	AV
Connector No.   Connector No.	JCNWM3192GB
	F

IDIO WITHOUT NAVIGATION M132 AV CONTROL IMIT WITH BIOSE SYSTEM WITHOUT	WITHOUT DVD ENTERTAINMENT SYSTEM	TEM  1 w  2 SHIELD	1 1	Terminal Color No. of Wire	Signal Name [Specification]	
	SHIELD	5 SHIELD	-	Ħ		П
Connector Type TH12FW-NH	SHIELD	T	1	+	iPod SOUND SIGNAL GND	
	21 L IPOG CONNECTION RECOGNITION	8 SHELD	1 1	r (	COMM (IPOG-NPOG ADAPTER)	Т
	£ &	+		+	iPod SQUIND SIGNAL RH (+)	Т
	. 57	ς,	1	. 6	iPod CONNECTION RECOGNITION	Τ
114 115 116 117 118 119		П	-	10 SHIELD	L	
108 109 110 111 112 113		15 B	-	12 W	CHARGE POWER	
	Connector No. M204	돐	1	S		7
L	Connector Name WIRE TO WIRE	+	1	+		Т
Signal Name [Specification]   Of Wire   Signal Name [Specification]	Connector Type TH12MW-NH	20 G	1 1	01	ACCESSORY IDENTIFY	7
^	4					ı
B SOUNI	医	- 1		Connector No.	M303	Т
110 P AMP. ON SIGNAL	#\$. 	Т		Connector Name	COMBINATION SWITCH (SPIRAL CABLE)	
SOUND SI	123456	Connector Name AUXILIA	AUXILIARY INPUT JACKS	Connector Type	TK08FGY	Т
ŋ	7 8 9 10 11 12	Connector Type A08FW		\ 4		1
114 LG SOUND SIGNAL REAR RH (-)	1	ą		IF		
м	ŀ	医		SI.		
118 R SOUND SIGNAL REAR LH (-)	Terminal Color Signal Name [Specification]	H.S.				
	t	-			20 19 18 17 16 15 14 13	
	2 R –	711	3 4 5 6 7 8			
Connector No. M148				- 1	-	Г
Connector Name iPod ADAPTER		Torminal		Terminal Color	Signal Name [Specification]	
Connector Type TH24FW-NH	φ		Signal Name [Specification]	t	,	ı
	П	<b>~</b>	SOUND SIGNAL RH (+)	14 -		П
THE	S	≥ (	SOUND SIGNAL GND	- 15	1	Т
	- BK	3 6 6	SOUND SIGNAL LH (+)[With DVD player]	- 1	1 1	Т
1 2 3 4 5 6 7 8 9 10 11 12	Ť	t	ALIX IMAGE SIGNAL	- 81		T
13 14 15 16 17 18 19 20 21 22 23 24	1 &	9	SHIELD[With DVD player] ALX IMAGE GND[Without DVD player]	19	1 1	П
		-				1
Ferminal   Color   Signal Name [Specification]	Т	Γ				
t	Connector Name WIRE TO WIRE	┰				
	Connector Type TH18MW-CS2	Connector Name iPod SIDE	)E			
		Connector Type IP16FGY				
4 L AV COMM (L)	Œ	1				
5 Y BATTERY		ほ				
×		ш	11			
9	3 4 5 6 7 8	1 2 3	4 5 6			
10 R COMM (iPod->iPod ADAPLER)	10 11 12 13 14 15 16 17 18	7 8 9	10 11 12 13 14 15 16			
<u>a</u>						
7	Terminal Color Simal Name [Specification]					
14 W iPod SOUND SIGNAL RH (-)						

JCNWM3193GB

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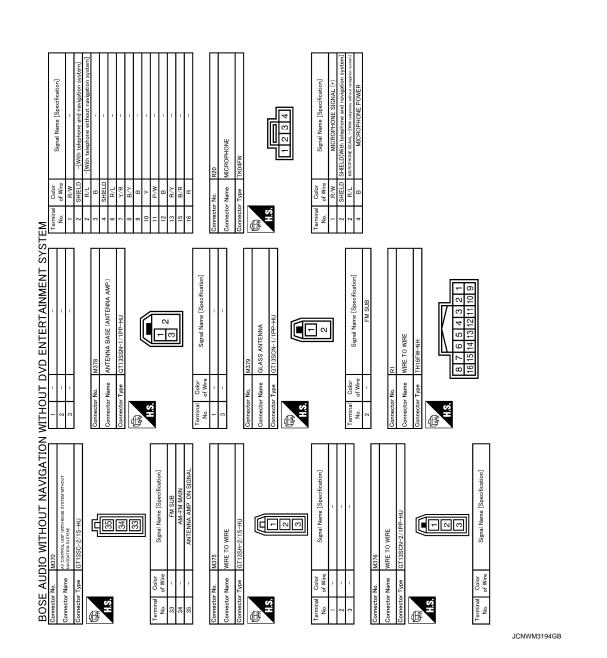
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0

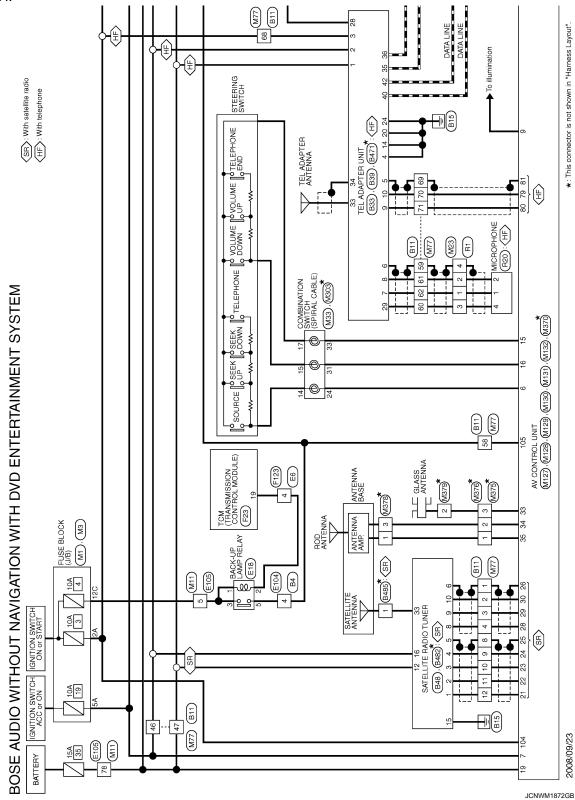
Р

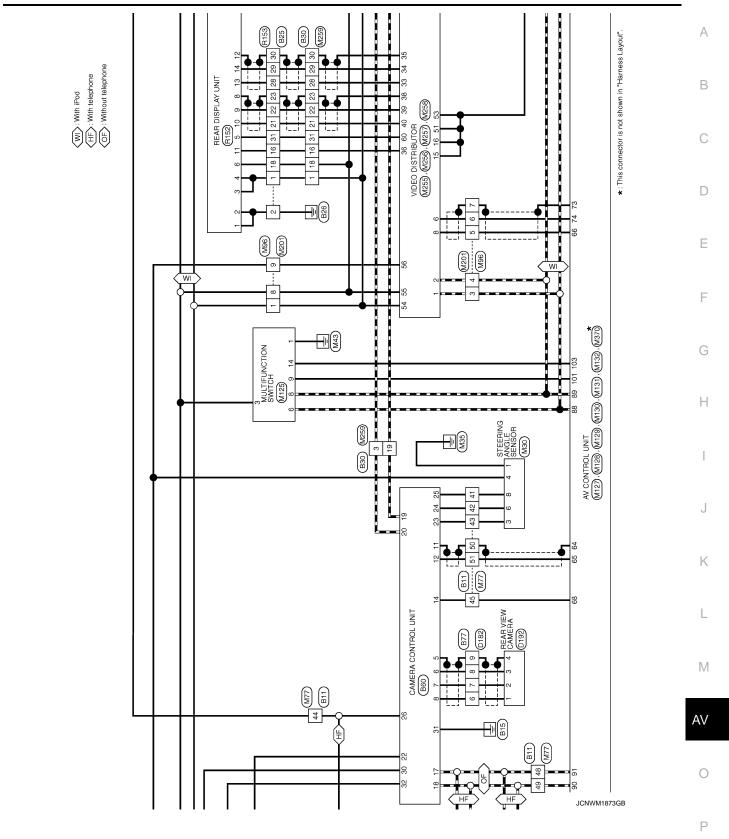


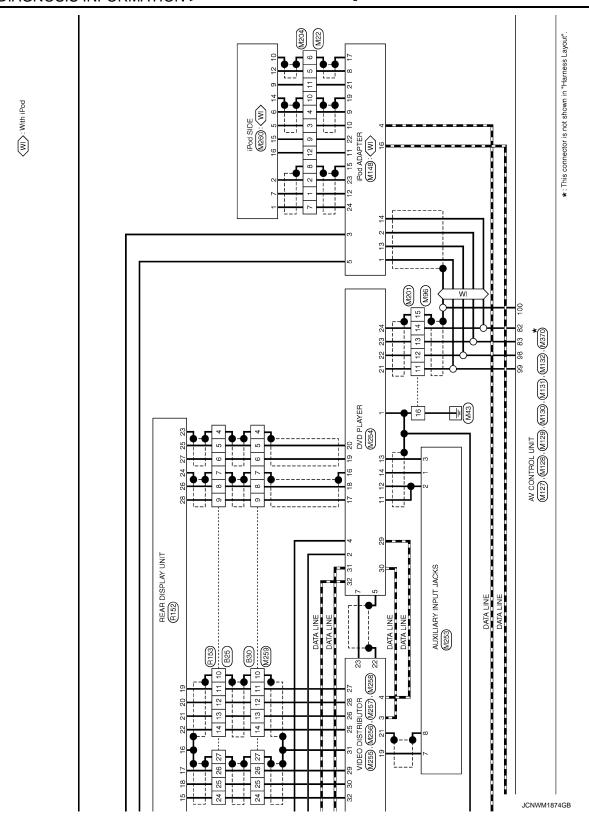
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAIN-MENT SYSTEM -

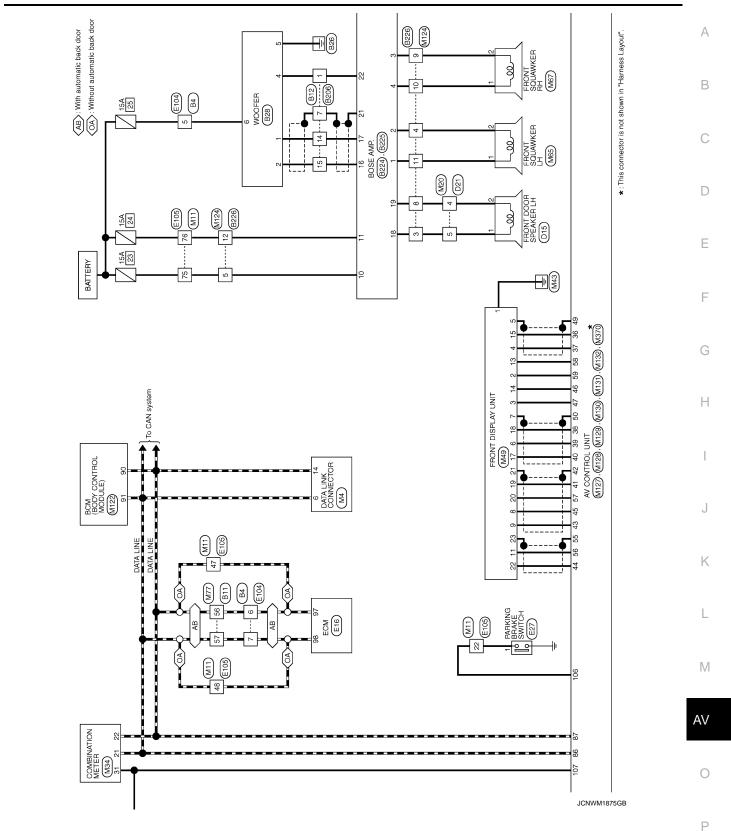
NOTE:

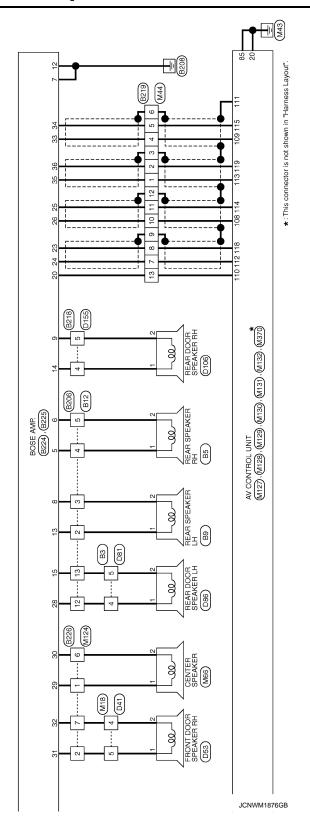
In this section, PRESET SWITCH and MULTIFUNCTION SWITCH are written as the MULTIFUNCTION SWITCH.











Domination of the formula of the for	DIO WITHOUT NAVIGATION WITH DV	1   1	109876 = 54321 1817 1615 14 13 12 11   Connector No. E5	Oolor Signal Name [Specification]				m 0		No. of Wire	+	- 7 LG - HR		Connector No. B9	Connector No. B4 Connector Name REAR SPEAKER LH	Connector Name WIRE TO WIRE	Connector Type NS(6MW-CS	i.S.	1 2 3	Terminal	No. of Wire	Golor   Signal Name [Specification]			<b>3</b> €		٠			
	A PI	r Name	10	Color of Wire	2 اــ	30	ΓG	<u>و</u> ه	9 5	۸	S G	ž a	: >-		r No.	r Name	r Type			-11		Color of Wire	SB	М	≥ 0	0	۵	٦	œ	'n

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Connector No.   Connector Type   Conne	BOSE	BOSE AUDIO WITHOUT NAVIGATION		I DVD	WITH DVD ENTERTAINMENT SYSTEM						
1   1   1   1   1   1   1   1   1   1	Connector	П	44	Н	-	96	GR	-	4	9	-
Signatura	Connector		42	+		97	~ !	_	2	W/R	
Signal Name   Specification   Specification	Connector	$\neg$	40	+		88	2 0	1 !	۰ ۵	N/L	
A		1	48	╁	╀	3	,		<u> </u> "	GR/V	
Simple   S	修		48	H	H				6	M/L	1
Signature   Connector Name   Wiret TO Wirete	Ž		49	H		Connect		312	10	Ĥ	
Signature   Sign			20	+		Connect		WIRE TO WIRE	= ;	$^{+}$	
Limited   Limi		8	ត	<u>" </u> "	î	ļ	T	CO III CO	2 5	5 .	1
Shift   Shif		F (	20	+		Collifec	1	VS10FW-US	2 5	t	1
Color   Signal Name [Spootfication]   Signal Name [Spootfication			2 2	+		<b>1</b>			4 4	PK/L	
Mainten   Signoial Name   Si			5 5	╀		手			2 2	+	
Fig. 10   Fig.			26	╁		2	_	8 8 1 1 1 1 3	212	۳	
Fig.		SHELD -	57	╀			<u>1</u>	ν ()	22	╁	
R-1,	T		28	╀			1	10 9	23	۳	
No.   Control   Control	6	R/L -	29	t			]		24	T	
SS   SS   SS   SS   SS   SS   SS   S	4	R/W	9	t					25	Ë	1
P         P         P         N         of Wind         Signal Name (Specification)           V         SHELD         1         N         1         N         N         1         N         1         N         N         1         N         N         1         N         N         1         N         N         1         N         N         1         N         N         1         N         N         1         N         N         N         1         N         N         1         N         N         N         1         N         N         1         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N	2	- as	19	┝		Termina	⊢	2	26	H	1
V V         C G G G G G G G G G G G G G G G G G G G	9	1	62	┝		O	_	Signal Name [Specification]	27	۳	-
Sheeling   Sheeling	7	^	63	┝		-	×	-	28	T	
BR71	T	SHELD	64	┞		2	SB	-	29	H	1
V/G         -         67         G         -         4         V         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Г	BB/L -	99	╀		3	GR	-	30	SHELD	-
W/L         C         LC         C           W/L         -         98         SHELD         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <td< td=""><td>H</td><td> J/A</td><td>67</td><td>╀</td><td></td><td>4</td><td>&gt;</td><td>-</td><td>3</td><td>T</td><td>1</td></td<>	H	J/A	67	╀		4	>	-	3	T	1
W/L         -         69         SHRLD         -         7         SHRLD         -           LL         -         WR         -         9         0         -         -           SB         -         7         Y         -         -         9         0         -           SB         -         -         11         BR         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	=		89	┞		2	re	-	<u> </u>		
Fig. 10   Fig.	12	- T/M	69	Н		7	SHIELD	1			
BR         -         71         B/R         -         9         G         G         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <td>13</td> <td></td> <td>70</td> <td>H</td> <td></td> <td>89</td> <td>0</td> <td>1</td> <td>Conne</td> <td>Connector No.</td> <td>B28</td>	13		70	H		89	0	1	Conne	Connector No.	B28
SB	14	BR –	71	Н		6	9	_	2	Omera Mamo	a Boow
Fig.	15	SB	72	Н	-	10	BR	_		con ivalle	WOOLEN
SB         -         74         SB         -         13         LG         -           R         -         76         G         -         -         14         W/R         -           P         -         77         SHELD         -         -         15         B/R         -           W         -         77         SHELD         -         -         15         B/R         -           Y         -         81         R         -         -         16         M/RE TO WIRE           Y         -         82         L         -         -         14/RE TO WIRE           V         -         81         R         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	16		73	Н		11	Д	-	Conne	Connector Type	RS06FGY-PR
National Part	17		74	+		12	P	1	Q		
National Part   Part	18	BS	75	4	İ	13	٥	1	厚		
Lange	19		9/	4	1	14	W/R	1	4	SH	Ę
LG   Connector No.   Connector No.   E25     Y   Connector Name   F   Connector Name   Connector	20		77	┪		12	B/R	1	•	3	0 4 E
W         -         79         W         -         Connector No.         B25           Y         -         81         R         -         -         Connector Name         WIFE TO WIFE           Y         -         82         L         -         Connector Name         WIFE TO WIFE           V         -         84         O         -         Connector Type         TH22MW-NH           W.1         -         86         SB         -         Connector Type         TH22MW-NH           N         -         87         R         -         Connector Type         TH22MW-NH           SBB         -         -         R         R         -         R           N         -         -         R         R         -         R           SBB         -         -         R         R         R         R           L/O         -         -         R         R         R         R           L/O         -         -         R         R         R         R           L/O         -         -         R         R         R         R         R           L/O	21	DT	78	7							
Y         −         80         W         −         Connector No.         B25           Y         −         81         R         −         −         Connector Name         IMEE TO WIRE           Y         −         83         BR         −         −         Connector Name         IMEE TO WIRE           W.L         −         84         0         −         −         Connector Type         IMEE TO WIRE           P         −         84         0         −         −         HAS         IMEE TO WIRE           SMELD         −         86         C         −         −         HAS         IMEE TO WIRE           SMELD         −         87         R         −         −         R         Imeged to Total Tot	22		79	4							
GR         -         81         R         -         Connector Name         WIRE TO WIRE           Y         -         83         BR         -         Connector Type         IH32MM-NH           W/L         -         86         C         -         R         R           P         -         86         C         -         R         R           SHELD         -         90         C         -         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R         R	23	_	8			Connect		325			)
Y         -         82         L         -         Connector Type         IHZRMY-NH           W/L         -         84         0         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - </td <td>24</td> <td>GR -</td> <td>8</td> <td>$\dashv$</td> <td></td> <td>Connect</td> <td></td> <td>MIRE TO WIRE</td> <td></td> <td>- 1</td> <td></td>	24	GR -	8	$\dashv$		Connect		MIRE TO WIRE		- 1	
W.Y.   Connector Type   Trigonmu-NH   W.Y.   W.Y.	25		85	_			П		Terminal	nal Color	Signal Name [Specification]
WVL	27	_	8	4		Connect	tor Type	TH32MW-NH	N	1	
P	28	- T/M	84	4		q				W/R	4
Secondary   Seco	30		82	$\dashv$		身			2	B/R	
SHELD	31	- 0	98			Ę			4	_	WOOFER AMP. ON SIGNAL
1   2   3   4   5   7   8   6   7   8   6   7   8   9   10   11   12   13   14   5   7   8   9   10   11   12   13   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   14   15   15	32	BR -	87	Н	1	4			5	B/W	GND
SHIELD		SB -	88	_			1 2 3	6 7 8 9 10 11 12 13 14 15	9	0	BAT
L/O		SHIELD -	88	Н			17 18 19	22 23 24 25 26 27 28 29 30			
LG	36	L/0	90	_	1						
Y         -         92         BR         -         Terminal Color           0         -         93         G         -         No.         of Wre           SB         -         94         V         -         1         SB           G         -         95         BR         -         2         B	37	LG –	91	Н							
O	40		95	$\dashv$		Termina	_	Signal Name [Specification]			
SB - 94 V - 1	14	0	93	$\dashv$		N	of Wire	Cignian realing Lopezon	_		
G - 95 BR - 2	42	- SB	94	Н		-	SB	-	_		
	43	0	92	$\dashv$	-	2	В	1	_		

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1.1 1.2 1.3 1.13 1.13	L COLSEI)	loop loop loop loop loop loop loop loop	A
AV COMM (H) REVERSE SENSOR SIGNAL 1 SENSOR SIGNAL 2 SENSOR SIGNAL 2 SENSOR SIGNAL 3 SENSOR SIGNAL 3	ACC ACC GND BATTERY	WIRE    8   9   10   11   12     8   9   10   11   12     9   9   10   11   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1   12     1   1     1   1   1     1   1   1	В
o 8 o 6		Connector No.   877	С
20 22 23 24 24 25	30 31 32 32	Connector Na   Connector Na   Connector Na   Connector Type   Connector	D
	12 14 16 11 13 15	ceffication]  LLH (-)  L HH (-)  L HH (-)  L HH (-)  D	Е
B48 SATELLITE RADIO TUNER A16FW	5 7 8 9 10	Signal Name (Specification)	F
Connector No. B48 Connector Name SATEL Connector Type A16FW	HS. 1246	Name	G
		Terminal  No. 1  1  2  3  3  4  4  5  6  8  9  10  112  115  116  Commecto Commecto Commecto Commecto 11  11  11  12  11  11  12  11  11  11	Н
WITH DVD ENTERTAINMENT SYSTEM Connector Name IEL ADAPTER UNIT Connector Type ITH08FW-NH	0 4 1 1 4 2 1 4 2 1 4 2 1 4 1	Signal Name [Specification]  AV COMM (H)  AV COMM (L)  BATTERY  AVC  GAUTON  GAID  SHIELD  SHIEL	I
ENTERTAIN B33 TEL ADAPTER UNIT THOSFW-NH	35 37 39 41 36 38 40 42		J
VITH DVD ENT	H.S.	Connector Name   Color	К
_			L
BOSE AUDIO WITHOUT NAVIGATION Connector No. 830 Connector Name WRE TO WIRE Connector Type TH32FW-NH	0 9 8 7 6 5 4 3 2 6 25 24 23 22 21 20 19 18	Signal Name (Specification)	M
DIO WITH B30 WIRE TO WIRE TH32FW-NH	4 13 12 11 1		AV
BOSE AUC Connector No. Connector Name	H.S. 16 15 14 13 32 31 30 29 2	Terminal   Color	0
			JCNWM3197GB Р

Revision: 2009 September AV-227 2010 Murano

BOS	E AUD	BOSE AUDIO WITHOUT NAVIGATION	WITH DVD	/D ENTERTAINMENT SYSTEM					
Connector No.	or No.	B206	12	G - Connector No. B224		23	M/L	SOUND SIGNAL REAR LH (-)	
400000	Name Name	DOWN OF BOWN	13	V V	ą	24	GR/V	SOUND SIGNAL REAR LH (+)	
		אוויב ו פ אוויב	14			25	M/L	SOUND SIGNAL REAR RH (-)	
Connect	Connector Type	NS16MW-CS	12	SB Connector Type SGA12FBR-SJA2	3R-SJA2	26	GR/V	SOUND SIGNAL REAR RH (+)	
ď			17	-		28	G S	SOUND SIGNAL REAR DOOR SPEAKER LH (+)	
唐			18	GR B		29	>	SOUND SIGNAL CENTER SPEAKER (+)	
) II	U					30	а	SOUND SIGNAL CENTER SPEAKER (-)	
	_	1 2 3 4 5 6 7		1 1 1 2	12 1	31	BR	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)	
	Ι°	0 0 10 11 10 10 14 15 16	Connector No.	B219		32	Y S(	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)	
	<u>의</u>	9 10 11 12 13 14 13	Connector Mame	9 8 7	6 5 4 3 2 1	33	W/R	SOUND SIGNAL FRONT RH (+)	
			50			34	B/R	SOUND SIGNAL FRONT RH (-)	
			Connector Type	ype TH32MW-NH		35	W/R	SOUND SIGNAL FRONT LH (+)	
Terminal		Simal Name [Specification]	Į (	nal Color	Signal Name [Specification]	36	B/R	SOUND SIGNAL FRONT LH (-)	
No.	of Wire	financia con a constantina del	厚	No. of Wire					
-	Α	-	Į.	1 LG SOUND:	SOUND SIGNAL FRONT SQUAWKER LH (+)				
2	GR	1	4	2 V SOUND	SOUND SIGNAL FRONT SQUAWKER LH (-)	Connector No.		B226	
8	BB	1		2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 3 L SOUND	SOUND SIGNAL FRONT SOUAWKER BH (-)		Γ		
4	>	1		۵	SOLIND SIGNAL FRONT SOLIAWKER BH (+)	Connector Name		WIRE TO WIRE	
- .	. [2				COURT OF ALL DEAD OF ALL DE		Т	00 00000	
n	ž	1		<u>-</u>	D SIGNAL REAR SPEAKER RH (+)	Connector Type	٦	NS12MBR-CS	
7	SHIELD	1		6 BR SOUNE	SOUND SIGNAL REAR SPEAKER RH (-)	þ			
80	ш	1	Terminal	Color 7 B	GND				
σ	Α		Š	L	SOLIND SIGNAL REAR SPEAKER LH (-)	Į			
ç	: >		,-		C THE CHARLES COOL CAND INVOIS CIVILORS	2		,	
2   ;	. ا		-   -		DATTED		_	1 Z 3 4 D	
= :	1		اٍ		DALIERT			6 7 8 9 10 11 12	
12	5	1	က	=	BATTERY		븨		
13	œ	_	4	_	GND				
14	W/R	1	2	B/R - 13 GR SOUND	SOUND SIGNAL REAR SPEAKER LH (+)				
15	B/R	1	9	SHIELD - 14 L SOUND S	SOUND SIGNAL REAR DOOR SPEAKER RH (+)	Terminal	Color	9	
			7	- dB/V		No.	of Wire	olgnal Ivame [opecification]	
				- //M		-	>	1	
Connector No	l	0010	0	Book No Doorsell Door			. 0	1	
Dallie Co	ı	0710	n ;	COILIECTOI NO.		7	ř :		
Connect	Connector Name	WIRE TO WIRE	2 ;		AP.	,,	× ;	1	
	T					4	>	1	
Connector Type	╗	TK10FW-NS8	12	SHIELD - Connector lype   SCA19FBR-SGA4	3R-SGA4	so.	SB	1	
ģ			13	_		9	Д		
多			12	SS - SS		7	>	1	
ŧ			16			8	В	1	
į	40	878 513 13 13 13	17	R R	20 33130 28	6	7	1	
	2		18		0, 0, 00	10	۵	1	
	18 1/	17 16 15 14 13 12 11	20	27 20 25 24 25 27	3/22/21/20/19/18/17/16 15	=		1	
			3 8			:	3 8		
			8			7	5		
	L		20						
Terminal		Signal Name [Specification]	32	ral Color	Signal Name [Specification]				
No.	of Wire			No. of Wire					
-	Μ	•		15 R SOUND S	SOUND SIGNAL REAR DOOR SPEAKER LH (-)				
4	٦	-[With BOSE system]		16 B/R S	SOUND SIGNAL WOOFER (+)				
4	0	-[Without BOSE system]		17 W/R S	SOUND SIGNAL WOOFER (-)				
2	0	-[With BOSE system]		S W SOUND SI	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)				
ır	a/a	-[Without BOSE evetern]		ď	SOLIND SIGNAL FRONT DOOR SPEAKER I H (=)				
,				9	AMP ON SIGNAL				
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0 :	20 :			SHIELD	SHIELD				
=	>	1		22 W \	WOOFER AMP. ON SIGNAL				

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### **FRONT DISPLAY UNIT**

ion]	А
DES3 REOUT DOOR SPEAKER RH (WITH BOSE SYSTEM) Signal Name [Specification]  Signal Name [Specification]	В
	С
Color   Colo	D
automatic drive positioner]	Е
W   C   C   C   C   C   C   C   C   C	F
S   S   S   S   S   S   S   S   S   S	G
	Н
Connector Name   Frowtr Door Stever Li (with BOSE SYSTEM)	I
VD ENTERTAINMENT SY;	J
Connector Name   Connector Type   Connector Name   Conn	K
Z	L
Donnector Name  Somector Name  Terminal  Color  No.  Say  ShiffLD  Signal Name [Specification]  Somector Name  ShiffLD  Signal Name [Specification]  Somector Name  ShiffLD  Somector Name  ShiffLD  Signal Name [Specification]  Somector Name  ShiffLD  Somector Name  ShiffLD  Somector Name  ShiffLD  Signal Name [Specification]  Somector Name  ShiffLD  Somector Name  ShiffLD  Signal Name [Specification]  Somector Name  ShiffLD  S	M
Signal Name [Spe Signal	AV
Connector Name   0	
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Connector No.   Connector Name   Connector Name   Connector Type   Connector Type   Connector Type   Color No.   Color No.	
	Terminal No. No. 10. 11. 11. 11. 11. 11. 11. 11. 11. 11

JCNWM3200GB

### **FRONT DISPLAY UNIT**

	А
	В
> d   B  B  C   D   B  B  C   D   B  B  C   D   B  B  C   D   B  B  C   D   C   D   B  C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D   C   D	С
20 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	D
See cification]	Е
MW-CSIO-M3  Signal Name (S)	F
	G
	Н
Connector Name   BACK-UP LAMP RELAY   Connector Name   BACK-UP LAMP RELAY   Connector Type   MS702FL-M2-LC   E   MS702FL-M2-	I
EINTERTAINMEN  EIS  BACK-UP LAMP RELAY  MSDZFIL-MZ-LC  Signal Name [Speces  EDA  TO WIPE  NS16FW-CS  To 6 5 4 1 3 12 11 10 16 15 14 13 12 11 11 10  To 6 15 14 11 12 11 11 10  To 6 15 14 11 12 11 11 10  To 7 15 15 14 11 12 11 11 10  To 7 15 15 14 11 11 12 11 11 10  To 7 15 15 14 11 11 12 11 11 10  To 7 15 15 14 11 11 11 11 11 11 11 11 11 11 11 11	J
Connector Name   BACK	K
	L
Connector Name   ECM   Connector Name   ECM   Connector Name   ECM   Connector Type   RH24FB-Ft26-L-LH   Connector Type   RH26FB-Ft26-L-LH   Connector Type   Connecto	M
AUDIO W   Name   ECM	AV
Connector Name   Conn	0
JCNWM3201GB	Р

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Connector No. M3 Connector Name FUSE BLOCK (J/B) Connector Yave NSIZEW-CS		Terminal Color Signal Name [Specification]	6C BR -	200	GR	Н	Ц	12C 0 -		ZM ZZPZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	Т	Connector Name DATA LINK CONNECTOR	Connector Type BD16FW		· · · · · · · · · · · · · · · · · · ·			103/15/8	11001-10		Terminal Color Simple Name (Sameles Him)	No. of Wire Signal Name Lapecincation	+	5 B –	-	+	+		16 Y =					
BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAINMENT SYSTEM           Connector No.         F23         F123           Connector Name         TIX (TRANSMISSION CONTROL MODILE)         Connector Type         MIRE TO WIRE           Connector Type         RH40FB-RZ8-L-RH         Connector Type         TIX (HFC)-LV		Color Signal Name [Specification]	- 1 1	1/0 8/9	1	L/R -	- L	Y/B -	BR/W -	- I	25 a	1			or No. M1	or Name FUSE BLOCK (J/B)	T	or Type NS06FW-M2			3A2A1A	O A 74 64 54 44	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Ļ		of Wire	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				oc 3	M 51	X
WITH DVD Connector No. Connector Name Connector Type	HS.	Terminal No.	- 0	9	. 2	9	8	10	= :	15	2 5	12			Connector No.	Connector Name		Connector Type	<b>€</b>	事	Ź.					Terminal	O	4 :	ZA	3A	4	2A	۲ A	8A
DIO WITHOUT NAVIGATION F23 TOM (TRANSMISSION CONTROL MODULE) RH40FB-RZ8-L-RH	22 33 34 35 66 37 38 39 40 47 48  22 23 34 15 16 17 18 19 20 44 42  2 3 4 5 6 7 18 8 9 10 41 42	Signal Name [Specification]	INH SW 2		INH SW 3 MON	GND			ō	DA	ATE TEMD SENSOD				S		SENSOR P		S/W-C			CAN-H			_	_	9	PL LINEAR SOL	GND	VIGN	BATT	VIGN		
BOSE AU Connector No.		al Color of Wire	P/B	9/2	g B	В	Μ	δ/Ω	L/R	BR/R	A >	. %	W/A	G/B	R/B	W/R	9	R/G	۵ ک	9 8	۵	٦	PC	LG/R	Α//	L/W	W/B	Σ,	2	>	¥ :	>		
BOSE A Connector No. Connector Nar Connector Typ	H.S.	Terminal No.		4 65	4	2	7	ω	ъ :	₽ ;	= =	5 4	15	19	20	25	56	27	58	30	31	32	33	34	37	88	38	40	45	46	4	48		

JCNWM3202GB

### **FRONT DISPLAY UNIT**

## [BOSE AUDIO WITHOUT NAVIGATION]

#### < ECU DIAGNOSIS INFORMATION >

Control West   Cont	Note   Control of the control of t	Wide TO White   Signal Manne   Sig	0	Connector No.	M11	67	2 ~	BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAINMENT SYSTEM  Connector No.   Mit	32	>	1	45 P		1	
1	10   10   10   10   10   10   10   10	Throw-Cato-Add   10   10   10   10   10   10   10	O	nnector Name	WIRE TO WIRE	89	W	1	33	۵ ;	1	H		1	
1   1   1   1   1   1   1   1   1   1	1	1   1   1   1   1   1   1   1   1   1	C	opportor Type	THZ0EW-CS10-M3	69	a 0	1 1	34	SB a	1 1	+		1 1	
Control of the Cont	Control by State   Control by	Connector   Conn	<u>"</u> [			2 5	9 0	1	3			+	ļ	anoitiona avido oitemoti	-
1   1   1   1   1   1   1   1   1   1	Comment with the control of the co	17   17   17   17   17   17   17   17	72	<b>√</b>		62	, a	1				╁	ļ	automatic drive position	ةٍ ا
Control bases   October	1	1	_	Š.		73	٦	t	Connecto		20	┝		utomatic drive positione	~
1   1   1   1   1   1   1   1   1   1	Control for the control for	1	4	ė		74	М	1			TOWN OF JO		_	automatic drive positior	ler]
Company   Comp	Company   Comp	1   1   2   3   4   4   4   4   4   4   4   4   4				75	BR	1	2000		ine 10 wine		H	utomatic drive positione	Ź.
Column   C	Comparison   Com	1				76	œ	1	Connecto	Г	H40MW-CS15	H	H	automatic drive positior	jer]
1	1	Color   Signal Name (Specification)   73   7   7   7   7   7   7   7   7			z	77	5	1	ַו			-	H	utomatic drive positione	Ę
Colored Square No.   Square N	Control Name   Cont	Connector Name   Signat Name   Specification   Signat Name   Specification   Signat Name   Specification   Specification   Signat Name   Specification   Spe				78	>	1	13			H	H	automatic drive positior	ē
1	Control   Cont	1	ᆫ		Simol Massa [Sanajfantjan]	79	9	ı	¥.	Ć.					
1	1	Connector Name   Signal Name   Specification   Connector Name   Connecto			Orginal Marine [Openingation]	80	æ	-			4 5 6 7 8 9 10 11 12 13 14 15				
Company No.	Contractive of the contractive	Convertor No.   No.   Convertor No.   Conver		2 L	-	81	W			1617181920	21 22 23 24 25 26   36 37 38 39 40 41 42 43 44 45 46	Connector No.	M22		
Control   Cont	Commence Type   Commence Typ	Convector No.   Convector No.   MIS   Color	Ш		-	82	W	-		27282930	31 32 33 34 35   47 48 49 50 51 52 53 54 55	Notes of the second			
Contract No.   Cont	Control of the cont	Commerciar No.   M18   M18   M18   M18   M19		H	1	83	0	ı				Connector Nan			
Comment No.   Wilet Co.   Wi	Consideration to   Consideration to   Miles   Consideration to   Con	F   Commerce No.   MIS   Com	1	F	1							Connector Typ			
Contraction	1	P	1	<u> </u>	1				Terminal	Color	6				
Contract Team   Contract Tea	Control Name   Cont	V   Connector Type   Tri40AM-CSIS   Connector Type   Tri40AM	_	H	1	Connecto	ı	M18	Š	of Wire	Signal Name [Specification]	C C C C C C C C C C C C C C C C C C C			
1	1	V   Commence Type   Third May   CSI   CS   CS   CS   CS   CS   CS   C	L	L	1	1	Momo	MARKET TO WARE	-	>	-	Ě		7	
V   V   V   V   V   V   V   V   V   V	1	Y   Y	ш	12 L	1	00	Name	WINE 10 MINE	2	9	-	E S	Г	t	
No.	Column   C	Y   Y   Y   Y   Y   Y   Y   Y   Y   Y	_	L	1	Connecto	or Type	TH40MW-CS15	က	М	1		2	က	
No.   Color	No.   Color    Fig. 10   Fig.	Ш	14 Y	-	4			4	В	-		11	6		
No.   Control	No.    Fig.			1	B			2	٦	-		11	]		
Column   C	Column   C	Fig. 1   F		Н	1	<u> </u>	ш,		9	^	-				
Color   Colo	Column   C	C	ட	L	1	è		8 4 5 6 7 8 9 10 11 12 13 14 15	7	BR	1		L	9 9	
V   V   V   V   V   V   V   V   V   V	1	P   P   P   P   P   P   P   P   P   P	ட	L	1		16171819	20[21]22[23[24]25[26] [36]37[38[39]40[41]42[43]44[45]48	8	0	1			I warne Lopecincation	
1	1	Y   Y   Color   Colo	ட	_	1		272829	30(31) 32(33) 34(35) 47(48) 49(50) 51(52(53) 54(55)	6	SB	1	-	/	1	
1   1   1   1   1   1   1   1   1   1	1	1   1   0   0   0   0   0   0   0   0	<u> </u>	24 Y	1				10	٦	1	2	~	1	
1	No.    1	1_	7 T	1				Ξ	ŋ	1		~	1		
10   10   10   10   10   10   10   10	1	No. of Wive Signal Name Lapschication   15 GR   16 GR   17   17   17   17   17   17   17   1	1_	H	1	Terminal		3	14	В	1		(7)	1	
Fig. 1   Fig. 2   Fig. 3   Fig. 2   Fig. 3   F	1	1   0   0   0   0   0   0   0   0   0	ட	H	1	No.		Signal Ivame [Specification]	15	GR	1	Г	_	1	
1	1	1	1	┝	-	-		1	16	_	1	T	ELD	1	
10	10   10   10   10   10   10   10   10	R   R   R   R   R   R   R   R   R   R	L	╁	1		, >	1	17	1 >	1	Τ		1	
N   N   N   N   N   N   N   N   N   N	1	P   P   P   P   P   P   P   P   P   P	_	╀	1	4	Μ		18	*	1	Т	0 13	1	
Column   C	Column   C	1	L	+		r u	- 0	Date DOSE	2 5	: >		T			
No. 10   N	C	V		+		0 4	2 6	[With DOOL system]	6	- 5		Т	4 1		
10   10   10   10   10   10   10   10	B C C D E F G A A A B B C C A A B B C C A A B B B C C A A B B C C A A B B B C C A A B B B C C A A B B B C C A A B B B C C A A A B B B C C A A B B B C C A A B B B B	No.	+		0	ב מ	_[without book system]	07	8 4		T	ברה	1		
1	B C C D E F C C C C C C C C C C C C C C C C C C	16   W	_1	+	1	١	¥5 .		54	1	1	+			ı
15	H  I  J  K  A  A  A  B  B  B  C  A  A  A  B  B  B  C  A  A  A  A  A  B  B  B  C  A  A  A  A  B  B  B  C  A  A  A  B  B  B  C  A  A  A  B  B  B  C  A  A  A  B  B  B  C  A  A  A  B  B  B  C  A  A  B  B  B  C  A  A  B  B  B  C  A  A  B  B  B  C  A  A  B  B  B  C  A  A  B  B  B  C  A  A  B  B  B  C  A  A  B  B  B  B  C  A  A  B  B  B  B  B  C  A  A  B  B  B  B  B  A  A  A  A  B  B	LG	_1	+	1	7	g	ı	22	>	1	┨	~		١
1   1   1   1   1   1   1   1   1   1	B C C C C C C C C C C C C C C C C C C C	Y		$\dashv$	-	80	В	1	26	*	ı				
17   7	B C C D E E E E E E E E E E E E E E E E E	SB     -     18     W     -     31     SB       P     -     19     R     -     31     SB       SB     -     -     32     W       V     -     -     24     LG       SHELD     -     -     44     Y		4	-	16	Α	1	59	œ	1				
19	B G C C C C C C C C C C C C C C C C C C	SB			ı	17	>	1	30	_	1				
SB	B C C C C C C C C C C C C C C C C C C C	Sign			1	18	Μ	1	31	SB	1				
SS   P	B C C D D E E C C C C C C C C C C C C C C	SB	1_	H	ı	19	~	ſ	32	*	1				
No.	B C C D D E S S S S S S S S S S S S S S S S S	No.    L	ŀ		ç	g.		33	۵						
SHELD	B C C C C C C C C C C C C C C C C C C C	C   C   C   C   C   C   C   C   C   C	1	+		3 3	3 5		3	- {					
SHELD	B C C C C C C C C C C C C C C C C C C C	C   C   C   C   C   C   C   C   C   C	1	+		47	5 :		40	200					
No.	B C C C C C C C C C C C C C C C C C C C	N		+	ı	52	>	1	32	œ	I				
SHELD - 20 0 - 42 LG - 44 V W	B C C C C C C C C C C C C C C C C C C C	SHELD		_	1	56	Ь	1	41	re	_				
SHELD	B C C D E F T T T T T T T T T T T T T T T T T T	W - 31 V - 44 H	ш	Т	1	29	0	1	42	57	1				
N	N	31 V 44	ட	Г	1	30	ŋ	1	43	0	1				
	B C C D K  I I AV		L	T		31	>	1	44	<b>&gt;</b>	1				
A	B C C D D E E C C C C C C C C C C C C C C		ı	1		;									
A	C D D E E E E E E E E E E E E E E E E E														
A	B C C D D E E C C C C C C C C C C C C C C														
A	B C C D D E E C C C C C C C C C C C C C C														
A	B C C D D E E E E E E E E E E E E E E E E														
A	B C C D D E E E E E E E E E E E E E E E E														
A	B C C D D E E E E E E E E E E E E E E E E														
A	B C C D D E E E E E E E E E E E E E E E E														
A	B C C D D E E F G AV														
A	B C C D E F G AV														
A	B C C D E F G AV														
A	B C C D E F G G H I I AV														
A	B C D E F G H I J AV			•											
A	B B C C D D E F G G H I I M AV														
	B C D E F G H I J	A		(						(			(		-

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BOSE AUDIO WITHOUT NAVIGATION	>						
Connector No. M23	Connector No. M33	14	GR	ILLUMINATION CONTROL SWITCH (-)	29	ΓC	1
Connector Name WIRE TO WIRE	Connector Name COMBINATION SWITCH (SPIRAL CABLE)	15	H -	AIR BAG AMRIENT SENSOR	31	0 >	1 1
Connector Type TH16MW-NH	Connector Type TK08FGY=1V	19	, a	AMBIENT SENSOR POWER	33	- >	1
1	1	50	. >-	AMBIENT SENSOR GROUND			
		21	7	CAN-H			
		22	Δ.	CAN-L	Connector No.	Ш	M49
	20 10 10	23	В	GROUND	Connector Name		FRONT DISPLAY LINIT
2 3 4 5 6	07 07 67	24	*	FUEL LEVEL SENSOR GROUND		Т	
9 10 11 12 13 14 15 16	31 32 33 34	25	BR	CHG	Connector Type		TH24FW-NH
		26	5	PARKING BRAKE SWITCH	q.		
L	ŀ	27	>	BRAKE FLUID LEVEL SWITCH	季		
<u>a</u>	Jaj	59	œ	WASHER LEVEL SWITCH	Ę		
re	ot Wire	30	۵.	VEHICLE SPEED (2-PULSE)		10 11	10087887
4	BB	31	>	VEHICLE SPEED (8-PULSE)		- 2	7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
a	+	32	5 6	OD OFF/SPORIS		24 23	22 21 20 13 18 17 19 13 14 13
2 R -[With telephone without navigation system]	- C2	34	5 6	FUEL LEVEL SENSOR			
	3 0	8 8	T	SEAT DELT BUOKIT SMITCH (PASSENGED SIDE)	Termeline	1	
t	+	90	1	AT BELL BUCKLE SWITCH (PASSENGER SIDE)	No	of Wire	Signal Name [Specification]
+	- 8					2	dig
- >	g -		I		- 0	,	CNID
+	7	Connector No.	No. M44	4	Z	_	BAI I EKY[With navigation system]
m >	33 SB -[With audio steering switch without telephone]	Connector Name		WIRE TO WIRE	7	>	INVERTER VCC[Without navigation system]
+	1 20		T		,	٠,	Accumin navigation systems
		Connector Type	٦	IH3ZFW-NH	n	0	SIGNAL VCC[Without navigation system]
+	ſ	q.			4	3	SHIELD[With navigation system]
+	Connector No. M34	手			4	1	COMPOSITE IMAGE GND[Without navigation system]
-	Connector Name COMBINATION METER	S ::			2	В	AUX IMAGE GND[With navigation system]
16 R	Т		40 45 44 47	0 0 2 0 2 0	5	SHIELD	SHIELD[Without navigation system]
	Connector Type TH40FW-NH			20 07 06 06 04 05 04 06 16	9	~	RGB (G:GREEN) SIGNAL[With navigation system]
ſ	<b>a</b>		8	28 27 20 25 24 23 22 21 20	9	_	RGB (G:GREEN) SIGNAL[Without navigation system]
Connector No. M30	ALT.				7	SHIELD	SHIELD
Connector Name STEERING ANGLE SENSOR	S		-		20		HP[With navigation system]
┪		Terminal	Color	Signal Name [Specification]	80	g	HP[Without navigation system]
Connector Type TH08FW-NH	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	No.	of Wire		6	*	RGB AREA (YS) SIGNAL
ą.	21 22 22 23 24 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	-	ŋ	1	=	œ	COMM (CONT->DISP)
等		2	œ	1	12	*	CAMERA IMAGE SIGNAL
K	Į.	8	SHIELD	1	13	В	GND[With navigation system]
ָ ֡ ֡ ֡	lal	4	В	I	13	BR	INVERTER GND[Without navigation system]
4 8 3	No. of Wire	2	>	ī	14	SHELD	SHIELD[With navigation system]
5 6 7 8	1 Y BAT	9	SHIELD	1	14	re	SIGNAL GND[Without navigation system]
	2 O IGN	7	٦	-	15	Υ	AUX IMAGE SIGNAL[With navigation system]
	3 B GROUND	8	œ	1	15	Г	COMPOSITE IMAGE SIGNAL[Without navigation system]
Terminal Color	4 B GROUND	6	SHIELD	1	17	5	RGB (R:RED) SIGNAL
of Wire	5 SB ILLUMINATION CONTROL	01	>	1	18	>	RGB (B:BLUE) SIGNAL[With navigation system]
-	8 SB TRIP RESET SWITCH	=	2	1	18	>	RGB (B:BLUE) SIGNAL[Without navigation system]
2 P –		12	SHIELD	1	19	a	RGB SYNC
	METE	t	۵	1	20	~	dλ
- C	, ] _	12	. 57		21	SHIELD	SHIELD
L	~	16	_	1	22	G	COMM (DISP->CONT)
H	>	1	œ		23	SHELD	SHIELD
- 0 8	H	18	M	1			

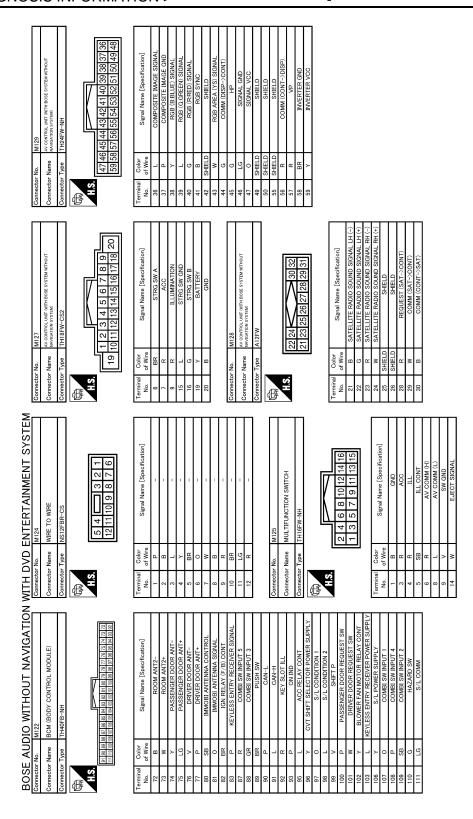
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### **FRONT DISPLAY UNIT**

[BOSE AUDIO WITHOUT NAVIGATION]

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Name (Specific	В
16 15 16 16 16 16 16 16 16 16 16 16 16 16 16	С
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ve positioner]  power seat]  server seat]  server seat]	Е
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MY7 THROPY CS19 Sgna1 / A Strain S Sgna1 / A Strain S S S S S S S S S S S S S S S S S S S	J
DVD EN	K
ACTION TO THE PROPERTY OF THE	L
BOSE AUDIO WITHOUT NAVIGATION Connector No. M65  Connector Type TROYFBR  1 LG -With BOSE system] 1 LG -With BOSE system] 2 Y -With BOSE system] 2 Y -With BOSE system] 2 W -Without BOSE system] 3 W -Without BOSE system] 4 Without BOSE system] 4 Without BOSE system] 5 W -Without BOSE system] 6 Without BOSE system] 7 Without BOSE system] 8 Without BOSE system] 9 Without BOSE system] 1 WITHOUT BOSE System] 1 WITHOUT BOSE System] 1 WITHOUT BOSE System] 1 WITHOUT BOSE SYSTEM 2 WITHOUT BOSE SYSTEM 2 WITHOUT BOSE SYSTEM 2 WITHOUT BOSE SYSTEM 2 WITHOUT BOSE SYSTEM 3 WITHOUT BOSE SYSTEM 3 WITHOUT BOSE SYSTEM 4 WITHOUT BOSE WITHOUT BOSE SYSTEM 4 WITHO	M
IO WITHOUT  Me5  FRONT SOUAWKER LH  TWOZFBR  -[With BOS] -[With BO	AV
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4 G	10 R G C C C C C C C C C C C C C C C C C C	(v) [\$  \$  \$  [\$	Terminal Color   No. of Wire   Signal Name [Specification]	<del>                                      </del>	
Connector No. M148 Connector Name IPod ADAPTER Connector Type ITH24FW-NH	1 2 3 4 5 6 7 8 9 1011112 13 14 15 16 17 18 19 20 21 22 23 24	Terminal   Color	SHIELD SH		
	99   BR   Prod SOUND SIGNAL, LT (*) (Without DVD player]     100   SHELD   SHELD (Without DVD player]     101   V   SWING (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)	SB   PAH     G   VEHICLE     V   VEHICLE     Tor No.   M132     tor No.   M132     tor Name   Averaging sistage     tor Type   TH12FW-NH	Terminal   Color   Signal Name [Specification]   Color   Signal Name [Specification]   Color   Signal Name [Specification]   Color   Signal Name [Specification]   Color   C	ω ω ε [2 σ	
BOSE AUDIO WITHOUT NAVIGATION  Cornector No. M130  Cornector Name Avcourso_curren  Cornector Type ITHIGFW-NH	[15] [57] 66 [65] 64 [63] 62 [61] 60 [75] 74 [73] 72 [71] 70 [69] 68	Terminal   Color   Signal Name [Specification]	Connector No.   M131	0 M M M M M M M M M M M M M M M M M M M	CNWM

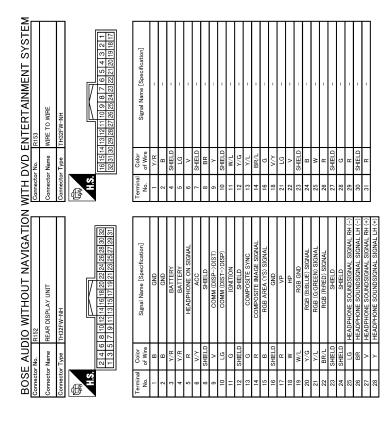
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BOSE AUDIO	BOSE AUDIO WITHOUT NAVIGATION	WITH DVD ENTERTAINMENT SYSTEM	Connector No.	M257	16	В	GND
Connector Name AUXILI	AUXILIARY INPUT JACKS	22 G SOUND SIGNAL LH (-) 23 P SOLIND SIGNAL PH (+)	Connector Name	VIDEO DISTRIBUTOR	19	SHE D	AUX IMAGE SIGNAL
Connector Type A08FW		× ×	Connector Type	TH16FW-NH	22	SHIELD	SHIELD
1		7	1		23		DVD IMAGE SIGNAL
3		ж J	45				
Ž.		32 R AV COMM (H)	Ž.		Connector No.	- No. M259	
1 2	3 4 5 6 7 8			26 28 30 32 34 36 38 40	Connector Name	Name WIRE TO WIRE	ш
]		Connector No. M255	_	27 20 00 00 00	Connector Type	Type TH32MW-NH	
Torminal		Connector Name VIDEO DISTRIBUTOR	Torminal		1		
	Signal Name [Specification]	Connector Type TH08FW-NH	_	S	Ē	L	
т Ж	SOUND SIGNAL RH (+)	ά	25 R	RGB (R:RED) SIGNAL	5	╗.	
+	SOUND SIGNAL GND	厚	26 L	RGB (G:GREEN) SIGNAL		17 18 19 20 21 22 23	23 24 25 26 27 28 29 30 31 32
5 m	SOUND SIGNAL LH (+)[Without DVD player]	is:	+	RGB (B:BLUE) SIGNAL		7H	i]]
	AUX IMAGE SIGNAL	54 56 60	29 R	VP			
SHIELD	SHIELD[With DVD player]	53 55	T		Terminal		Signal Name [Specification]
8 K	AUX IMAGE GND[Without DVD player]		5	SHIELD	No.	or wire	
		Tarminal	32 B	COMPOSITE SYNC	- (~	- □	
Connector No. M254		_	╀	COMPOSITE IMAGE SIGNAL	9 4	SHELD	1
١,	03/24	В	돐		2	LG	-
	CALLER .	Y B,	П		9	^	1
Connector Type TH32FW-NH	W-NH	>	38 SHIELD		7	SHIELD	1
4		56 G IGNITION	+	COMM (DISP->DIST)	8	۳.	ı
至		-	40 LG	COMM (DIST->DISP)	o (	5 1110	1
H.S.					1 1	SHIELD	1 1
8	12 14 16 18 20 22 24 26 28 30	Connector No. M256	Connector No.	M258	12	: 0	1
13579	11 13 15 17 19 21 23 25 27 29 31	MINEO DISTRIBILITOD	Connector Name	VIDEO DISTRIBITOR	13	Г	-
			Collifector Name	VIDEO DISTRIBUTOR	14	œ	-
L		Connector Type TH12FW-NH	Connector Type	TH24FW-NH	16	5	1
Terminal Color	Signal Name [Specification]	Q.	ąį		18	>	1
No. or wire	Civo	在去	至于		61		1
o >	BATTERY		ES.	Ш	20	2] >	
3 6	ILLUMINATION		2 4	4 6 8 10 12 14 16 18 20 22 24	23	SHIELD	-
4	ACC	21	-	3 5 7 9 11 13 15 17 19 21 23	24	В	-
5 SHIELD	SHIELD				25	W	-
7 P	DVD IMAGE SIGNAL				26	ж	-
$\dashv$	AUX SOUND SIGNAL LH (-)	lar	lal	Signal Name [Specification]	27	SHIELD	1
+	AUX SOUND SIGNAL RH (-)	of Wire	No. of Wire		28	g	i
+	AUX SOUND SIGNAL LH (+)	51 B GND	+	AV COMM (H)	29	œ	-
†	AUX SOUND SIGNAL RH (+)		+	AV COMM (L)	30	SHIELD	1
SHELD	SHIELD		α.	AV COMM (H)	33	<u>α</u>	1
10 G HEAD	HEADPHONE SOUNDSIGNAL SIGNAL LH (+)		4 %	COMPOSITE MAGE OND			
< >	HEADPHONE SOUNDSIGNAL SIGNAL RH (+)		+	COMPOSITE IMAGE GIND			
. g	HEADPHONE SOUNDSIGNAL SIGNAL RH (-)		╀	GND			
2			$\frac{1}{2}$	4			

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ation]    Second   Se	А
Signal Name (Specification)  -[With telephone and navigation system) -[With telephone without navigation system)	В
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Terminal   Color	D
NA AMP.)  Predication  B  B  B  B  B  B  B  B  B  B  B  B  B	Е
ASE (ANTEN	F
	G
	Н
Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]  WIRE  1-2/1P-HU  WIRE  1-2/1P-HU  Signal Name [Specification]	I
Signal Name [Specification	J
WITH DVD ENTERTAINMENT SYSTEM  Connector Name (Avacancius system)  Connector Type (31350-2×15-HU  Signal Name (Specification)  Terminal Color (31351-2×15-HU  Connector Name (MBT)  Connector Name (MBT)  Connector Name (MBT)  Connector Name (MBT)  Connector Type (311351+2×15-HU  Connector Name (MBT)  Connecto	K
<del>_</del>	L
Pipergy     Pipe	M
	AV
BOSE AUC   Connector Name   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Name   Connector	0
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JCNWM3210GB

## BOSE AMP.

Reference Values

INFOID:0000000005528586

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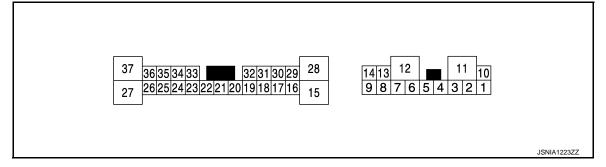
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### **TERMINAL LAYOUT**



#### PHYSICAL VALUES

	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
1 (LG)	2 (V)	Sound signal front squawker LH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E
4 (P)	3 (L)	Sound signal front squawker RH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 ***2ms SKIB3609E
5 (Y)	6 (BR)	Sound signal rear speaker RH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E
7 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
10 (SB)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage
11 (GR)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage
12 (B)	Ground	Ground	_	Ignition switch ON	_	0 V

## [BOSE AUDIO WITHOUT NAVIGATION]

	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
13 (GR)	8 (BR)	Sound signal rear speaker LH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 ++2ms SKIB3609E
14 (L)	9 (O)	Sound signal rear door speaker RH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E
16 (B/R)	17 (W/R)	Sound signal woofer	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 *** 2ms SKIB3609E
18 (W)	19 (B)	Sound signal front door speaker LH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E
20 (SB)	Ground	Amp. ON signal	Input	Ignition switch ACC	_	12.0 V
21	_	Shield		_	_	_
22 (W)	Ground	Woofer Amp. ON signal	Output	Ignition switch ACC	_	12.0 V
24 (GR/V)	23 (W/L)	Sound signal rear LH	Input	Ignition switch ON	Sound output.	(V) 1 0 -1 2ms SKIB3609E

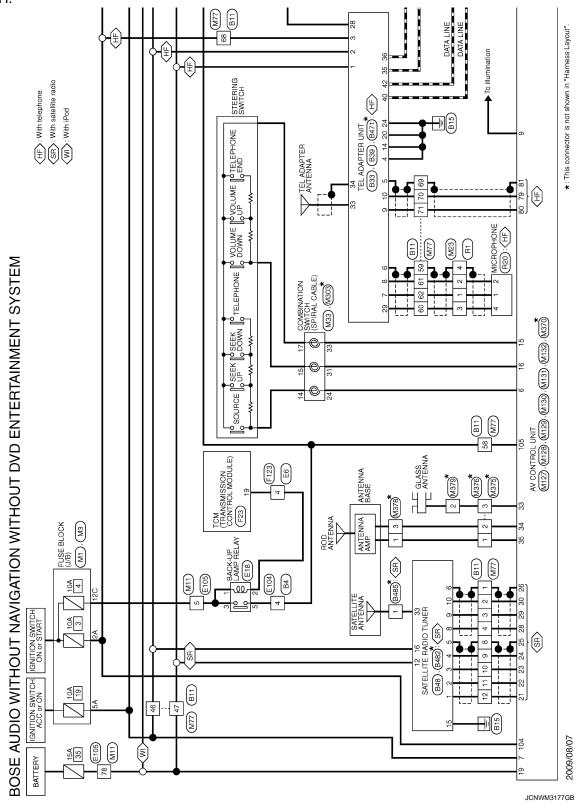
### [BOSE AUDIO WITHOUT NAVIGATION]

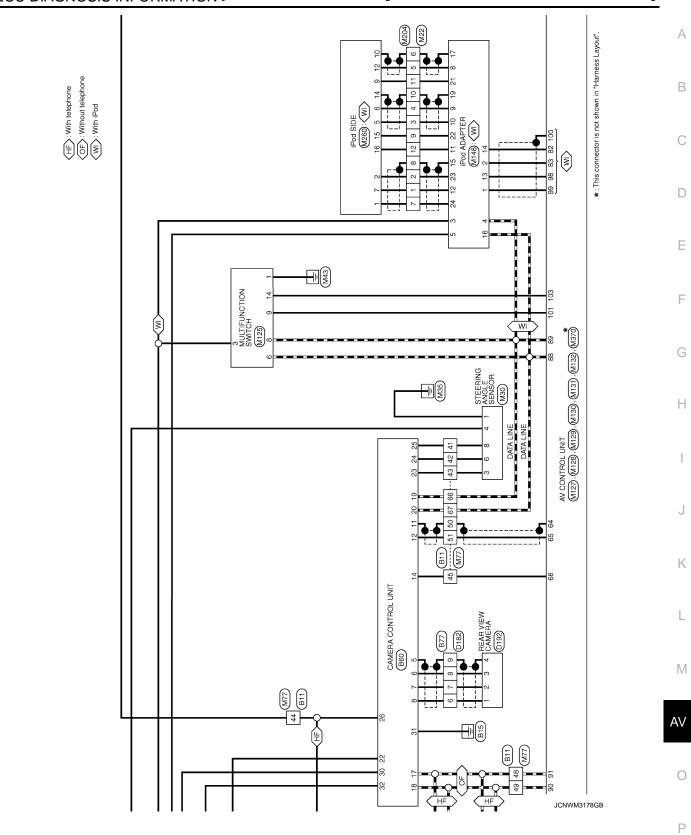
	minal color)	Description			Condition	Reference value	А
+	_	Signal name	Input/ Output		Condition	(Approx.)	
26 (GR/V)	25 (W/L)	Sound signal rear RH	Input	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E	B C
28 (G)	15 (R)	Sound signal rear door speaker LH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 ++2ms SKIB3609E	E F
29 (V)	30 (P)	Sound signal center speaker	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E	G H
31 (BR)	32 (Y)	Sound signal front door speaker RH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E	J K
33 (W/R)	34 (B/R)	Sound signal front RH	Input	Ignition switch ON	Sound output.	(V) 1 0 -1 → + 2ms SKIB3609E	L M
35 (W/R)	36 (B/R)	Sound signal front LH	Input	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E	O P

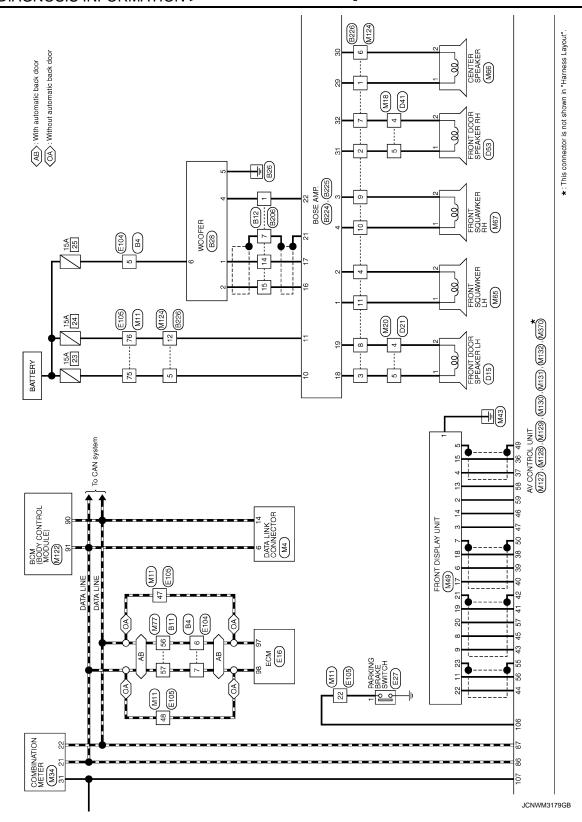
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION WITHOUT DVD ENTER-TAINMENT SYSTEM -

NOTE:

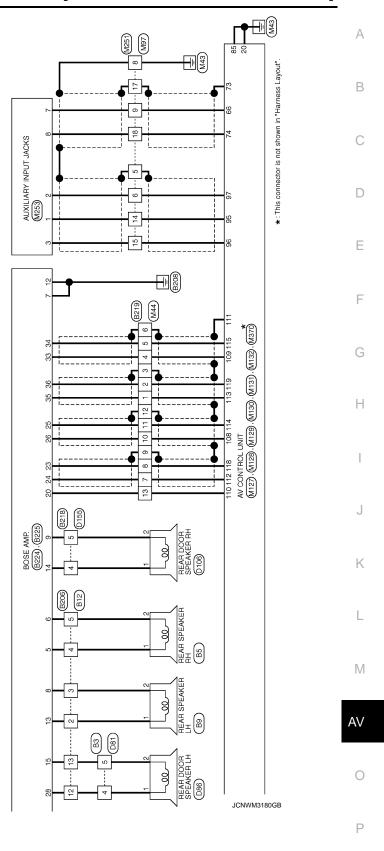
In this section, PRESET SWITCH and MULTIFUNCTION SWITCH are written as the MULTIFUNCTION SWITCH.

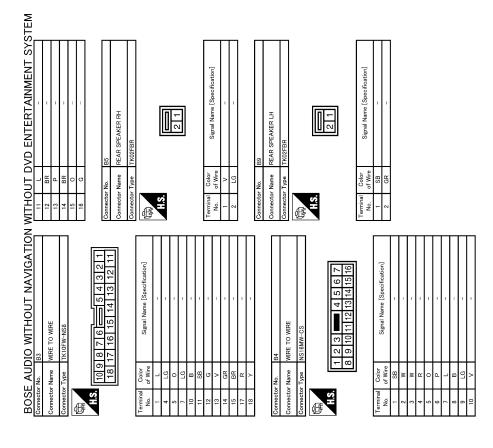






# [BOSE AUDIO WITHOUT NAVIGATION]





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STEM   September   September	Н
WITHOUT DVD ENTERTAINMENT SYSTEM   WITHOUT DVD ENTERTAINMENT SYSTEM   44	I
/D ENTER	J
SHELD   SHEL	K
MTTA	
	L
AUDIO WITHOUT NAVIGATIO    In	M
WINE TO WINE  THROWNW-CSTST  Signa  Signa	AV
Connector Name   Connector Name   Connector Name   Connector Name   Connector Type   Conn	0
BOSE   Commercial National N	0
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## [BOSE AUDIO WITHOUT NAVIGATION]

Connector No.   6482   Connector Name   SATELLITE RADIO TUNER   Connector Name   SATELLITE RADIO TUNER   Connector Name   Color   Signal Name (Specification)   Color   Color   Signal Name (Specification)   Color	A B C
Connector Name   WIRE TO WIRE	E F G
TERTAINMENT SYSTE  JANL FRONT SOLUMWER HI (-)  JANL FRONT SOLUMWER HI (-)  SIGNAL READ SPEAKER HI (-)  MALE ROY SOLUMWER HI (-)  MALE ROY SOLUMWER HI (-)  MALE ROY SPEAKER HI (-)  MALE ROY DOOR SPEAKER HI (-)  MALE AND DOOR SPEAKER HI (-)  MALE A	H
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BOSE AU Commetter No. Commetter Type Commetter Type HS IGERE	Pr No.	Connector No.   D21   D21	WITHOUT	MITHOUT D  S3	WITHOUT DVD ENTERTAINMENT SYSTEM	Connector No. Connector Name Connector Type H.S.	Vo. DES Vame FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM) Type NSOZFBR-CS	Connector No. D86 Connector Name REAR DOOR SFEAKER LH WITH BOSE DYSTEM) Connector Type NSDZFBR-CS
			Connec	Connector Type	TH40FW-CS15			
Terminal No.	Color of Wire	Signal Name [Specification]	1			Terminal No. o	Color Signal Name [Specification]	Terminal Color Signal Name [Specification]
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2	ŋ	1			15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	2	В –	2 W –
e 4	a e	1 (		46 45 44 4 55 54 5	46  45  44  43  42  41  40  39  38  37  36    26  25  24  23  22  21  20  19  18  17  16    55  54  53  52  50  48  47    35  34  33  32  31  30  29  29  20  27			
. 5	*	1				Connector No.	Vo. D81	Connector No. D106
9	SB	1				Connector Name	NIRE TO WIRE	Gonnector Name REAR DOOR SPEAKER RH (WITH BOSE SYSTEM)
_ (	a 2	1	Terminal N-	al Color	Signal Name [Specification]	ŀ	Т	Т
30 a	HA G	1 1	No.	or wire		Connector	7	Connector Type NSUZFBR-CS
01	<u></u>	1	- 2	>		Œ		
Ξ	0	i	4	В	1	Š		
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0	<u> </u>		م 1	1 0			11   12   13   14   15   16   17   18	2 1
17	>	1	8	В	1	-		
18	GR	1	16	5	1	ı		ı,
19	HB.	1	12	> 5	-	la	Color Signal Name [Specification]	Terminal Color Signal Name [Specification]
20	5 a	Т	8 5	R GR	1 1	o -		
25	>	1	20	PI	1	. 4	- 1	2 W -
26	W	1	24	ΓG	-	2		
29	> 6	1	25	> <	-	7		
31 30	95 G	1 1	50	>	1 1	1 10	m > a	
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32	٥	ı	8	g ;	-	15		
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43	٦	1						
44	Μ	-						
45	SB	1						
46	: ۲	1						
21 20	> 0							
25	) a	-[With automatic drive positioner]						
52	_	-[Without automatic drive positioner]						

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# [BOSE AUDIO WITHOUT NAVIGATION]

Signal Name [Specification]  Signal Name [Specification]	АВ
Connector No. E18 Connector Name BACK-UP LAMP RELAY Connector Name ISPA  Terminal Color Signal Name ISPA  Connector Name PARKING BRAKE SWITCH Connector Name PARKING BRAKE SWITCH Connector Name Of Wire  Connector Name Color No. of Wire  Terminal Color No.	C
	E
Fig.	G
AINMENT SYSTE	H
12   G   Connector Name   Connector Na	J K
	L
Some circular   Connector No.   D185	AV
Commetter Name   Comm	O

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Connector No. F123 Connector Name WIRE TO WIRE Connector Type TK16FCV-1V	1.8.   7 6 5 4   3 2 1   16 15 14 13 12 11 10 9 8	Terminal Color Signal Name [Specification]	G/R	$^{\rm H}$	8 P -	H	12 BR –	Н	14 B	$\frac{1}{2}$		Connector No. M1	Connector Name FUSE BLOCK (J/B)	Connector Type NS06FW-M2	đị.	CHAP.	3A [] 2A 1A	8A 7A 6A 5A 4A			Terminal Color Signal Name [Specification]	10. of Wire	2A G	┞	4A GR –	5A R -	Н	7A LG -	8A Y	
Connector No. F723 Connector Name TOM (TRANSMISSION CONTROL MODULE) Connector Type RR440FB-R28-L-RH	15. 31 32 33 34 35 37 21 22 23 24 25 21 11 12 13 14 15 11 1	Signal Ne		NI NH S	5 B GND 7 W SENSOR GND	Н	9 L/R CMP SELECT (SELT) 10 BR/R DATA I/O (SEL3)	BR/W	13 V ATF TEMP SENSOR	M/A	G/B	R/B	25 W/R SENSOR GND 26 L/O SENSOR POWER SOURCE(5V)	R/G	α !	29 O/B S/M-B 30 G/R S/M-A	Ф	32 L CAN-H	LG/R	V/R L	M/I	39 W/B SEC-LINEAR SOL 40 R/V DI INFAR SOL	8	┞	L/R	48 Y VIGN				
WITHOUT DVD ENTERT,	20 Y	S S S	≥ ≻ 0	1 J	49 SB – – 50 GR –	TC TC	+	~	- × × × × × × × × × × × × × × × × × × ×	>	61 BR –		64 SHELD -	W	BR	- AS 69	GR	71 SB = -		74 W –	BR (	77 O =	>>>>	- × 42	80 R	81 W –	82 LG –	83 0 -		
BOSE AUDIO WITHOUT NAVIGATION Connector No. E104 Connector Name WIRETO WIRE Connector Type NSIGFW-CS	HS. 7 6 5 4 6 3 2 1 16 15 14 13 12 11 10 9 8	Terminal Color Signal Name [Specification]	2 SB	% 4 % 4 % 4 % 4 % 4 % 4 % 4 % 4 % 4 % 4	1 1 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	H	- M/8 8	Н	# N W	+	H	15 Y	16 L L		Connector No. E105	Connector Name WIRE TO WIRE	Connector Type TH70MW-CS10-M3	1	9		8 5 920 8 7 8 7 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9	2 2		Color	No. of Wire Signal Name [Specification]	2 BR –	3 ү	w .	5 LG	- E

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WITE RTAINMENT  Signal Name [Specification]	I
H1/0 F   H	J
Colorector No.   Colorector No.   Colorector No.   Colorector Type   Color   No.   C	К
z	L
Supplementary Name   Supplem	M
NSTEPW-CS   NSTE	AV
BOSE AUI	0
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24 BR -LWith audio steering switch and telephone] 25 P - IWith audio steering switch without telephone] 26 SB IWith audio steering switch without telephone] 31 Y -IWith audio steering switch without telephone] 32 SB IWith audio steering switch without telephone] 33 SB IWith audio steering switch without telephone] 34 Y Y		
TEM	No   No   No   No   No   No   No   No	No. of Wire Signal Name [Specification]
Connector No.   M20   WITHOUT NAVIGATION WITHOUT DVD ENTERTAINMENT SYSTEM	Terminal Color   Col	2 SHIELD -[With telephone and navigation system]
Connector No. M20 Connector Name M20 Connector Name WIFE TO WIFE Connector Type TH40MW-CS15  Connector Type TH40MW-CS15  Connector Type TH20MW-CS15  Connector Type TH20MW-CS15  Th40MW-CS15	52 R[Without automatic drive positioner]	

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# [BOSE AUDIO WITHOUT NAVIGATION]

BOSE AUDIO WITHOUT NAVIGATION WITHOUT DAYD ENTERTAINMENT SYSTEM    Comment for property   C	Connector No. M66  Connector Name CENTER SPEAKER  Connector Type ITAQPER  Terminal Color Signal Name [Specification]  Connector No. M67  Connector	A B C
Contract Name   Contribution with the part   Contract Name   Contract Name   Contribution with the part   Contract Name   Co		
Contract Name   Contribution with the part   Contract Name   Contract Name   Contribution with the part   Contract Name   Co	ACCUMPAN LANGERON STATEMENT AND CONTRIBUTION OF STATEMENT AND CONT	
Concepted Name   Control Name   Co		G
Commeter No.   MS4   MITHOUT NAVIGATION	STEM  2 2 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Н
Commeter No.   MS4   M	Name [Specification]	I
Commeter No.   MS4   MITHOUT NAVIGATION	A	J
Commeter No.   MS4   MITHOUT NAVIGATION	Connector Name   Managements	К
JCNWM3190GB	z	L
JCNWM3190GB	WITHOUT NAVIGO BINATION METER FW-NH Signal Name [Specification] BAT TO THE STATE OF	
JCNWM3190GB	AUDIO   Name	AV
	J(	

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66   Y   AUX IMAGE SIGNAL[Without DVD player]     73	
Connector No.   M123   Connector No.   M124   Connector No.   M124   Connector No.   M125   Connector No.   M125   Connector No.   Connector	(
Connector Name	,
BOSE AUDIO WITHOUT NAVIGATION	A

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is	15	Terminal   Color   Signal Name [Specification]   No. of Wire   13	
National Property   Nati	19   8	Terminal   Color   Signal Name [Specification]     No. of Wire   SOUND SIGNAL RH (+)     No. of Wire   SOUND SIGNAL RH (+)     No. of Wire   SOUND SIGNAL CND     No. of Wire   SOUND SIGNAL CND     No. of SOUND SIGNAL LH (+) Without DVD player]     No. of SOUND SIGNAL LH (+) Without DVD player]     No. of SOUND SIGNAL LH (+) Without DVD player]     No. of SHELD   SHELD (Without DVD player]     No. of Wire   SHELD (Wire DVD player]	Connector No. M280 Connector Name Prod SIDE Connector Type IP16FGY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
WITHOUT DVD ENTERTAINMENT SYSTEM    SHIELD   SHIELD     R   R   AV COMM (4)     17   SHIELD   GND     18   SHIELD   SHIELD     19   SHIELD   SHIELD     21   L   Pod CONNECTION RECOGNITION     22   BR   ACCESSORY DETECT     23   R   IPOd SOUND SIGNAL LH (+)     24   LG   Pod SOUND SIGNAL LH (+)     24   LG   Pod SOUND SIGNAL LH (+)	sctor Na sctor Na sctor Tyy	3 R R	Connector No.   M251
BOSE AUDIO WITHOUT NAVIGATION  Connector No. M132  Connector Name Av. Control, User with Brose system without  Connector Type THIZPH-NH  Connector Type THIZPH-NH	L S S S S S S S S S S S S S S S S S S S	Connector No. M148 Connector Type TH24PW-NH  H.S. T 2 3 4 5 6 7 8 9 1011112  13 14 15 16 17 18 19 20 21 22 23 24	No. of Wire   Signal Name [Specification]     1

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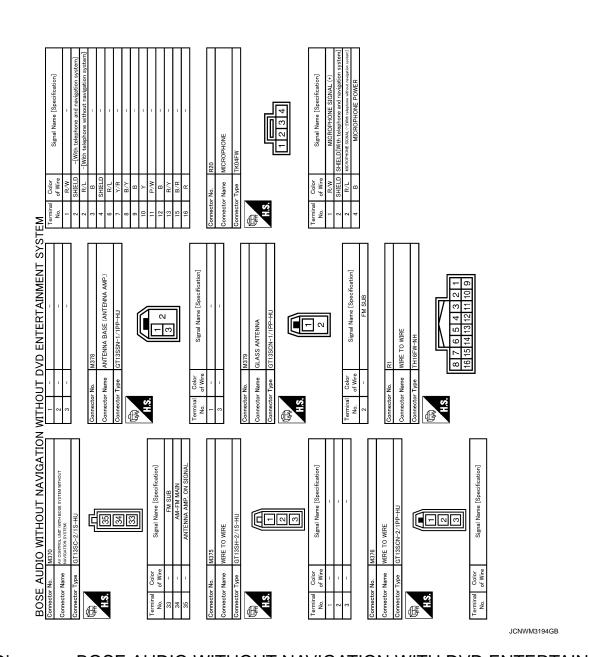
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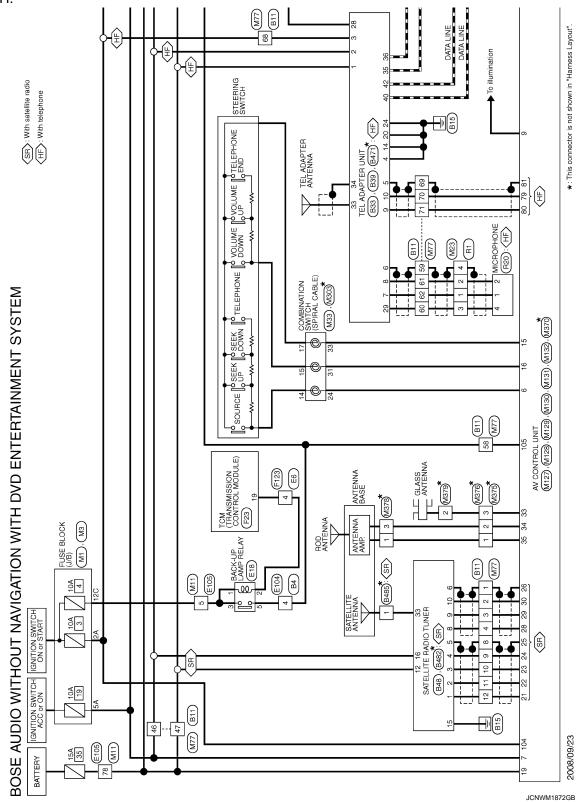
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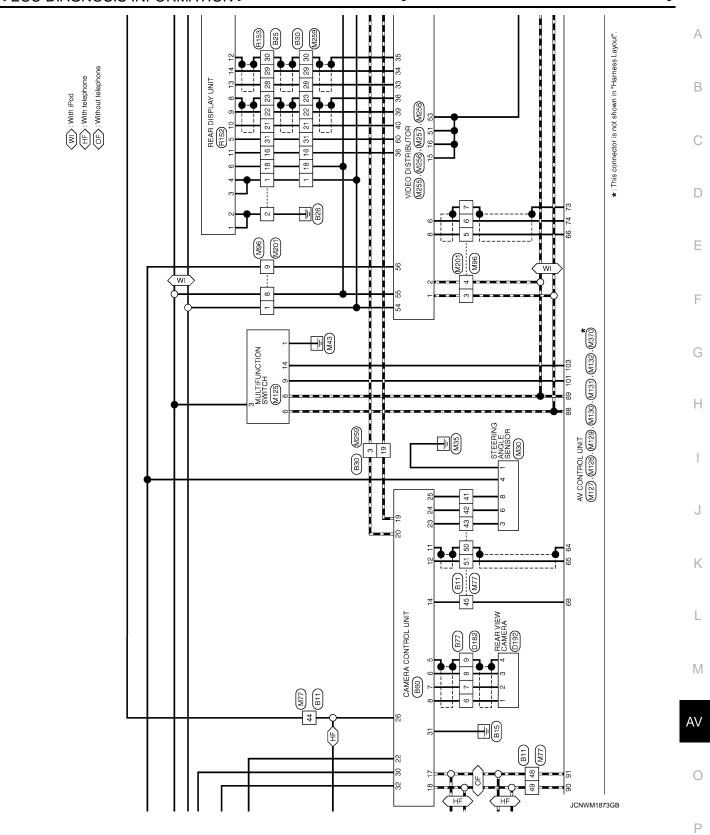


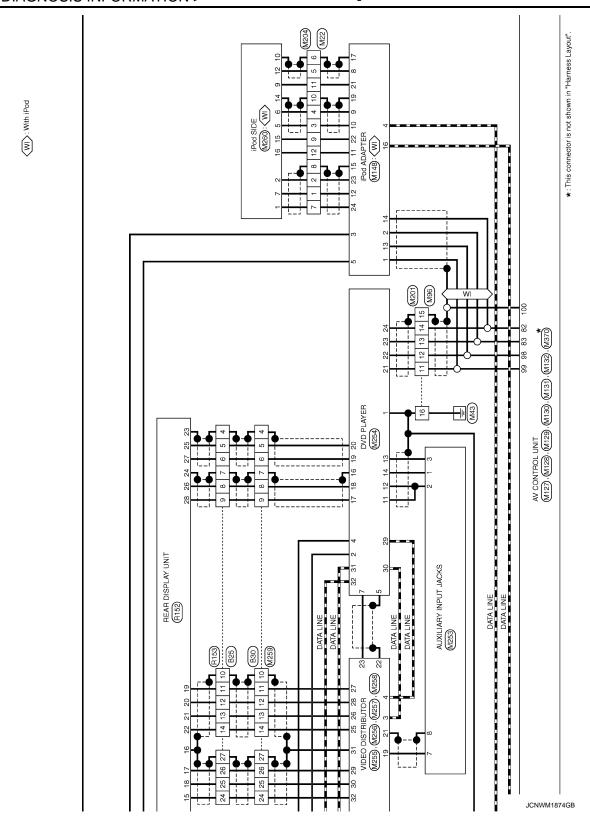
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAIN-MENT SYSTEM -

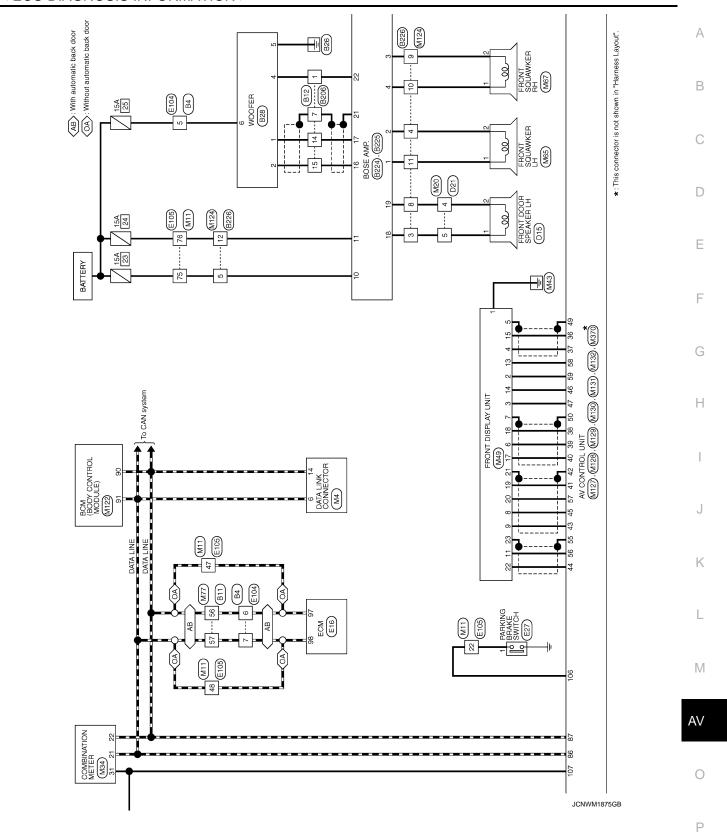
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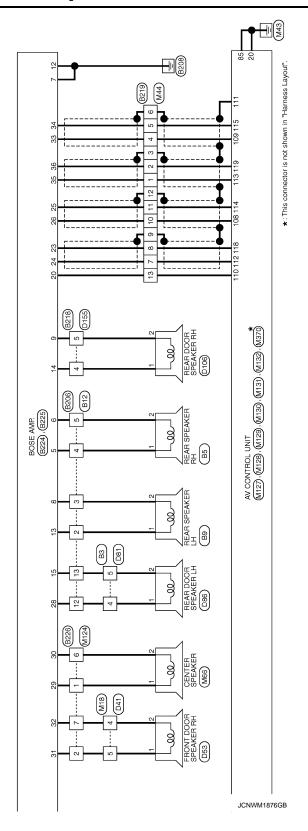
In this section, PRESET SWITCH and MULTIFUNCTION SWITCH are written as the MULTIFUNCTION SWITCH.











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MTHOUT NAVI	Signal Name [Specification]	1 1 1 1 1 1 1 1	RE TO WIRE STORMW-CS 2 3	Signal Name [Specification]
AUDIO WITH  lo. B3  lome WIRE TO WIRE  yee TK10FW-NSS  10 9 8 7 6 6  18 17 16 15	Odolor L L LG O LG LG B	GR < G SB	<u>m ≥ z</u> – ∞	Color SB
BOSE AU Commerctor No. Commerctor Name Commerctor Type H.S.	a la	11 12 13 17 17 17 18 18 18 18	Connector No. Connector Name Connector Type	Terminal (No. 10) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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			42	1	1	97	۳	1	2	W/R	
Connector Name	r Name Wirke TO WIRE		46	GR		86	ΓC	1	9	M/L	1
Connector Type	r Type TH80MW-CS19		47	>		66	0	1	_	SHIELD	
þ			48	GR	Н				8	H	- ^
厚	[ [		48	ВR	-[With rear view camera without telephone]				6	┪	-
VII.			46	>	1	Connector No.		B12	10	*	O
			20	SHELD		Connect	Connector Name	WIRE TO WIRE	Ξ	M/L	-
			21	В	-				12	+	-
			52	В	-	Connec	Connector Type	NS16FW-CS	13	1	-
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			54	ΓG	1	彦			16	>	-
Terminal	Color Signal Name [Specification]	_	22	BR	1	) I	L		18	Н	-
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25	· -		85	-	1	Connec	tor Name	WIRE 10 WIRE	Terminal	⊢	
27	^		83	BR	1	Connec	Connector Type	TH32MW-NH	No		Signal Name [Specification]
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30	-		82	G	1	1			2	B/R	SOUND SIGNAL WOOFER (+)
31	- 0		98	SB	1	ŧ			4	>	WOOFER AMP. ON SIGNAL
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Connector Name   Name   Connector Name		F
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Connector Name   WIRE TO WIRE	TEL ADAPTER UNIT   THOSPW-NIH   THOSPW-NIH   THOSPW-NIH   NIT   THOSPW-NIH   NIT   THOSPW-NIH   THOSPW-NIH   THOSPW-NIH   THOSPW-NIH   THOSPW-NIH   THOSPW-NIH   THOSPW-NIH   TEL VOIT   THOSPW-NIH   THOSPW-NIH   THOSPW-NIH   THOSPW-NIH   THOSPW-NIH   THOSPW-NIH   TEL VOIT   TEL VOIT   TEL VOIT   THOSPW-NIH   THOSP	J
Connector Name   WIRE TO WIRE	TTH DVD   Ormector No.   Ormector Type   Orm	K
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JCNWM3197GB	HOUT NAVIGA	M
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JCNWM3197GB	Connector Name   Conn	0
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W/L GR/V W/L GR/V	28   G   SOUND SIGNAL REAR DOORS SERAKREH (H (+)     29   P   SOUND SIGNAL CENTER SPEAKER (+)     30   P   SOUND SIGNAL CENTER SPEAKER (+)     31   BR   SOUND SIGNAL FRONT DOOR SPEAKER RH (-)     32   Y   SOUND SIGNAL FRONT DOOR SPEAKER RH (-)     33   W/R   SOUND SIGNAL FRONT RH (-)     34   B/R   SOUND SIGNAL FRONT RH (-)     35   W/R   SOUND SIGNAL FRONT RH (-)     36   W/R   SOUND SIGNAL FRONT RH (-)     37   W/R   SOUND SIGNAL FRONT RH (-)     38   W/R   SOUND SIGNAL FRONT RH (-)     39   W/R   SOUND SIGNAL FRONT RH (-)     30   W/R   SOUND SIGNAL FRONT RH (-)     31   B/R   SOUND SIGNAL FRONT RH (-)     32   W/R   SOUND SIGNAL FRONT RH (-)     33   W/R   SOUND SIGNAL FRONT RH (-)     34   B/R   SOUND SIGNAL FRONT RH (-)     35   W/R   SOUND SIGNAL FRONT RH (-)     36   W/R   SOUND SIGNAL FRONT RH (-)     37   W/R   SOUND SIGNAL FRONT RH (-)     38   W/R   SOUND SIGNAL FRONT RH (-)     39   W/R   SOUND SIGNAL FRONT RH (-)     30   W/R   SOUND SIGNAL FRONT RH (-)     30   W/R   SOUND SIGNAL FRONT RH (-)     31   W/R   SOUND SIGNAL FRONT RH (-)     32   W/R   SOUND SIGNAL FRONT RH (-)     33   W/R   SOUND SIGNAL FRONT RH (-)     34   W/R   SOUND SIGNAL FRONT RH (-)     35   W/R   SOUND SIGNAL FRONT RH (-)     36   W/R   SOUND SIGNAL FRONT RH (-)     37   W/R   SOUND SIGNAL FRONT RH (-)     38   W/R   SOUND SIGNAL FRONT RH (-)     39   W/R   SOUND SIGNAL FRONT RH (-)     30   W/R   SOUND SIGNAL FRONT RH (-)	36 6/R  Gennector No. 8228  Connector Name WIRE T  Connector Type NS12M		Terminal Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   1	9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	RH (-)
Connector No. B224 Connector Name BOSE AMP. Connector Type SGA12FBR-SJA2	HS 12 11 10 11 10 9 8 7 6 5 4 3 2 1	Signal Name Signal Name Sound Signal FF Sound	7 B SOUND SIGNAL GRAP SPEAKER LH (~) 9 0 SOUND SIGNAL BEAR SPEAKER HH (~) 10 SB BATTERY 11 GR BATTERY 12 B COUND SIGNAL REAR SPEAKER HH (~) 13 GR SOUND SIGNAL REAR SPEAKER HH (~) 13 GR SOUND SIGNAL REAR SPEAKER LH (+)	8 B2 S	1888	Terminal Color
	17   R		Terminal   Color   C	6 SHIELD	<del>                                     </del>	32 BR
BOSE AUDIO WITHOUT NAVIGATION           Connector No.         8206           Connector Name         WIRE TO WIRE           Connector Type         NISTRAMP-CS	HS. 1 2 3 4 5 6 7 8 9 10 11 11 2 13 14 15 16	of of S	8 B		1   ၈ <del>  </del>	Terminal   Color   Signal Name [Specification]   1   1   1   1   1   1   1   1   1

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Bose system) [cation]	А
DB3  NSOZEBR-CS  NSOZEBR-CS  Signal Name [Specification]	В
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automatic drive positioner]  t automatic drive positioner]  t automatic drive positioner]  t automatic drive positioner]	Е
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Connector Name   Fig.	K
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BOSE AUDIO WITHOUT NAVIGATION Connector Name TEL ADAPTER UNIT Connector Type GT16C-1S-HU  Terminal Color No. of Wire Signal Name [Specification]  Terminal Color Signal Name [Specification]  Terminal Color Signal Name [Specification]  ALS  Connector Name SATELLITE AND TUNER  Connector Name SATELLITE AND TUNER  Connector Name SATELLITE AND TO THE ANTENNA  Connector Name SATELLITE AND THE SAME CONTROL TO T	M
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BOSE AUDIO WITHOUT NAVIGATION	WITH DVD ENTERTAINMENT SYSTEM			
Connector No. D81	Connector No. D106	Connector No. D182	Connector No. E6	
Connector Name WIRE TO WIRE	Connector Name REAR DOOR SPEAKER RH (WITH BOSE SYSTEM)	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	
Connector Type TK10MW-NS8	Connector Type NS02FBR-CS	Connector Type TK12FW	Connector Type TK16MGY-1V	
	•	E	4	
HS [112 3 4 5]	H.S.	HS. [5 4 3 ==2 1	H.S. (123 4567)	
11 12 13 14 15 16 17 18	21	12 11 10 9 8 7 6	8 9 10 11 12 13 14 15 16	
L	L	-		
Terminal Color   Signal Name [Specification]   No.   of Wire   Signal Name [Specification]	Terminal Color Signal Name [Specification] No. of Wire	Terminal   Color   Signal Name [Specification]   No.   of Wire	rtion] Terminal Color Signal Name [Specification.] No. of Wire	
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+	Connector No. D155		> 1	
+	Connector Name WIRE TO WIRE		<u> </u>	
+	Т	†	+	
13 V	Connector Type TK10MW-NS8	8	+	
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	11 12 13 14 15 16 17 18	Connector No. D192		
Connector No. D86		Γ		
		Connector Name REAR VIEW CAMERA		
Connector Name   REAR DOOR SPEANER LH (WITH BOSE STSTEM)	la	Connector Type TH04MW-NH		
Connector Type NS02FBR-CS	re	1		
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WW-CSIO-M3  Signal Name (Signal	F
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Signal Name [Specification]	I
Connector Name   BACK-UP LAMP RELAY   Connector Name   BACK-UP LAMP RELAY   Connector Name   BACK-UP LAMP RELAY   Connector Name   Connector	J
MITH DVD  Connector Name  Conn	K
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Connector Name   Conn	0
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Connector No. M3 Connector Name FUSE BLOCK (J/B) Connector Yave NSIZEW-CS		Terminal Color Signal Name [Specification]	6C BR -	200	GR	Н	Ц	12C 0 -		ZM ZZPZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	Т	Connector Name DATA LINK CONNECTOR	Connector Type BD16FW		I I I			103/15/8	11001-10		Terminal Color Simple Name (Sameles Him)	No. of Wire Signal Name Lapecincation	+	5 B –	-	+	+		16 Y =					
BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAINMENT SYSTEM           Connector No.         F23         F123           Connector Name         TIX (TRANSMISSION CONTROL MODILE)         Connector Type         MIRE TO WIRE           Connector Type         RH40FB-RZ8-L-RH         Connector Type         TIX (HFC)-LV		Color Signal Name [Specification]	- 1 1	1/0 8/9	1	L/R -	- L	Y/B -	BR/W -	- I	5 a	1			or No. M1	or Name FUSE BLOCK (J/B)	T	or Type NS06FW-M2			3A2A1A	O A 74 64 54 44	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Ļ		of Wire	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				oc 3	M 51	X
WITH DVD Connector No. Connector Name Connector Type	HS.	Terminal No.	- 0	9	. 2	9	8	10	= :	15	2 5	12			Connector No.	Connector Name		Connector Type	<b>€</b>	事	Ź.					Terminal	O	4 :	ZA	3A	4	2A	۲ A	8A
DIO WITHOUT NAVIGATION F23 TOM (TRANSMISSION CONTROL MODULE) RH40FB-RZ8-L-RH	22 33 34 35 66 37 38 39 40 47 48  22 23 34 15 16 17 18 19 20 44 42  2 3 4 5 6 7 18 8 9 10 41 42	Signal Name [Specification]	INH SW 2		INH SW 3 MON	GND			ō	DA	ATE TEMD SENSOD				S		SENSOR P		S/W-C			CAN-H			_	_	9	PL LINEAR SOL	GND	VIGN	BATT	VIGN		
BOSE AU Connector No.		al Color of Wire	P/B	9/2	g B	В	Μ	Σ	L/R	BR/R	A >	. %	M/A	G/B	R/B	W/R	9	R/G	۵ ک	9 8	۵	٦	PC	LG/R	Α//	L/W	W/B	Σ,	2	>	¥ :	>		
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1	Commont   Comm			77	r 0 >	1 1 1	(F	7	W-0513	+H	-[Without auto	omatic drive positioner natic drive positioner] omatic drive positioner	
Control of the cont	Conception Name   Conception			80	5 K	1 1	HS.	1 2 3 4 5	6 7 8 9 10 11 12 13 14 15	-	<u></u>		Γ
Concertor No.   Concertor No	Commonwork   Com		1 1	82	3 3	1 1		2728293031323 2728293031323	33425 26 36 37 38 38 40 41 42 43 44 45 46 33 43 44 35 35 43 59 54 55	Connector No.	M22 WIRE TO WIRE		Τ
Converted Na   Wilson   Color	Contractor No.   Miss   Contractor No.   Co	+	0 0	83	0	1	,			Connector Type	TH12FW-NH		Τ
1	1		J 1	Connecto				Color of Wire	Signal Name [Specification]	Œ			]
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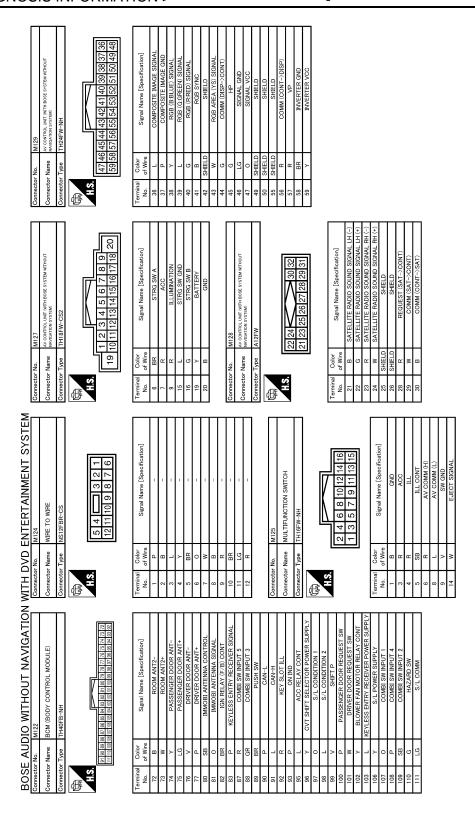
Revision: 2009 September AV-275 2010 Murano

BOSE AUDIO WITHOUT NAVIGATION	_	WITH DVD ENTERTAINMENT SYSTEM						
Connector No. M23	Connector No.	M33	14	GR	ILLUMINATION CONTROL SWITCH (-)	29		
aday of aday	2	(3 IGAO IAGIGS) HOTING MOITANIGMOO	15	BR	AIR BAG	30	- 0	
	Connector Nam		18	٦	AMBIENT SENSOR	31	٠ -	
Connector Type TH16MW-NH	Connector Type	TK08FGY-1V	19	Ь	AMBIENT SENSOR POWER	32	۰ -	
á	þ		20	>	AMBIENT SENSOR GROUND			
<b>多</b>	厚		21	_	CAN-H			ı
	) E		22	Ф	CAN-L	Connector No.	lo. M49	_
		30 20 00	23	В	GROUND	Connector Name	EBONT DISBLAY LINIT	
1 2 3 4 5 6 7 8		97 57 47	24	W	FUEL LEVEL SENSOR GROUND	Collifector		
9 10 11 12 13 14 15 16		31 32 33 34	25	BR	CHG	Connector Type	ype TH24FW-NH	
			26	9	PARKING BRAKE SWITCH	(		l
			27	٨	BRAKE FLUID LEVEL SWITCH	修		
la	Terminal Color	Or Simal Name [Constitution]	29	ď	WASHER LEVEL SWITCH	Į	7	
No. of Wire	No. of Wire		30	۵	VEHICLE SPEED (2-PULSE)		100	
1 W -	24 BR	3 -[With audio steering switch and telephone]	31	>	VEHICLE SPEED (8-PULSE)		1098/65432	
2 SHIELD -[With telephone and navigation system]	24 W	-[With audio steering switch without telephone]	32	LG	OD OFF/SPORTS		24 23 22 21 20 19 18 17 16 15 14 13	
2 R -[With telephone without navigation system]	25 P	1	34	9	FUEL LEVEL SENSOR			
3 B -	26 SB	Н	35	SB	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)			ı
4 SHIELD –	31 G	-[With audio steering switch and telephone]	36	ч	SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)	la l	Color Simal Nama [Spacification]	
6 R	31	-[With audio steering switch without telephone]				No.	of Wire	
- X L	32 SB					-	B GND	
- X	33	-[With audio steering switch and telephone]	Connector No.		M44	2	Y BATTERY[With navigation system]	Π
- B	33 SB	7	-		JOHN OF TOWN	2	Y INVERTER VCC[Without navigation system	구
10 Y –	34	1			MINE IO MINE	3	R ACC[With navigation system]	
			Connector Type	or Type	TH32FW-NH	3	O SIGNAL VCC[Without navigation system]	
12 L –			4			4	SHIELD SHIELD[With navigation system]	
13 SB –	Connector No.	M34	F			4	P COMPOSITE IMAGE GND[Without navigation system	[ma
	Connector Name	COMBINATION METER	) II			5	ΑN	-
16 R –			2	I	7	5	SHIELD SHIELD[Without navigation system]	
	Connector Type	TH40FW-NH		15	13 12 11 10 9 8 7 6 5 4 3	9	R GB (G:GREEN) SIGNAL[With navigation system	[mi
	4			32 31 30	29 28 27 26 25 24 23 22 21 20 19 18 17	9	L RGB (G:GREEN) SIGNAL[Without navigation system	em]
Connector No. M30	厚					7 8	SHIELD SHIELD	
Compator Name STEEDING ANGLE SENIOD	٦					8	B HP[With navigation system]	
	į		Terminal	Color	Simpl Name [Specification]	8	G HP[Without navigation system]	
Connector Type TH08FW-NH	1 2	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	No.	of Wire	Ognar Ivanie Especification	6	W RGB AREA (YS) SIGNAL	
4	21 2	23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	-	g	•	11	R COMM (CONT->DISP)	
ほ			2	ď	-	12	W CAMERA IMAGE SIGNAL	
K			3	SHIELD	_	13	B GND[With navigation system]	
1	nal	or Simal Name Consideration	4	В	_	13	BR INVERTER GND[Without navigation system	7
1 2 3 4	No. of Wire		2	Μ	_	14	SHIELD SHIELD[With navigation system]	
5 6 7 8	-	BAT	9	SHIELD	1	14	LG SIGNAL GND[Without navigation system.	
╢	2 0	NDI	7	٦	1	15	Y AUX IMAGE SIGNAL[With navigation system	Ē
	3 B	GROUND	8	œ	1	15	L COMPOSITE IMAGE SIGNAL [Without navigation system	[ma
Terminal Color Signal Name [Securification]	4 B		6	SHIELD	1	17	G RGB (R:RED) SIGNAL	
	5 SB	ICI	10	^	1	18	W RGB (B:BLUE) SIGNAL[With navigation system	[m
1 R -	8 SB	3 TRIP RESET SWITCH	11	ΓG	-	18	Y RGB (B:BLUE) SIGNAL[Without navigation system	[we
2 P –	M 6	SW ILL POWER	12	SHIELD	1	19	B RGB SYNC	
3 L	10 0	METE	13	Ь	1	20		
	Н		12	ΓG	1	П	SHIELD	П
2	12 R	SELECT SWITCH	16	_	1	П	COMM	П
- BS 9	13 V	П	17	ш	1	23	SHIELD	П
Н	13	[LLUMINATION CONTROL SWITCH (+)[Without automatic drive positioner]	18	*	1			ı

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BOSE AUDIO WITHOUT NAVIGATION		WITH DVD		ENTERTAINMENT SYSTEM					
Connector No. M130		92	œ d	AUX SOUND SIGNAL RH (+)	Connector No.	M148	4 r	1	
Connector Name AV CONTROL UNIT (WITH BOSE SYSTEM WITHOUT NAVIGATION SYSTEM)	YSTEM WITHOUT	96	n 3	AUX SOUND SIGNAL LH (+)	Connector Name	iPod ADAPTER	6 9		
Connector Type TH16FW-NH		86	H	SOUND SIGNAL LH (-)[With DVD player]	Connector Type	Connector Type TH24FW-NH	SH	TD	
€		88	T	iPod SOUND SIGNAL LH (-)[Without DVD player]	4		8 0	1	
<b>F</b>	F	66	BR	iPod SOUND SIGNAL LH (+)[Without DVD player]	李		. OI	1	
\ \ \	ᆀ	T	Ω	SHIELD[With DVD player]	į į		L	1	
66 65 64 63	61	H	SHIELD	SHIELD[Without DVD player]	- \$	2 3 4 5 6 / 8 9 10 11 44 47 46 47 46 46 86 89 10 11	Н		_
75 74 73 72 71 70	89 69 0	101	> 3	SW GND	<u> </u>	14 15 16 17 18 19 20 21 22 23 24	+	1	_
		103	≥ ©	EJECT SIGNAL IGNITION			15 SHIFL		_
Terminal Color		105	gg	REVERSE	Terminal Color	L	t		
_	Specification	106	ŋ	PARKING BRAKE	_	Signal Name [Specification]	$\mathbf{I}$		
64 SHIELD SHIEL	ELD	107	>	VEHICLE SPEED (8-PULSE)	1 BR	iPod SOUND SIGNAL LH (+)			
W	AGE SIGNAL				2 R	iPod SOUND SIGNAL RH (+)	Connector No.	M204	
٥	GNAL[With DVD player]				3	ACC	Connector Name	WIRE TO WIRE	
+	[Without DVD player]	Connector No.	1	32	4	AV COMM (L)		Т	_
۵	RECOGNITION	Connector Name		AV CONTROL UNIT (WITH BOSE SYSTEM WITHOUT	+	BATTERY	Connector Type	TH12MW-NH	_
SHIELD	ELD		┪	IGATION STSTEM)	+		ą		
74 R COMPOSITE IMAGE GND[With DVD player	3ND[With DVD player]	Connector Lype	٦	TH12FW-NH	+	COMM (iPod ADAPTER->iPod)	手		
BR	Vithout DVD player]	4			+	COMM (iPod->iPod ADAPTER)	S	/ \	
		季			= ;	ACCESSORY IDENTIFY		103156	
Γ		\ \ \ \	•	<u> </u> 	7 .	Pod SUUND SIGNAL RH (+)		7 5	
Connector No. M131				11// 115 115 117 119 110	+	iPod SOUND SIGNAL LH (=)		7 8 9 10 11 12	
Connector Name AV CONTROL UNIT (WITH BOSE SYSTEM WITHOUT NAME NAVIGATION SYSTEM)	YSTEM WITHOUT			7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	4 2 A				
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Connector type Inszrwinn			-		17 CHIELD		No of Wire	or Signal Name [Specification]	
		Terminal	Color		T		t	1	
<b>3</b>		_	of Wire	Signal Name [Specification]	T	iPod CONNECTION RECOGNITION	2 R	1	
		108	^	SOUND SIGNAL REAR RH (+)	22 BR		3 R	-	
91 90 89 88 87 86 85 84 83 82 8	2 81 80 79 78 77 76	109	В	SOUND SIGNAL FRONT RH (+)	Н	iPod SOUND SIGNAL GND	4	-	_
101 100 99 98	97 96 95 94 93	110	Ь	AMP. ON SIGNAL	L		2 M	-	
		ヿ	SHIELD	SHIELD			6 SHIELD	OT	
L		112	_	SOUND SIGNAL REAR LH (+)		7000	7 LG	1	
I erminal   Color   Signal Name [Specification]	Specification]	113		SOUND SIGNAL FRONT LH (+)	Connector No.	Т	8 SHE	= -	
1	VOICE SIGNAL (=)	112	2 3	SOUND SIGNAL FRONT RH (-)	Connector Name	WIRE TO WIRE	ΰ.	-	_
		2 9		SOUND STONAL BEAD LEG	Coppertor Type	TuteMM-Nu	t		_
¥ 1		8 5	r c	SOUND SIGNAL REAR LH (=)	Connector Type	7	- 5		_
W SOLIND STONAL	CLD	50	۲	SOUND SIGNAL FROM LA (=)	Œ		1		_
Ť	(=)[with DVD player]				李				
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œ	(+)[With DVD player]					7 7 7 7			
iPod SOUND SIGNAL	(+)[Without DVD player]					2 3 4 5 0			
m	9					9 10 11 12 13 14 15 16			
7	T-7								
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χ.	MM (H)				ē	r Signal Name [Specification]			
89 L AV COMM (L)	MM (L)				No. of Wire				
g	MM (H)				1	1			
91 L AV COMM	MM (L)				3 R	-			

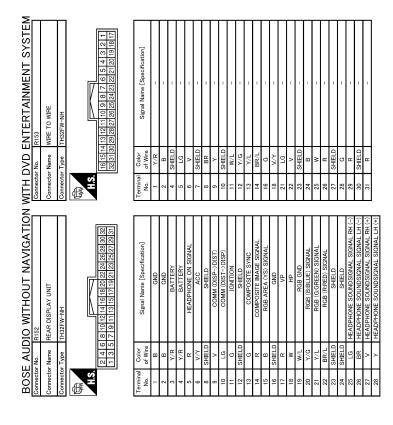
BOSE AUDIO WITHOUT NAVIGATION Connector No. M253 Connector Name AUXILLARY INPUT JACKS Connector Type A09FW	WITH DVD ENTERTAINMENT SYSTEM  21 G SOUND SIGNAL LH (+)  22 G SOUND SIGNAL LH (-)  23 R SOUND SIGNAL LH (-)  24 W SOUND SIGNAL RH (-)  24 W SOUND SIGNAL RH (-)  25 R SOUND SIGNAL RH (-)  26 R AV COMM (1)	Connector No. Connector Name Connector Type	M257 VIDEO DISTRIBUTOR THIGEW-NH	16 19 19 22 22 23 SH SH	B GND GND SHIELD
H.S. 12345678	L R ctor No. M255	S.	26 28 30 32 34 36 38 40 25 27 29 31 33 35 37 39	Connector No. Connector Name Connector Type	MZ59 NIPE TO WIRE TH22AMV-NH
Terminal   Color   Signal Name [Specification]	Connector Name VIDEO DISTRIBUTOR Connector Type THUSEW-NH  MASS FA	Terminal Color No. of Wire   25 R   26 L   27 W   28 G G   20 C C C C C C C C C C C C C C C C C C	Signal Name [Specification] ROB (RRED) SIGNAL ROB (G-GREEN) SIGNAL ROB GNO ROB (SHB.LID) SIGNAL ROB (SHB.LID) SIGNAL	HS.	2 3 4 5 6 7 8 9 101 11 12 13 14 15 16 18 19 10 11 12 13 14 15 16
LD SF	53 55	B	₽S And a d d	Terminal Co No. of	Color Signal Name [Specification]
	Terminal   Color   Signal Name [Specification]   Of Wire   Signal Name [Specification]   Signal Name [Specification]   Of Wire   Signal Name [Specification]   Of Wire   Of Wi	1   5	Ŏ	- 8 4 3 -	R R SHIELD -
Connector Name DVD PLAYER Connector Type TH32FW-NH	V V V C C C C C C C C C C C C C C C C C	+++	COMM	1111	SHELD - SHELD - G
4.8.	M256 VIDEO DIS	ctor Ne	M258 VIDEO DISTRIBUTOR	<del>                                     </del>	q
Terminal   Color   Signal Name [Specification]	Connector Type TH12PV-NH	Connector Type H.S.  2 4 1 3	THZ4FW-NH    6 8 10 12 14 16 18 20 22 24   5 7 9 11 13 15 17 19 21 23	<del></del>	Т С С С С С С С С С С С С С С С С С С С
7   P   DVD IMAGE SIGNAL	Terminal Color Signal Name [Specification] No. of Wire GND SI B GND	Color   Colo	Signal Name [Specification]  AV COMM (1)  COMPOSITE IMAGE GND  COMPOSITE IMAGE SIGNAL  GND		SHELD

JCNWM3208GB

# [BOSE AUDIO WITHOUT NAVIGATION]

Signal Name [Specification]  -[With telephone and navigation system] -[With telephone without navigation system] -[With telephone without navigation system]	А
Color   Signal Name [Special Name   Color   No. of With telephone and now   Color	C D
	Е
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	F G
Connector Name Connec	Н
Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]	I
Signal Name [Specification  Ma35  M376  M376  M376  M376  M376  M376  M376  M377   J	
MITH DVD Connector Name Connector Name of Wire State of Wi	К
And A TION  WIGATION  L CAND  C CAND	L
M200   MITHOUT NAVIGA	M
UDIO   10   10   10   10   10   10   10   1	AV
Connector Name   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Name   Conn	0
	JCNWM3209GB

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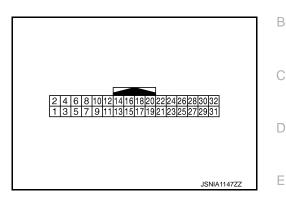


JCNWM3210GB

# **REAR DISPLAY UNIT**

Reference Values

**TERMINAL LAYOUT** 



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PKIB5039J

INFOID:0000000005528589

#### PHYSICAL VALUES

	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
1 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
2 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
3 (Y/R)	Ground	Battery power supply	Input	Ignition switch ON	_	Battery voltage
4 (Y/R)	Ground	Battery power supply	Input	Ignition switch ON	_	Battery voltage
5		Headphone amp. ON sig-		Ignition	Headphone mode is ON.	4.5 V
(R)	Ground	nal	Input	switch ON	Headphone mode is OFF.	0 V
6 (V/Y)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage
8	_	Shield	_	_	_	_
9 (V)	Ground	Communication signal (DISP→DIST)	Output	Ignition switch ON	Rear seat remote controller operation when AUX or DVD image is displayed on rear displayed.	(V) 6 4 2 0 + 1ms PKIB5039J
10 (LG)	Ground	Communication signal (DIST→DISP)	Input	Ignition switch ON	Rear seat remote controller operation when AUX or DVD image is displayed on rear displayed.	(V) 6 4 2 0 • • • 1ms

### **REAR DISPLAY UNIT**

# [BOSE AUDIO WITHOUT NAVIGATION]

	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
11 (G)	Ground	Ignition signal	Input	Ignition switch ON Ignition switch	_	0 V 3.3 V
12	_	Shield	_	OFF —	_	
13 (G)	Ground	Composite and RGB image synchronizing signal for rear display	Input	Ignition switch ON	When AUX or DVD image is displayed on rear display unit.	(V) 4 0 → 20μs SKIB0825E
14 (R)	Ground	Composite image signal	Input	Ignition switch ON	When AUX or DVD image is displayed on rear display unit.	(V) 0. 4 0 -0. 4 •••40μs SKIB2251J
					When AUX or DVD image is displayed.	0 V
15 (B)	Ground	RGB area (YS) signal	Input	Ignition switch ON	Rear seat remote controller operation when AUX or DVD image is displayed on rear display.	(V) 6 4 2 0 → + 200 \(\mu\) S PKIB4948J
16	_	Shield		_	_	_
17 (R)	Ground	Vertical synchronizing (VP) signal	Output	Ignition switch ON		(V) 4 0 ++4ms SKIB3598E
18 (W)	Ground	Horizontal synchronizing (HP) signal	Output	Ignition switch ON	_	(V) 4 0 → 20μs SKIB0825E
19 (W/L)	Ground	RGB ground	_	Ignition switch ON	_	0 V

#### **REAR DISPLAY UNIT**

#### < ECU DIAGNOSIS INFORMATION >

### [BOSE AUDIO WITHOUT NAVIGATION]

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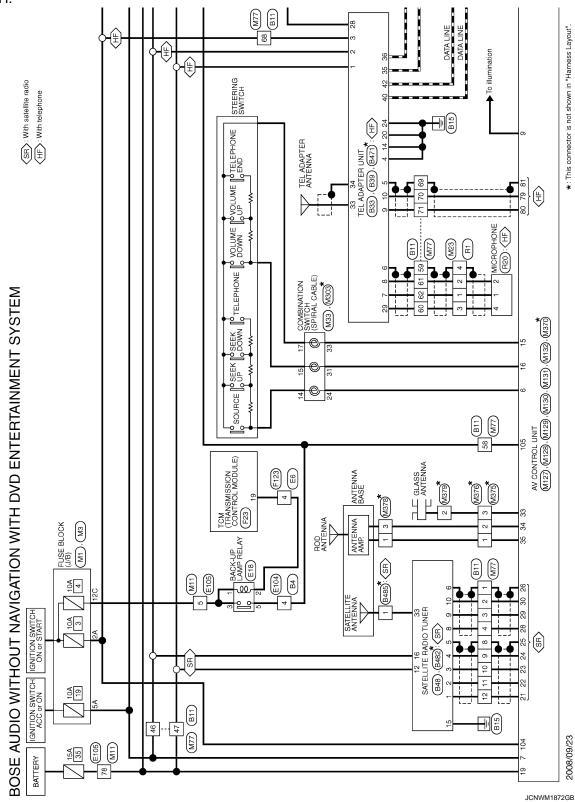
ΑV

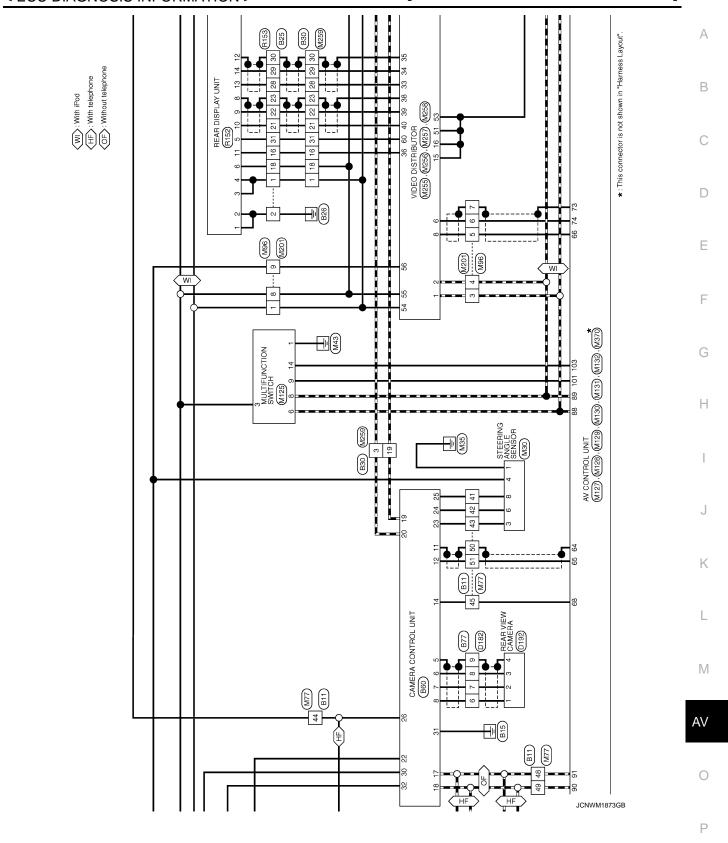
Terminal (Wire color)		Description		Condition		Reference value
+	_	Signal name	Input/ Output	Condition		(Approx.)
20 (Y/G)	Ground	RGB image signal (B: blue)	Input	Ignition switch ON	Rear seat remote controller operation when AUX or DVD image is displayed on rear display unit.	(V) 2 0 + 25 \(\mu\)s JSNIA1090ZZ
21 (Y/L)	Ground	RGB image signal (G: green)	Input	Ignition switch ON	Rear seat remote controller operation when AUX or DVD image is displayed on rear display unit.	(V) 1 0 **5ms JSNIA0984ZZ
22 (BR/L)	Ground	RGB image signal (R: red)	Input	Ignition switch ON	Rear seat remote controller operation when AUX or DVD image is displayed on rear display unit.	(V) 1 0 +-5ms JSNIA0984ZZ
23	_	Shield	_	_	_	_
24	_	Shield	_	_	_	<del>-</del>
27 (V)	25 (LG)	Headphone sound signal LH	Input	Ignition switch ON	Headphone sound output.	(V) 1 0 -1 → + 2ms SKIB3609E
28 (Y)	26 (BR)	Headphone sound signal RH	Input	Ignition switch ON	Headphone sound output.	(V) 1 0 -1 → +2ms SKIB3609E

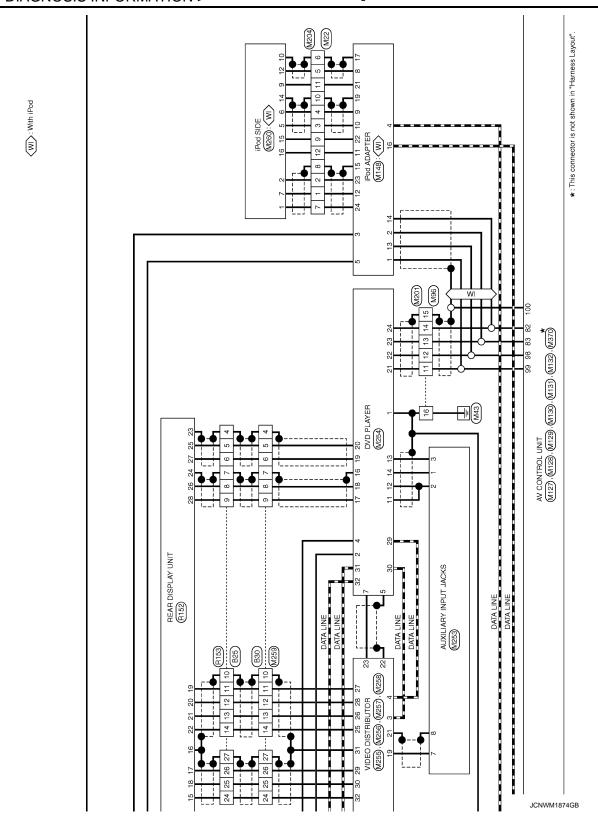
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAIN-MENT SYSTEM -

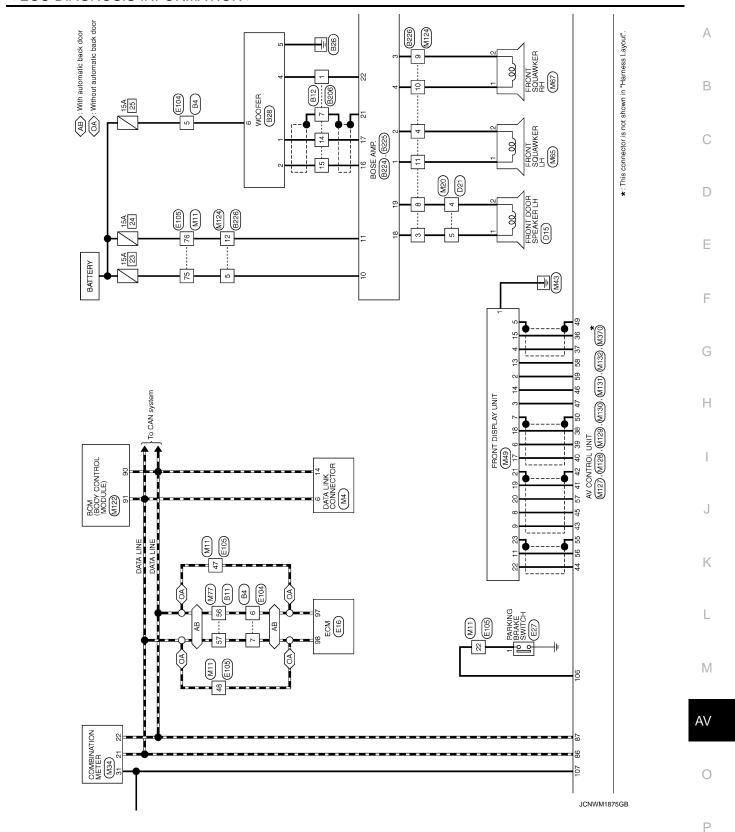
NOTE:

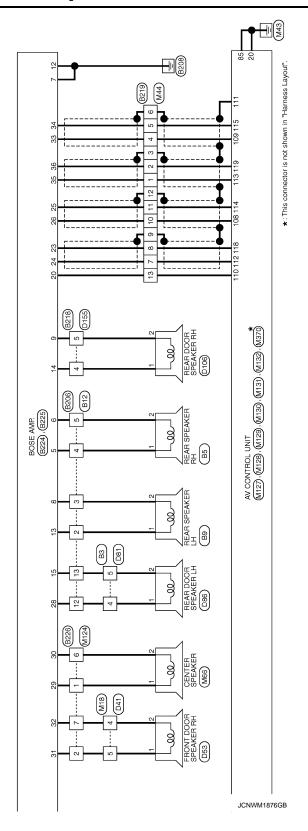
In this section, PRESET SWITCH and MULTIFUNCTION SWITCH are written as the MULTIFUNCTION SWITCH.











BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAINMENT SYSTEM	Connector No. B5 Connector Name REAR SPEAKER RH Connector Two TXPOSER	1	Terminal   Color   Signal Name [Specification]   1	r Name REAR SPI	l GR Signal Name [Specification]
BOSE AUDIO WITHOUT NAVIGATION 1 Connector No. 63 Connector Name WIRE TO WIRE Connector Type TK10FW-HS8  WARREST TO WIRE CONNECTOR TK10FW-HS8	18 17	of O	11 SB	Connector No.         B4           Connector Type         WIRE TO WIRE           Connector Type         N3 16MW-CS           (1.5)         1 2 3	Terminal   Color   Signal Name [Specification]

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BOS	SE AUL	<b>BOSE AUDIO WITHOUT NAVIGATION</b>	LIW.	TH DVI	WITH DVD ENTERTAINMENT SYSTEM						
Connector	tor No.	B11	•	44 BR		96	GR	_	4	SHIELD	-
0000	Connector Name	HAMBE TO WIBE		45 L		97	ď	-	5	W/R	-
	no Marine	אווער ו אווער		46 GR		86	LG	_	9	W/L	-
Connector	tor Type	TH80MW-CS19		-		66	0	_	7	SHIELD	-
Q.	•	ĺ	1	+	+				ω «	GR/V	1
手			1	48	-[With rear view camera without telephone]	N software No	or No	910	D 5	W/L	
H.S.	, .		ľ	ā		TO III OO	OI NO.	BIZ	2	SMICLU	
		S R C C C C C C C C C C C C C C C C C C		+		Connect	Connector Name	WIRE TO WIRE	= =	W/L	
			ľ	t		Connect	Connector Type	NS16FW-CS	13 2	2 /	
			<u> </u>	╀					2	BR/I	
			<u> </u> "	54 FG	- 5	13			91	>	1
Terminal	⊢		<u> </u>	┝		ŧ	L		82	0	1
No.	of Wire	ognal Name [opecincation]	Ľ	56 P	-	2		654 321	21	B/R	1
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2	В	-	ľ	58 R	2		=1	14 15 17 10 3	23	SHIELD	-
3	R/L		ľ	59 SHIELD	ELD -				24	В	-
4	R/W	ı	Ľ	9 09	-				52	R/L	1
2	SB		Ĺ	Н	7	Terminal	_	Simpl Name [Specifical	56	R/W	
9	Ь	1	Ĺ	62 R/W	- M	No	of Wire	oignal Name Lopecincation	27	SHIELD	-
_	>	1	Ľ	H	T	-	м	1	28	В	1
œ	SHIELD	1	Ľ	64 Y	1	2	SB	1	59	Μ	1
6	BR/L	1	Ľ	99 99	GR -	က	GR	1	30	SHIELD	1
10	5/X	1	Ľ	L		4	>		31	۵	1
Ξ	J/Y	1	<u> </u>	Г		S	FG	1			
12	M/L	1	<u> </u>	69 SHIELD	ELD -	7	SHIELD	1			
13	_	1		70 W/R		8	0	1	Connector No.		B28
14	BR	-	Ĺ	71 B/R		6	G	-	00000	Connector Name	adioow
15	SB	1		Y Y	-	10	BR	1	Colline	To rame	WOOLEN
16	BR	ı	Ĺ	L		Ξ	۵	1	Connec	Connector Type	RS06FGY-PR
17	۸	1		_	1	12	PΠ	1	ſ		
18	SB	-		75 L	-	13	0	-	F		
19	ч	_		76 G		14	W/R	-	<u> </u>		
20	Ф	-		Н		15	B/R	-	Ë	9	
21	LG	-		ŝ	ELD -						-
22	Μ	1		$\dashv$							
23	Υ	1	~	$\dashv$		Connector No.		B25			)
24	GR	1		81 R		Connect	Connector Name	WIRE TO WIRE		ı	
25	>	1		+					Terminal		Signal Name [Specification]
27	>	1	1	7		Connect	Connector Type	TH32MW-NH	N	or wire	
87	W/L	1	1	+		qĮ			-	W/K	SOUND SIGNAL WOOFER (=)
္က	١.	1	1	5 2		季			~	B/K	SOUND SIGNAL WOOFER (+)
5	0	1	1	+	- 8				4	3	WOOFER AMP. ON SIGNAL
35	BR	1		+			Ŀ		2	B/W	GND
34	SB	1	-~	88 G			1 2 3 4	6 / 8 9 10 11 12 13 14 15	9	0	BAT
32	SHIELD	-	-~	89 GR			17 18 15	18[19[20[21[22[23]24[25[26[27[28[29]30]31]32]			
36	٦/٥	1	"	7 06							
37	LG	1	-"	+			L				
40	>	1		92 BR		Terminal		Signal Name [Specification]			
41	0			$\dashv$		ŏ N	of Wire	Clean and a supplied a			
42	SB	-		94 V	/	-	SB	-			
43	ŋ			Н		2	В	-			

JCNWM3196GB

	А
SENSOR SIGNAL 1 SENSOR SIGNAL 2 SENSOR SIGNAL 3 SENSOR SIGNAL	В
N	С
20   G   24   S   S   S   S   S   S   S   S   S	D
12   14   16	Е
Signal Name [S]   Signal Nam	F
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Signal Name [Specification]  Signal Name [Specification]  AV COMM (4)  AV COMM (4)  AV COMM (1)  BATTERY  AND  SHELD   I	
	J
Connector No.   Color	К
_	L
Someton Name   Signal Name   Specification   Shifted   Signal Name   Specification   Shifted	M
AUDIO WITH    Ban   Ban   Ban	AV
Connector Name   Connector Name   Connector Name   Connector Name   Connector Type   Conn	0
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BOS	E AUD	BOSE AUDIO WITHOUT NAVIGATION	WITH DVD	/D ENTERTAINMENT SYSTEM					
Connector No.	or No.	B206	12	G - Connector No. B224		23	M/L	SOUND SIGNAL REAR LH (-)	
400000	Name Name	DOWN OF BOWN	13	V V	ą	24	GR/V	SOUND SIGNAL REAR LH (+)	
		אוויב ו פ אוויב	14			25	M/L	SOUND SIGNAL REAR RH (-)	
Connect	Connector Type	NS16MW-CS	12	SB Connector Type SGA12FBR-SJA2	3R-SJA2	26	GR/V	SOUND SIGNAL REAR RH (+)	
ď			17	-		28	G S	SOUND SIGNAL REAR DOOR SPEAKER LH (+)	
唐			18	GR B		29	>	SOUND SIGNAL CENTER SPEAKER (+)	
) II	U					30	а	SOUND SIGNAL CENTER SPEAKER (-)	
	_	1 2 3 4 5 6 7		1 1 1 2	12 1	31	BR	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)	
	Ι°	0 0 10 11 10 10 14 15 16	Connector No.	B219		32	Y S(	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)	
	<u>의</u>	9 10 11 12 13 14 13	Connector Mame	9 8 7	6 5 4 3 2 1	33	W/R	SOUND SIGNAL FRONT RH (+)	
			50			34	B/R	SOUND SIGNAL FRONT RH (-)	
			Connector Type	ype TH32MW-NH		35	W/R	SOUND SIGNAL FRONT LH (+)	
Terminal		Simal Name [Specification]	Į (	nal Color	Signal Name [Specification]	36	B/R	SOUND SIGNAL FRONT LH (-)	
No.	of Wire	financia con a constantina de la constantina della constantina del	厚	No. of Wire					
-	Α	-	Į.	1 LG SOUND:	SOUND SIGNAL FRONT SQUAWKER LH (+)				
2	GR	1	4	2 V SOUND	SOUND SIGNAL FRONT SQUAWKER LH (-)	Connector No.		B226	
8	BB	1		2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 3 L SOUND	SOUND SIGNAL FRONT SOUAWKER BH (-)		Γ		
4	>	1		۵	SOLIND SIGNAL FRONT SOLIAWKER BH (+)	Connector Name		WIRE TO WIRE	
- .	. [2				COURT OF ALL DEAD OF ALL DEAD		Т	00 00000	
n	ž	1		<u>-</u>	D SIGNAL REAR SPEAKER RH (+)	Connector Type	٦	NS12MBR-CS	
7	SHIELD	1		6 BR SOUNE	SOUND SIGNAL REAR SPEAKER RH (-)	þ			
80	ш	1	Terminal	Color 7 B	GND				
σ	Α		Š	L	SOLIND SIGNAL REAR SPEAKER LH (-)	Į			
ç	: >		-		C THE CHARLES COOL CAND INVOIS CIVILORS	2		,	
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12	5	1	က	=	BATTERY		븨		
13	œ	_	4	_	GND				
14	W/R	1	2	B/R - 13 GR SOUND	SOUND SIGNAL REAR SPEAKER LH (+)				
15	B/R	1	9	SHIELD - 14 L SOUND S	SOUND SIGNAL REAR DOOR SPEAKER RH (+)	Terminal	Color	9	
			7	- dB/V		No.	of Wire	olgnal Name [opecification]	
				- //M		-	>	1	
Connector No	l	0010	0	Book No Doorsell Door			. 0	1	
Dallie Co	ı	0710	n ;	COILIECTOI NO.		7	ř :		
Connect	Connector Name	WIRE TO WIRE	2 ;		AP.	,,	× ;	1	
	T					4	>	1	
Connector Type	╗	TK10FW-NS8	12	SHIELD - Connector lype   SCA19FBR-SGA4	3R-SGA4	so.	SB	1	
ģ			13	_		9	Д		
多			12	SS - SS		7	>	1	
ŧ			16			8	В	1	
į	40	878 513 13 13 13	17	R R	20 33130 28	6	7	1	
	2		18		0, 0, 00	10	۵	1	
	18 1/	17 16 15 14 13 12 11	20	27 20 25 24 25 27	3/22/21/20/19/18/17/16 15	=		1	
			3 8			:	3 8		
			8			7	5		
	L		20						
Terminal		Signal Name [Specification]	32	ral Color	Signal Name [Specification]				
No.	of Wire			No. of Wire					
-	Μ	•		15 R SOUND S	SOUND SIGNAL REAR DOOR SPEAKER LH (-)				
4	٦	-[With BOSE system]		16 B/R S	SOUND SIGNAL WOOFER (+)				
4	0	-[Without BOSE system]		17 W/R S	SOUND SIGNAL WOOFER (-)				
2	0	-[With BOSE system]		S W SOUND SI	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)				
ır	a/a	-[Without BOSE evetern]		ď	SOLIND SIGNAL FRONT DOOR SPEAKER I H (=)				
,				9	AMP ON SIGNAL				
.   ;	٥				AWIF. ON SIGNAL				
10	20 :			SHIELD	SHIELD				
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## **REAR DISPLAY UNIT**

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BOSE AUDIO WITHOUT NAVIGATION WITH DAYD ENTERTRAINMENT SYSTEM    Conventor Man	25 26 28 30 31 31 31 31 34 34 34 36 10 00mnetto	D
BOSE AUDIO WITHOUT NAVIGATION WITH DAYD ENTERTRAINMENT SYSTEM    Conventor Man	ve positioner] ive positioner] drive positioner] drive positioner]	Е
BOSE AUDIO WITHOUT NAVIGATION WITH DAYD ENTERTRAINMENT SYSTEM    Conventor Man		F
BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAINMENT SYSTEM  Conventor Na. Battle Conventor Name (Strengton Na		G
BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAINMENT Connector No. 1971  Connector No. 1971  The connector Type of 11450-18-110 of 11450-18-11		Н
BOSE AUDIO WITHOUT NAVIGATION WITH DVD Connector Name   Tel. ADAPTER UNIT   Connector Name    K th (with Book system)  (a) [	I	
BOSE AUDIO WITHOUT NAVIGATION WITHOUT Connector Name ITL ADAPTER UNIT  Connector Name ITL ADAPTER UNIT  Connector Name ITL ADAPTER UNIT  Terminal Color  Connector Name Sheerification In No. 33	Signal Name THOMPE THOMPE THOMPE THOMPE TO WIRE TO WIRE Signal IN Name Signal IN	J
BOSE AUDIO WITHOUT NAVIGATION  Connector Name IEL ADAPTER UNIT  Connector Name IEL ADAPTER UNIT  Signal Name (Specification)  3.3	Connector Name   Conn	K
JCNWM3199GB		L
JCNWM3199GB	HOUT NAVIG	M
JCNWM3199GB	100 WIT    E471   E471   E471   E471   E471   E471   E471   E471   E482   Sign   Sig	AV
	BOSE AUII Connector Name Connector Type  Terminal Color No. Connector Name Connec	0
	JCNWM31990	

Revision: 2009 September AV-295 2010 Murano

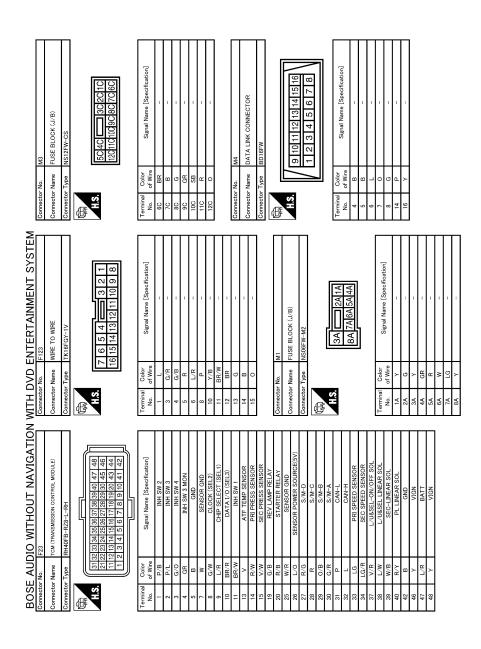
BOSE AUDIO WITHOUT NAVIGATION	WITH DVD ENTERTAINMENT SYSTEM		Connector No	D182	Connector No FR
Je	9	Conne	9	WIRE TO WIRE	ne
	П		П		П
Connector Type TK10MW-NS8	Connector Type NS02FBR-CS	Conne	Connector Type	TK12FW	Connector Type TK16MGY-1V
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			ه = <u>د</u>		
1 2 3 4 5 6 7 8 9 10			2	5 4 3 2 1	1 2 3 4 5 6 7
[11 12 13 14 15 16 17 18]	[21]			12 11 10 9 8 7 6	8 9 10 11 12 13 14 15 16
Terminal Color	Terminal Color	Terminal	inal Color		Terminal Color
		No.		Signal Name [Specification]	
1 W -	1 L		W	-	1 L
4 L -	2 W -	2	٦	_	3 Y -
		3	g	1	$\dashv$
7 LG -	١	4	$\dashv$		5 GR –
10 B –	Connector No. D155	9	В	_	- ^ 9
11 Y -	Consector Name MIDE TO MIDE	7	G	-	- Н
12 G –		80	В	1	10 W –
13 V –	Connector Type TK10MW-NS8	6	SHIELD	1	
14 P –	4	10	LG	_	12 BR –
Н	<b></b>	Ξ	Н	1	H
$\dashv$		12	G	1	$\dashv$
18 GR –	1 2 3 4 5 - 6 7 8 9 10				
	11 12 13 14 15 16 17 18	Conne	Connector No	D192	
Connector No.			Τ		
		Conne	Connector Name	REAR VIEW CAMERA	
Connector Name REAR DOOR SPEAKER LH (WITH BOSE SYSTEM)	Terminal Color	Conne	Connector Type	TH04MW-NH	
Connector Type NS02FBR-CS		ľ	1		_
4	1 W -		_		
修	4 L –	\ 	ا د		
	5 W =	<b>!</b>	5		
	7 LG –	_		1031	
10	10 B -	_		+ 0 7	
	$\dashv$	_			
	$\dashv$	 			
L	+	Terminal	inal Color	Signal Name [Specification]	
la	۵	No	┪		
No. of Wire	SB	1 T	۳ ا	CAMERA ON SIGNAL	
-	+	<u> </u>	+	GND	
	18 GK	<u>~</u>   ₹	SHEID	CAMERA IMAGE SIGNAL SHIFLD	
		-		סחובורה	

JCNWM3200GB

## **REAR DISPLAY UNIT**

[BOSE AUDIO WITHOUT NAVIGATION]

	А
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	_
WINE CSIG-M3 Signal Name (Specification)	Е
E105 TH70MW-CS.10-M3 TH70MW-CS.10-M3 Signal Name (S. Signal Na	F
	G
Commercing   1   1   1   1   1   1   1   1   1	Н
Connector Name   BACK-UP LAMP RELAY   Connector Name   BACK-UP LAMP RELAY   Connector Type   MS02FL-M2-LC   E   M   Signal Name   Specification	ı
EIS  EIS  BACK-UP LAMP RELAY  MS07-L-W2-LC  Signal Name [Specification]  EZX1  EZX1  EZX1  FETA  POTER-A  FIGURA  WIRE TO WIRE  NS16FW-CS  Signal Name [Specification]  7 6 5 4	
EINTERTAINME  EIS  BACK-UP LAMP RELAY  MS02FL-M2-LC  Signal Name (Spc  FEO  WIFE TO WIFE  NS16FW-CS  Signal Name (Spc  FIOH  FIOH  FIOH  Signal Name (Spc  Signal Name (Spc  Signal Name (Spc  FIOH  F	J
Connector Name Connec	K
	L
	M
E16 E10 MITHOU E16 E10	AV
	AV
BOSE ALCOMMENTON   Colorector Name   Colorecto	0
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JCNWM3202GB

# **REAR DISPLAY UNIT**

# [BOSE AUDIO WITHOUT NAVIGATION]

### < ECU DIAGNOSIS INFORMATION >

-	30SE A	<b>BOSE AUDIO WITHOUT NAVIGATION</b>	MITH	DVD E	WITH DVD ENTERTAINMENT SYSTEM						
ा	Connector No.	M11	67	œ	1	32	>-	1	45	1	
0	Connector Name	ne WIRE TO WIRE	89	≥ 0.	1 1	34	۳ 82	1 1	46	d >	
ျပ	Connector Type	be TH70FW-CS10-M3	70	. o	_	35	œ	-	51	- 0	Π
L	6		7.1	9	1				52	H	П
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BOSE AL	BOSE AUDIO WITHOUT NAVIGATION	_	VD EN	WITH DVD ENTERTAINMENT SYSTEM	14	GR	II LIMINATION CONTROL SWITCH (-)	56	9	1
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and a laborator of the	1		1	A	20	L >-	AMBIENT SENSOR GROUND	70	>	
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<u>ا</u>		Ě			22	a.	CAN-L	Connector No.		M49
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	9 10 11 12 13 14 15 16			31 32 33 34	52	BR	CHG	Connector Type	or Type	TH24FW-NH
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Terminal		Terminal	color		200	۵,	WASHER LEVEL SWITCH	手		
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t		t	╀	- [Mith andia atassis and talashana]	3 5	.   >	VEHICLE SPEED (2 FOLSE)		12 11	10 9 8 7 6 5 4 3 2 1
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T	Τ	25	t	-	34	9	FUEL LEVEL SENSOR			2 2. 2
3		56	SB	ı	32	Ī	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)			
4 SHIELD	- C:	31	H	-[With audio steering switch and telephone]	36	Г	SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)	Terminal	Color	3
9	,	31	Ė	[With audio steering switch without telephone]				Š.	of Wire	Signal Name [Specification]
λ /	1	32	SB	1				-	В	GND
8	1	33	7	-[With audio steering switch and telephone]	Connector No.		M44	2	<b>\</b>	BATTERY[With navigation system]
9 B	-	33	SB -[v	-[With audio steering switch without telephone]	Connect	Connector Name	ARE TO WIRE	2	Υ	INVERTER VCC[Without navigation system]
10 Y	1	34	>	-		П		က	œ	ACC[With navigation system]
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12 L	1		ſ		ģ			4	SHIELD	SHIELD[With navigation system]
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4	1	Connector Name		COMBINATION METER	SH			2	В	AUX IMAGE GND[With navigation system]
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ı		9	В	GROUND	∞	œ	1	12	٦	COMPOSITE IMAGE SIGNAL[Without navigation system]
la	Signal Name [Specification]	4	В	GROUND	6	SHIELD	-	17	g	RGB (R:RED) SIGNAL
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2 P	1	6	м	SW ILL POWER	12	SHIELD	1	19	В	RGB SYNC
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e SB	1	13	A IFF	ILLUMINATION CONTROL SWITCH (+)[With automatic drive positioner]	17	۳	1	23	SHIELD	SHIELD
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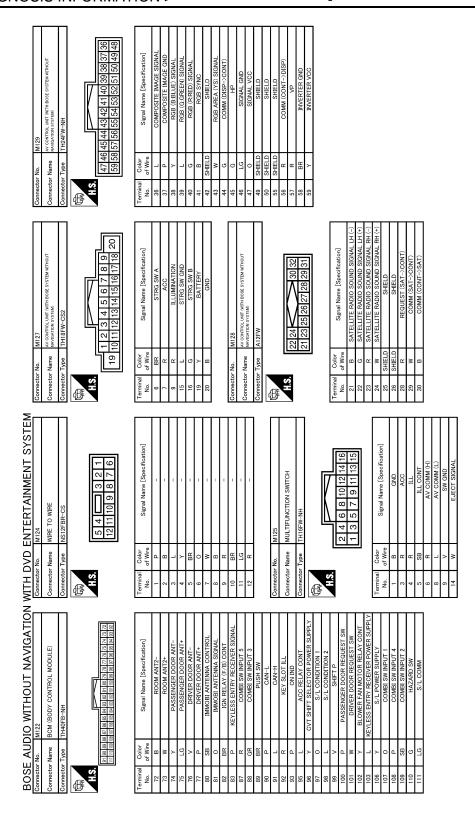
## **REAR DISPLAY UNIT**

# [BOSE AUDIO WITHOUT NAVIGATION]

### < ECU DIAGNOSIS INFORMATION >

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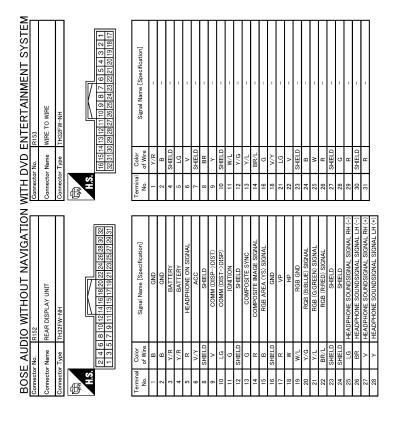
BOSE AUDIO WITHOUT NAVIGATION		WITH	DVD	ENTERTAINMENT SYSTEM		
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ı iil	NOI	Connector Name	r Name	AV CONTROL UNIT (WITH BOSE SYSTEM WITHOUT NAVIGATION SYSTEM)	5 T BATIERT	Connector Type THILIMW-INH
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œ	AUX IMAGE GND[Without DVD player]		돐		No.	of Wire	,
		ŀ	+	RGB AREA (YS) SIGNAL	- 0	> 1	1
N separate	7 2024	Signal Name [Specification]	g 6	COMPOSITE SYNC	,	2 2	1
	Т	2 00	35 SHIFLD		t in	Smille	
Connector Name	e DVD PLAYER	╀	t		9	>	1
Connector Type	TH32FW-NH	۸	38 SHIELD	SHIELD	7	SHIELD	1
þ		56 G IGNITION	39 ^	COMM (DISP->DIST)	8	В	-
修		_	40 LG	COMM (DIST->DISP)	6	9	1
S					10	SHIELD	1
2 4	16 8 10112 14 16 18 20 22 24 26 28 30 32	Connector No Moss	Connector No	M258	1 2	× ೮	1 1
	5 7 9 11 13 15 17	Т			13	7 -	1
		Connector Name VIDEO DISTRIBUTOR	Connector Name	VIDEO DISTRIBUTOR	14	2 02	
		Connector Type TH12FW-NH	Connector Type	TH24FW-NH	16	g	-
lal	Or Simul Name [Specification]	4	4		18	۸	1
No. of Wire		修	修		19	7	-
⊕ :		<u></u>	SH		21	P. P. P.	1
3 8	BALIERY		7	4 6 8 10 12 14 16 18 20 22 24	22	V SHIELD	
+		ŭ	-	3 5 7 9 11 13 15 17 19 21 23	24	B	1
5 SHIELD					25	M	1
7 P	DVD IMAGE SIGNAL				26	œ	1
11 B	Ц	le l	la l	Signal Name [Specification]	27	SHIELD	-
$\dashv$		of Wire	No. of Wire		28	g	-
+		51 B GND	<u>-</u>	AV COMM (H)	29	ж	1
1	AUX SOU		2 G	AV COMM (L)	30	SHIELD	I
풄	-		ec ec	AV COMM (H)	31	œ	1
+	T		+	AV COMM (L)			
8 6 2 >	HEADPHONE SOUNDSIGNAL SIGNAL LH (=)		Υ - • «	COMPOSITE IMAGE GND			
F	╈		╀	GOMPOSITE IMPAGE SIGNAL			
+	1		┨	255			

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tion]  toon system]  toon system]  tion]  (+)  ation system]  (f+)  ation system]  FR	А
Signal Name (Specification)  -[With telephone and navigation system) -[With telephone without navigation system)	В
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NA AMP.)  Predification)  B  B  B  B  B  B  B  B  B  B  B  B  B	Е
ASE (ANTEN	F
	G
	Н
Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]  WIRE  1-2/19P-HU  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]	I
Signal Name [Specification	J
WITH DVD ENTERTAINMENT SYSTEM  Connector Name (Avacancius system)  Connector Type (31350-2×15-HU  Signal Name (Specification)  Terminal Color (31351-2×15-HU  Connector Name (MBT)  Connector Name (MBT)  Connector Name (MBT)  Connector Name (MBT)  Connector Type (311351+2×15-HU  Connector Name (MBT)  Connecto	K
7	L
Piefgy     Piefgy   Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy   Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy   Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy   Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy   Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy     Piefgy	M
	AV
BOSE AUC   Connector Non-   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector No.   Connector Non-   Connector Type   C	0
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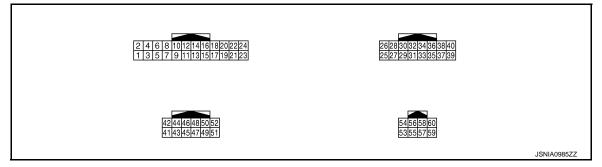
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# **VIDEO DISTRIBUTOR**

Reference Values

## **TERMINAL LAYOUT**



### PHYSICAL VALUES

	minal e color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
1 (R)	_	AV communication signal (H)	Input/ Output	_	_	_
2 (G)	_	AV communication signal (L)	Input/ Output	_	_	_
3 (R)	_	AV communication signal (H)	Input/ Output	_	_	_
4 (L)	_	AV communication signal (L)	Input/ Output	_	_	_
8 (L)	6 (R)	Composite image signal for AV control unit	Output	Ignition switch ON	When AUX or DVD image is displayed on front display unit.	(V) 0. 4 0 -0. 4 SKIB2251J
15 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
16 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
19 (G)	Ground	AUX image signal	Input	Ignition switch ON	When AUX image is displayed.	(V) 0. 4 0 -0. 4 -0. 4 -0. 4 -0. 4 -0. 4
21	_	Shield (AUX image GND)	_	_	_	
22	_	Shield (DVD image GND)	_	_	_	_

# [BOSE AUDIO WITHOUT NAVIGATION]

	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
23 (P)	Ground	DVD image signal	Input	Ignition switch ON	When DVD image is displayed.	0. 4 0 -0. 4 -40µs SKIB2251J
25 (R)	Ground	RGB image signal (R: red) for rear display unit	Output	Ignition switch ON	Rear seat remote controller operation when AUX or DVD image is displayed on rear display unit.	(V) 1 0 ***5ms JSNIA0984ZZ
26 (L)	Ground	RGB image signal (G: green) for rear display unit	Output	Ignition switch ON	Rear seat remote controller operation when AUX or DVD image is displayed on rear display unit.	(V) 1 0 + +5ms JSNIA0984ZZ
27 (W)	Ground	RGB ground for rear display unit	_	Ignition switch ON	_	0 V
28 (G)	Ground	RGB image signal (B: blue) for rear display unit	Output	Ignition switch ON	Rear seat remote controller operation when AUX or DVD image is displayed on rear display unit.	(V) 2 0 ++25 µs JSNIA1090ZZ
29 (R)	Ground	Vertical synchronizing (VP) signal for rear display unit	Input	Ignition switch ON	<u></u>	(V) 4 0 •••4ms SKIB3598E
30 (W)	Ground	Horizontal synchronizing (HP) signal for rear display	Input	Ignition switch ON	_	(V) 4 0 → 20µs SKIB0825E
31	_	Shield	_	_		_

### < ECU DIAGNOSIS INFORMATION >

# [BOSE AUDIO WITHOUT NAVIGATION]

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	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
					When AUX or DVD image is displayed on rear display unit.	0 V
32 (B)	Ground	RGB area (YS) signal for rear display	Output	Ignition switch ON	Rear seat remote controller operation when AUX or DVD image is displayed on rear display unit.	(V) 6 4 2 0 +-200µs PKIB4948J
33 (G)	Ground	Composite and RGB image synchronizing signal for rear display	Output	Ignition switch ON	When AUX or DVD image is displayed on rear display unit.	(V) 4 0 +-20µs SKIB0825E
34 (R)	Ground	Composite image signal for rear display unit	Output	Ignition switch ON	When AUX or DVD image is displayed on rear display unit.	(V) 0. 4 0 -0. 4 -40μs SKIB2251J
35	_	Shield	_	_	_	_
36 (G)	Ground	Ignition signal	Output	Ignition switch ON Ignition	_	0 V
				switch OFF	_	3.3 V
38	_	Shield	_	_	_	_
39 (V)	Ground	Communication signal (DISP→DIST)	Input	Ignition switch ON	Rear seat remote controller operation when AUX or DVD image is displayed on rear display unit.	(V) 6 4 2 0 1 ms
40 (LG)	Ground	Communication signal (DIST→DISP)	Output	Ignition switch ON	Rear seat remote controller operation when AUX or DVD image is displayed on rear display unit.	(V) 6 4 2 0 ++1ms PKIBS039J
51 (B)	Ground	Ground	_	Ignition switch ON	_	0 V

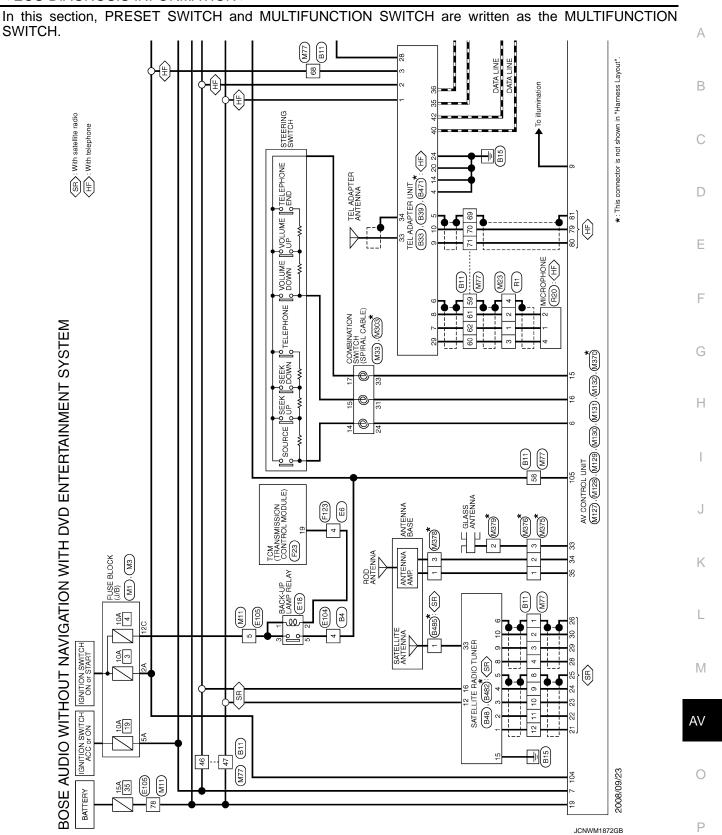
### < ECU DIAGNOSIS INFORMATION >

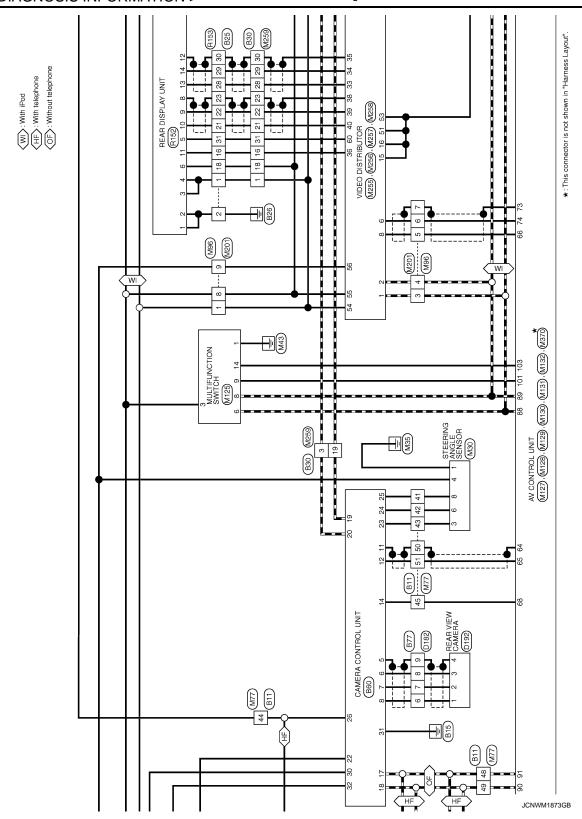
## [BOSE AUDIO WITHOUT NAVIGATION]

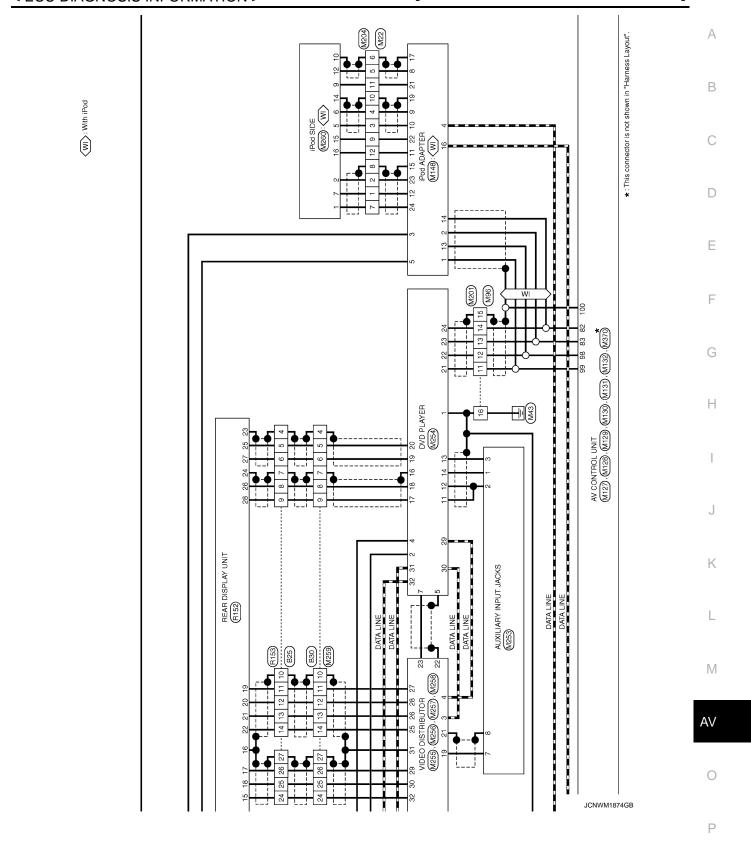
	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
53 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
54 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage
55 (V)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage
56 (G)	Ground	Ignition signal	Input	Ignition switch ON	_	Battery voltage
60		Headphone amp. ON sig-	0	Ignition	Headphone mode is ON.	4.5 V
(R)	Ground	nal	Output	switch ON	Headphone mode is OFF.	0 V

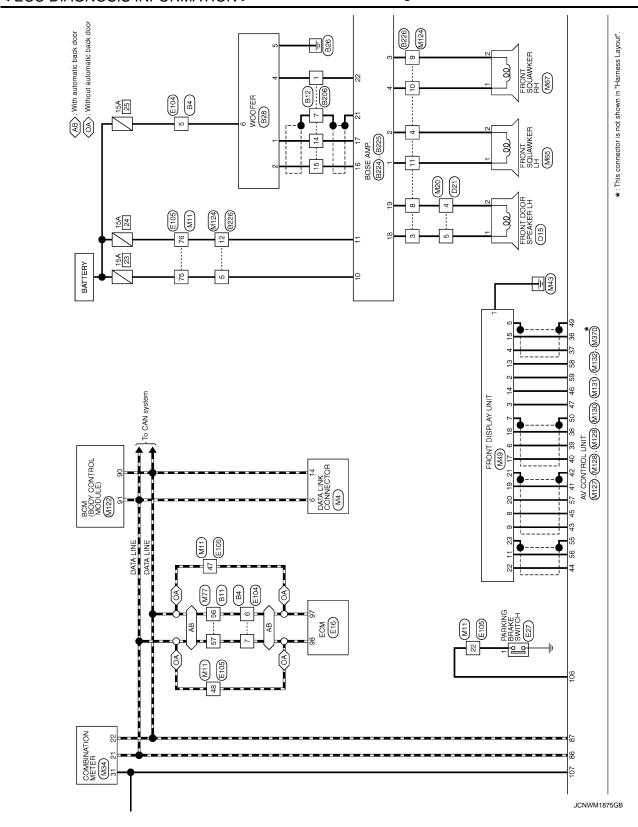
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAIN-MENT SYSTEM -

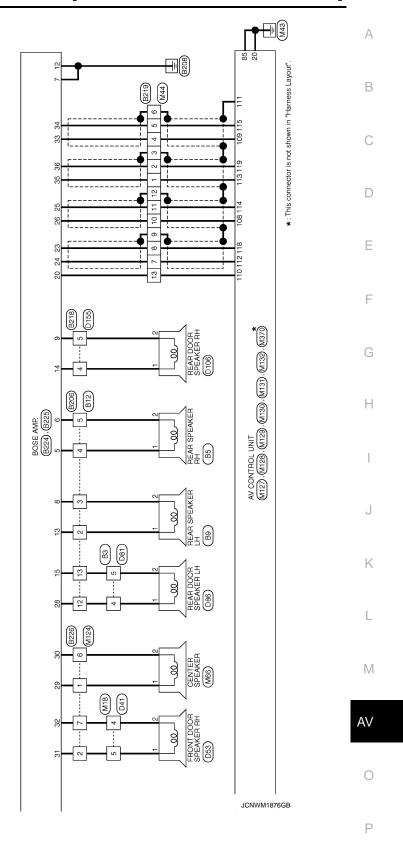
NOTE:

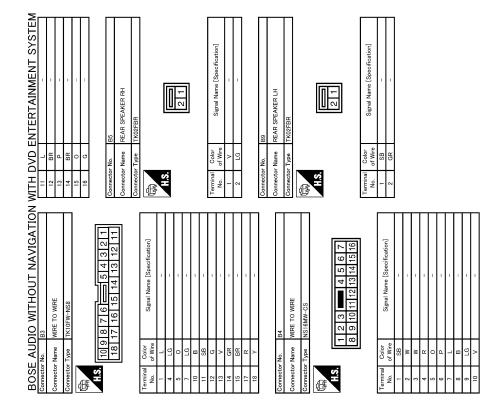












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[BOSE AUDIO WITHOUT NAVIGATION]

### < ECU DIAGNOSIS INFORMATION >

SHIFID		W/L -	GR/V	M/L	SHIELD -	M/L	- 5/X		BR/L -	^		B/R -			Shield		R/L -	R/W -	SHIELD -			SHIELD -				- N	Т	Name WOOFER	П	Type RS06FGY-PR			[		(2 4 6)	(135)				Signal Name [Specification]	2 10 10	1	1		B/W GND																							
4	2	9	- 00	0	10	11	12	13	14	16	18	21	22	23	62	24	52	56	27	28	29	30	31			N separated	Colliecto	Connector Name		Connector Type	ú	ß	ł	Ġ.H.					Terretoria	No	į,	-	7	4	2	9																						
											ſ	F	1	8	]			Lation																												13 14 15 16	5 27 28 29 30 31 32				cation]																	
ı	1	1 1					_					7 6 5 4 1	<u>'</u>	12 11 10 9				Signal Name [Specification]	oodol o m	-	1	1	1	,				1	1	_	1	1	ı	1					ш							7 8 9 10 11 12	23 24 25 26 27 28 3				Signal Name [Specification]	ı		,   														
					B12			NS16FW-CS				7 6 5 4	) ) )	16 15 14 13																							B25	Т	WIRE TO WIRE	THE MANAGEMENT	UNI-MINIZCU I			Ľ		3 4 5 6 7	17 18 19 20 21 22 23																					
F	${}^{\rm H}$	98 FG	1		Connector No.	Connector Name	OIIIIOCCO INGILIO	Connector Type			9	ė			_			Terminal Color				3 GR	H	+	۲	Ť	+	+	10 BR	11 P	12 LG	13 0	14 W/R	15 B/R			Connector No		Connector Name	Contractor Time	olillector Lype	Q.	華	SE SE		1	17 18				No of Wire		- 6	2														
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WITH DVD ENTERTAINMENT SYSTEM	1	1 1	-With rear view camera and telephone	ear view camera	1	1	1	1	-	ı	1	1	ľ	ľ		1	ı	1	1	1	1	ı	1	1				1	1	-	1	1	1	1	1	1	1					ı	1	1	1	1	ı	1																				
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H DVD	${}_{H}$	6 GR	╀	8 BR	П	S	П	2 B	_	H	55 BR	┝	┞	╀	7	T	+	┨	_	3 LG		H	H	╀	ť	Т	†	_	$\dashv$	73 LG	_	Г	Г	7 R	Т	T	3	$^{+}$	$^{+}$	93 PD	+	+	5 ;	+	$\dashv$		9 GR	┞	╁	+	+	+	- E	┨														
Z	45	46	48	4	4	2	2	9	5	<u>°</u>	<u>ا</u>	26	57	e e	1	60	8	9	9	63	9	ľ	1 "	1"	<u>'</u>	1	<u>'</u>		7	7	7	75	76				08	8 6	1	"l"	<u>"</u>	" "	S :	[∞]	87	8	88	96	ľ°	"[°	<u>"[</u> "	"[°	+6 -6	<u>"</u>														
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Revision: 2009 September AV-317 2010 Murano

BOSE AUDIO WITHOUT NAVIGATION	_	TH DVD E	WITH DVD ENTERTAINMENT SYSTEM					
Connector No. B30	္ပ	Connector No.	B33	Connector No.	or No. B48	8		
Connector Name WIRE TO WIRE	8	Connector Name	TEL ADAPTER UNIT	Connector Name		SATELLITE RADIO TUNER	22 R REVERSE	
Connector Type TH32FW-NH	8	Connector Type	TH08FW-NH	Connector Type	Т	A16FW	SB	
	] ]	1		ą	1		0	
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ES.		H.S.		H.S.	,	0111111	30 GK ACC	
16 15 14 13 12 11 10 9 8 7 6 5 4 3	654321		35 37 39 41		_	7 0 0 10 14	/8 ^	
32 31 30 29 28 27 26 25 24 23	22 21 20 19 18 17		36 38 40 42		ာ -	11016976		
							Connector No.   B77	
Terminal Color Simal Name [Snecification]		la l	Signal Name [Specification]	Terminal	⊢	Signal Name [Specification]	Connector Name WIRE TO WIRE	
of Wire		No. of Wire	Figure 1 control of the control of t	No.	of Wire	Figure 1 and	П	
+		+	AV COMM (H)	-	J/W.	SOUND SIGNAL LH (=)	Connector lype IK12MW	
2 0 0		30 PK	AV COMM (E)	7 6	1/4	SOUND SIGNAL LH (+)		
W/R		Ŧ	AV COMM (L)	9	BR/L	SOUND SIGNAL RH (+)		
Г		$\mathbf{I}$		2	SHIELD	SHIELD	1 2 4 5	
H				9	SHIELD	SHIELD	;	
- GR/V -	· Co	Connector No.	B39	8	R/W	REQUEST (SAT->CONT)	/ 0 3	
- 6 M/L		Connector Name	TEL ADADTER LINIT	6	R/L	COMM (SAT->CONT)		
-		$\neg$		10	В	COMM (CONT->SAT)		
		Connector Type	TH32FW-NH	12	>	BATTERY	lal	
		Á		12	В	GND	No. of Wire	
Y/L		Œ.		16	GR	ACC		
14 BR/L –		S II					2 P –	
+							3 L –	
			3 10 12 14 16 18 20 22 24 26 28	Connector No.	or No. B60	0	Α.	
- GR		135		Connector Name		CAMERA CONTROL UNIT	6 R/L –	
1					П		7 R/W –	
┪				Connector Type		TH32FW-NH	1	
SHIELD		la l	Signal Name [Specification]	ą			က်	
8 6		No. of Wire	The second of the	手			<b>M</b> (	
23 K/L		+	BALIERT	3		[	+	
W/W		2 GR	ACC		2 4 6	8 110 12 14 16 18 20 22 24 26 28 30 32	- A 71	
T		+	COND		3	13 15 17 19 21 23 25 27 29		
3 ≥		5 SHIFLD	SHELD					
SHIELD		6 SHIELD	SHIELD					
۵		7 R/W	MICROPHONE SIGNAL	Terminal	⊢	2		
		8 R/L	MICROPHONE GND	No.	of Wire	Signal Name [Specification]		
		9 B/R	TEL VOICE SIGNAL (+)	æ	SHIELD	SHIELD		
		10 W/R	TEL VOICE SIGNAL (-)	9	В	CAMERA IMAGE SIGNAL		
		14 B	GND	7	R/W	GND		
		20 B	CONTROL SIGNAL	∞	R/L	CAMERA ON SIGNAL		
		24 B/W	CONTROL SIGNAL	Ξ	SHIELD	SHIELD		
		Н	VEHICLE SPEED (8-PULSE)	12	В	CAMERA IMAGE SIGNAL		
		29 B	MICROPHONE VCC	14		CONNECTION RECOGNITION		
				11	BR	AV COMM (L)		
				18	>	AV COMM (H)		
				5	GR.	AV COMM (1)		

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[BOSE AUDIO WITHOUT NAVIGATION]

BOSE	BOSE AUDIO WITHOUT NAVIGATION	VIGATION WITH DVD	DVD ENTERTAINMENT SYSTEM			
Connector	Т	12	0 0		23 W/L SOUND SIGNAL REAR LH (-)	
Connector Name	r Name WIRE TO WIRE	13	> a	Connector Name BOSE AMP.	GR/V	
Connector	r Type NS16MW-CS	15		Connector Type SGA12FBR-SJA2	1 >	
Œ		17	R = -	匮	Ø > 0	_
H.S.	3 - 4 5		N	H.S. [14] 12 11 10	30 P SOUND SIGNAL CENTER SPEAKER (*) 31 BR SOUND SIGNAL FRONT DOOR SPEAKER RH (+)	
	8 9 10 11 12 13 14 15	16 Connecto	le l	987654321	++	
		Connector Type	tor Type TH32MW-NH		W/R	
Terminal No.	Color Signal Name [Specification]	tion]		Terminal Color Signal Name [Specification]	B/R	
		H.S.		-	0 11 00000	
3 8	GR BR	 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	3 L SOUND SIGNAL FRONT SQUAWKER LH (=)	Т	
4			17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	۵		
ç	SHEID	T		6 BR SOUND SIGNAL REAR SPEAKER RH (+)	Connector Type NS12MBR-CS	
. 80	- 8	Terminal	-	ш	修	
6 0	M 2	oN .		7	S.	
= =	> 0.	-  ~	B/B	10 SB BATTERY	1 2 3	
12		8	SHIELD	GR	[6] 7 [8] 9 [10] 11[12]	
13	١ -	4	W/R -	В		
14	W/R	TO G	B/R	13 GR SOUND SIGNAL REAR SPEAKER LH (+)	Tourises	
2			Shieed GR/V	SOUND SIGNAL REAR DOOR STEE		
		. 8	//M		Ħ	
Connector No.	r No. B218	6	0	Connector No. B225	2 BR –	
Connector Name	r Name WIRE TO WIRE	2 =	GR/V -	Connector Name BOSE AMP.	3 × ×	
Connector Type	r Type TK10FW-NS8	12	SHIELD -	Connector Type SCA19FBR-SGA4	5 SB -	
ą	1	13	SB -	1	- d.	
厚		15	SB >		+	
Y.S.	109876 543	21	- &	(37) 36  35  34  33	- l	
	7 16 15 14 13	11		25 24 23 22 21 20 19 18 17 16	- 10 P	
		30 23	2 a.		11 LG 12 GR	
		31	- ^	L		
Terminal No.	Color Signal Name [Specification]	tion] 32	BR	Terminal Color Signal Name [Specification]		
-				t		
4		اء ا		B/R		
4 rc	O -[With BOSE system]	[me		17 W/R SOUND SIGNAL WOOFER (-) 18 W SOUND SIGNAL FRONT DOOR SPEAKER I H (+)		
2		am]		- B		
7	0 0			20 SB AMP. ON SIGNAL		
= =				w WOOFER		
JC						
CN\						
WM						
1319						
98G						
В						
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JCNWM3199GB

			А
E6   WIRE TO WIRE   TKIEMGY-1V	Signal Name (Specification)		В
	O B B C × C C B × C C B × C C B × C C B B C C B A C C B B C C B A C C B C B		С
Connector Nar Connector Typ	No.		D
T   T   T   T   T   T   T   T   T   T	pecification] pecification SignAL E SignAL D		Е
TO WIRE 4 3 1110 9 8	Signal Name (Specification)		F
9 0			G
	Commetter Name   Comm		Н
WITH DVD ENTERTAINMENT SYSTEM Connector No. D106 Connector Name Read DOOR SPEAKER RH (WITH BOSE SYSTEM) Connector Type INSQFBR-CS  H.S.	Signal Name [Specification]		I
ENTERTAIN DIOG READ DOOR SPEAKER R NSOZEBR-CS			J
	Color   No.   Olivire   Oliv		K
SATION III	STEAN CONTRACTOR OF THE CONTRA		L
OUT NAVIO	Signal Name [Specification]	_	M
DDIO WITH D81 WIRE TO WIRE TK100MV-NS8 2   3   4   5		F	٩V
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Contract Name   Exercise   Contract Name   Contr	Connector Name   Excitation   Connector Name   Connector N	BOSE AUDIO WITHOUT NAVIGATION	(TION WITH DVD ENTERTAINMENT SYSTEM	2 SB	1	30	>	1
Secretary House   Connector Name   Con	Contract of the contract of			3 F	1	47	۵	1
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Signate   Signature   Signat	Control   Cont	Connector Type RH24FB-RZ8-L-LH	П	H	1	49	SB	1
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Signal Many (Specific (19))   Fig. 10   Fig.	Control of the Notice of the			J L	ı	15	57	П
Signate   Control of the control o	Signature   Convector law			H	1	25	>	1
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Signal Name (Societation)   The Societation   The Societation   Signal Name (Societation)   The Societation   The Soci	Signal based   Societation	82 86 90 94 98 102 106 110	E. C.	H	1	54	æ	1
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MANCOLANES  2   R	MAYOCI -MASI   2   R		1 LG -	19 J	ì	63	0/7	-
MANCH-ANST   S   LG       Connector No.   E   LOS	Connector No.   Color. Appg.   Col		В			64	SHIELD	
Convector Name   Conv	Connector No.   Connector No		LG			99	Μ	1
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Connector Name   Connector Type   Conn	Connector Name   Conn			Connector Name	WIRE TO WIRE	89	>	1
NUCCE-THESE   Cornector Name   PARKING BRAKE SMITCH   NUCCE-THESE   Cornector Name   PARKING BRAKE SMITCH   NUCCE-THESE   Cornector Name   PARKING BRAKE SMITCH   NUCCE-THESE   NUCCE-	Connector No.   Connector No					69	SB	ı
Connector Name   Conn	Connector Name   Conn			Connector Type	TH70MW-CS10-M3	70	GR	1
Auto-Secretary   Auto	Marco2=PTRES			ģ		17	SB	1
Connector Type   Pointer Connector Type   Table Type   Pointer Connector Type   Table Type	Connector Type   Conn		П	彦		72	>	1
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NEW TAPES   NEW	Connector Name   Color   Connector Type   Connector Typ		]			79	>	1
Connector Name   Color   Col	Color   Colo			7		8	œ	1
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Sample   No. of Wire   Connector No. of Wire   Conne	Sample   No. of Wire   No. o		Color	+	1	82	EG LG	1
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GND	Connector No   E 104   11   P   C C C C C C C C C C C C C C C C C				_			
COND   Connector No.   E104   11   P   12   CONDESTOR   CONNECTOR WIRE TO WIRE   CONNECTOR Name   WIRE TO WIRE   CONNECTOR Name   WIRE TO WIRE   CONNECTOR Name   CONNECTOR NA	COND   Connector Name   WIPE TO WIPE   11   P   12   L			Н	-			
Connector No.   E104	Connector No.   E104			-	-			
Connector Name   WIRE TO WIRE   12   L	BNCSW GND   Connector Type   NIS16TW-CS   12   L				1			
GND   Connector Type   MISTGFW-CS   14   9   14   15   15   14   13   15   14   15   14   13   15   11   10   9   8   15   15   15   14   13   15   11   10   9   8   15   15   15   15   15   15   15	GND   Connector Type   MIST OF MIN.   13 Y   14   15   15			12 L	-			
Connector Type   NS16FW-CS   14   0	Connector Type   NS16FW-CS   15 BR   20			_	ľ			
15   BR   15	15 BR   16   15   14   13   12   11   10   9   8   2   1   22   P   24		Г	L	1			
T   6   5   4     3   2   1     22   P     22   P     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24     24	7 6 5 4     3 2 1   22   P   22   P   22   P   23   Color     16 15 14 13 12 11 10 9 8   23   P   25   O   25   O   Color     Color   Signal Name [Specification]   28   SB   W   29   W   20	1	┝	ı				
T 6 5 4     3 2 1   2 2   P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2 P   2	7 6 5 4   3 2 1   2 2   2   2   2   2   2   2   2			┝	i			
7 6 5 4     3 2 1     22 P     24     10 9 8     24 P     24 P   24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P     24 P	7   6   5   4     3   2   1     22   P     23   P     24     24     24     24     24     24     24     25   P     24     24   24     25   25   0   25   25   25   25   2			┝	ī			
16   15   14   13   12   11   10   9   8   23   P   L   25   D   25   D   26   C   26   C   26   C   27   V   V   29   C   29   29	16   15   14   13   12   11   10   9   8   23   P   25   0   25   0   25   0   25   0   25   0   25   0   25   0   25   0   25   0   25   25		7654	H	1			
10   13   14   13   12   11   10   9   8   24   L	10   13   14   13   12   11   10   9   8   24   L   25   Color   Signal Name [Specification]   27   V   27		1 0	L	1			
25   0   26   0   0   0   0   0   0   0   0   0	Color Signal Name [Specification] 28 SB Y Z9 W		901	24 L	1			
26   G   Color   Signal Name [Specification]   27   V   Y   Y   Y   Y   Y   Y   Y   Y   Y	Color   Signal Name [Specification]   26   G			H	1			
Color   Signal Name [Specification]   27   V     29   Signal Name   Specification   29   Signal Name   Signal Name   Specification   29   W   Signal Name   Specification   20   W   Specification	Color         Signal Name [Specification]         27         V           of Wire         28         SB           Y         29         W			Н	1			
of Wire Signal Name Libecincation] 28 SB	of Wire Signal Name Lybermoatoon 28 SB Y		Color	H	ſ			
M 62	Y = 29 W		of Wire	╀				
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Connector No.   M3	n] Terminal Color Signal Name [Specification] No. of Wire	H	+	280	H	Н			Ī	Connector No. M4	Connector Name DATA LINK CONNECTOR	П	Connector Type BD16FW	ά	医		9 10 11 12 13 14 15 16	12345678	1		Terminal Color	_	4 B =		- 7 9		8		- 16 Y				1	T	
MITH DVD ENTERTAINMENT ST   Connector Name   WIRE TO WIRE	of Wire Signal Name [Specification]	- 1	G/R -	1 1		- L		BR/W -	BR -	$\dashv$	п В	- 0		ı	Connector No. M1	Connector Name FUSE BLOCK (J/B)	Т	Connector Lype NS06FW-M2			3A T 12414	7 6 4	8A 10000 40	]		_	of Wire	٠ -	- 9	$\dashv$	GR -	4	+	- I'G	, I
PAGE   PAGE	r Signal Name [Specification] Terminal No.		INH SW 3	INH SW 3 MON	GND	SENSOR GND		CHIP SELECT (SEL1)	DATA I/O (SEL3)	INH SW 1	ATF TEMP SENSOR		S	REV LAMP RELAY	STARTER RELAY	SENSOR GND	SENSOR POWER SOURCE(5V)	S/M-D		9-M/S		CAN-H	PRI SPEED SENSOR	R SEC SPEED SENSOR	1	L/U&SEL LINEAR SOL Te	SEC-LINEAR SOL	PL LINEAR SOL			BATT	VIGN 5A	6A	A/	8A
BOSE AU Commetter No. Commetter Name Commetter Type	Terminal Color No. of Wire	1 P/B	2 P/L	3 6/0	. S	7 W	8 G/W	H	10 BR/R	11 BR/W	$\dashv$	ᅥ	H	+	+	+	$^{+}$	_	$^{+}$	30 6/8	t	32 L	33 LG	34 LG/R	37 V/R	38 L/W	$\dashv$	40 R/Y	42 B	46 Y	47 L/R	48 ≻			

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The property county   The property   The prop	Sector No.		6	4 3		200	- 0		2 4		
Third Propertion of the control of	Connector Name	WIRE TO WIRE	80 69	s 0.		34 53	7 8%		£ 65	> ۲	1 1
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Convector Vano Name (Societation)   72   118   11   12   12   13   14   14   14   15   14   14   15   15	q		71	Ð	1				52	GR	-[With automatic drive positioner]
Convector Name   Conv	<b>-</b>		72	BB	1	Ĺ			52	œ	-[Without automatic drive positioner]
1   1   1   1   1   1   1   1   1   1	V.		73	_	1	Connect		M20	53	_	-[With automatic drive positioner]
Control of Part   Par	1		74	>	1	Connect		WIRE TO WIRE	23	> !	-[Without automatic drive positioner]
Color   Colo			12	H I	-		T		54	g ,	-[With automatic drive positioner]
1		1 Z	9/	<u>-</u>	-	Connect	П	TH40MW-CS15	24	9	<ul> <li>-[Without automatic drive positioner]</li> </ul>
Control   Coltan			77	g	1	q	•		22	SB	-[With automatic drive positioner]
Control   Cont	- 1-		8	>	1	手			22	0	-[Without automatic drive positioner]
Converted No.   Converted No			79	5 c	-	F S	Ŀ	9			
Convector Name   Conv	Ť		8 8	2 3			_		,	No.	COM
Controller Name   Controller Name   Colore   C	10		5 8	3			27.28.29			2	141.2.2
Conventor Name   Conv	. 0		8	0					Connecto	or Name	WIRE TO WIRE
Convertor No.   Convertor No	0	1							Connecto	or Type	TH12FW-NH
F   F   F   F   F   F   F   F   F   F	g	ı				Termina	╙	3	֓֞֞֜֜֜֜֜֜֓֓֓֓֓֓֓֓֜֜֟֜֓֓֓֓֓֓֓֓֓֓֜֜֜֜֜֜֓֓֓֓֜֜֜֜֡֓֓֓֡֓֜֜֡֓֜֡֓֜֡		
Fig. 1   Connector Numerical Nife E to Nife	~	1	Connec	tor No.	M18	Š.	of Wire	olgnal Name [opecification]	B		
Y   Y   Y   Y   Y   Y   Y   Y   Y   Y	۵	-	0	Now Momo	DOWN OF DOWN	-	>	1	Į.		7
Y   Y   Commenter Type   Th40MM-CS15   A   B   B   C   C   C   C   C   C   C   C	Т		500	no Maille	MINE I O MINE	2	ŋ		110	_	
No.		_	Connec	tor Type	TH40MW-CS15	3	W				4 3
Fig. 10   Fig.			4			4	В				10 9 8
Fig. 10   1   2   3   4   5   6   7   8   9   10   11   12   13   4   5   6   7   8   9   10   11   12   13   4   5   6   7   8   9   10   11   12   13   4   5   6   7   8   9   10   11   12   13   4   5   6   7   8   9   10   11   12   13   4   5   6   7   8   9   10   11   12   13   4   5   6   7   8   9   10   11   12   13   4   5   6   7   8   9   10   11   12   13   4   5   6   7   8   9   9   11   12   13   4   9   9   9   11   12   13   4   9   9   9   9   9   9   9   9   9	œ	-	F			5	٦				
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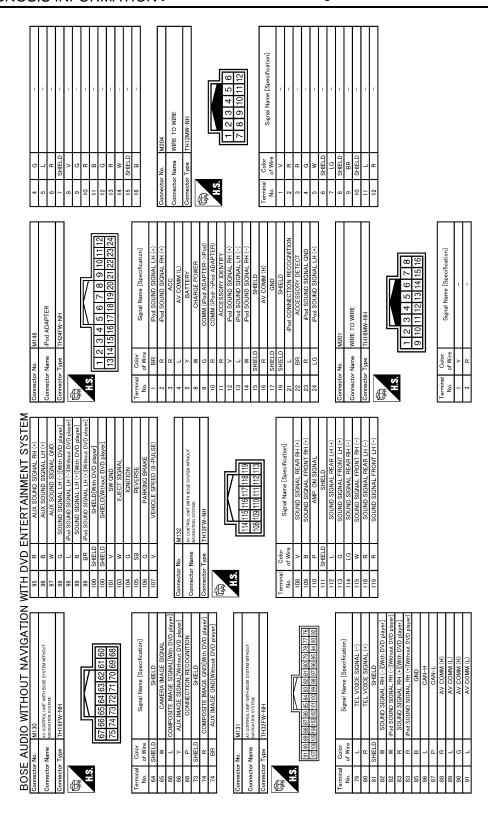
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Y AMBIENT	L   L   L   L   L   L   L   L   L   L	R   WASHER LEVEL SWITCH   TLS   TL	fector No.	HS   Color Ostro E   A   P   Color Ostro E   Color Ostro E   Color Ostro E   A   P   Color Ostro E   Color Ostro E   Color E	Compose   Comp	SHIELD SHIELD	
Connector Type TK08FGY-1V	H.S. 242526 31323334	of Wire BR W	31   G	me COMBINATION METER PP TH40FW-NH  2.3 4 15 6 7 8 9 10111213141516171819		ILLUMINA  REFIER C  METER R  METER R  EN  SM  METER R  EN  SM  METER R  EN  SM  METER R  EN  METER R  EN  METER R  METER R  EN  METER R  M  METER R	
Connector Name WIRE TO WIRE Connector Type TH16MW-NH	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Terminal   Color   Signal Name [Specification]   No. of Wire   No.   N	6 4 SHELD  7 7 7 7 8 10 10 10 10 11 11 12 12 11 12 11 12 11 12 11 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12	13   SB	1	Terminal Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   2   P	

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	25 Y	1	83	3 M	-[With automatic drive positioner]		
	27 Y	-	8	3 GR	-[With driver side power seat]		
	28 R	-	∞	H			
-	L		85	L	-[With front heated seat and passenger side power seat]		
7	31 M	1	~	S GR	-[With front heated seat without passenger side power seat]		
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жтнолт 38 37 36 50 49 48	ification]  E SIGNAL  SERVAL  SIGNAL  SIGNAL  CONT)  DD  CO  CO  CO  CO  CO  CO  CO  CO  CO	А
NH NH 13 42 41 40 39	Signal Name (Specification) COMPOSITE IMAGE SIGNAL COMPOSITE IMAGE SIGNAL RGB (BBLUE) SIGNAL RGB (RRED) SIGNAL RGB (RRED) SIGNAL RGB RRED) SIGNAL COMM (SISS->CONT) HP SIGNAL CND SIGNAL CN	В
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MI27 W CORTROL UNT WITH BODG ENSTEAN WITHOUT NAVALUDUR STEAN THISPW-CS2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Signal Name (Specification)  STRO SWA ACC ILLUMINATION STRO SW BOD	F
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ENTERTA M124 WIRE TO WIRE INSIZEBR-CS 5 4	Signal Name (Spending Name)  MULTIFUNCTION SWITCH  THIGHW-NH  THIGHW-NH  AV COMM  AV	J
H DVD ector No. ector Name ector Type	1	K
z		L
AVIGATI	Signal Name (Specification)  ROOM ANT2- ROOM ANT2- ROOM ANT2- ROOM ANT2- ROOM ANT3- PASSENGER DOOR ANT- DRAYER BOOR ANT- CAN-I COMBI SW INPUT 3 S'L COMBITION 2 S'L CONDITION 2 S'L CONDITION 2 S'L CONDITION 1 S'L CONDITION 2 S'L CONDITION 2 S'L CONDITION 2 S'L CONDITION 3 S'L COMBIS SW INPUT 1 COMBIS SW INPUT 1 COMBIS SW INPUT 2 HAZARD SW S'L COMM S'L COM S'L COMM S'L COM S'L COM S'L COM S'L COM S'L COM S'L COM S'L C	
OUT NA DNTROL MOD SEE	Signal Name (Specification)  Signal Name (Specification)  ROOM ANTZ- ROOM ANTZ- ROOM ANTZ- ROOM SITZ- ROOM SITZ- BARKER DOOR ANT- BARKER DOOR ANT- INMOSI ANTENNA CONTRO INMOSI ANTENNA CONTRO INMOSI ANTENNA CONTRO COMBIS WI INPUT 5 COMBIS WI INPUT 5 COMBIS WI INPUT 7 COMBIS WI INPUT 7 SALC ONDITION 1 SALC CONDITION 2 SALC CONDITION 3 SALC CONDIN	M
BOSE AUDIO WITHOUT NAVIGATIO  Connector No. M122  Connector Name BCM (BODY CONTROL MODULE)  Connector Type TH40FB-NH  H.S. F.	Signal Name [Specification]  ROOM ANTZ- ROOM ANTZ- ROOM ANTZ- PASSENGER DOOR ANT- PASSENGER DOOR ANT- DRIVER DOOR ANT- IMMOBI ANTENNA SIGNAL. COMBIS WINPUT 3 COMBIS WINPUT 1 S-L CONDITION 1 COMBIS WINPUT 1 COMBIS WINPUT 1 COMBIS WINPUT 1 COMBIS WINPUT 2 HAZARD SW S-L COMMIN	AV
BOSE AUDIC Connector No. MIT Connector Name BOSE Connector Trype TTH TRY	C   C   C   C   C   C   C   C   C   C	
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16   B   SHELD   SHELD	
Connector No.   M237   Connector No.   M237   Connector Name   VIDEO DISTRIBUTOR   Connector Type   TH16FW-NH   Connector Type   TH16FW-NH   Connector Name   VIDEO DISTRIBUTOR   VIDEO	
WITH DVD ENTERTAINMENT SYSTEM   WITH DVD ENTERTAINMENT SYSTEM   22   B   SOUND SIGNAL LH (+)   23   R   SOUND SIGNAL LH (+)   24   W   SOUND SIGNAL RH (+)   25   R   SOUND SIGNAL RH (+)   30   R   AV COMM (L)   31   AV COMM (L)   AV COMM	
BOSE AUDIO WITHOUT NAVIGATION	JCNWM3208GB

BOSE AUDIO WITHOUT NAVIGATION	WITH DVD ENTERTAINMENT SYSTEM		
Connector No. M260	Connector No. M370		la
Connector Name iPod SIDE	Connector Name AV CONTROL UNIT (WITH BOSE SYSTEM WITHOUT NAVIDATION SYSTEM)	3	No. of Wire
Connector Type IP16FGY	Connector Type GT13SC-2/1S-HU		2 SHIELD -[With telephone and navigation system]
4		Ī	2 R/L -[With telephone without navigation system]
CHATA .	<u>"</u>	Т	3 B
1.5.	H.S.	Connector Name ANTENNA BASE (ANTENNA AMP.)	8/L
0, 0,	34	Connector Type GT13SSN-1/1PP-HU	7 Y/R
2		1	8 B/Y -
	3	唐	- 8 B
⊢	- 0	HS.	> 0
Signal Name [Specification]   No.   of Wire   Signal Name [Specification]	I erminal   Color   Signal Name [Specification]   No. of Wire	_	13 B
t	t		╀
	-		H
œ	35 – ANTENNA AMP. ON SIGNAL		16 R –
6 G COMM (iPod ADAPTER->iPod)		Terminal Golor Signal Name [Specification]	
٩	Connector No M375	+	Connector No B20
SHIELD	т	1	ı
W	Connector Name WIRE TO WIRE		Connector Name MICROPHONE
14 SHIELD SHIELD	Connector Type GT13SH-2/1S-HU		Connector Type TK04FW
BR	á	Connector No. M379	d
16 R ACCESSORY IDENTIFY	医	Connector Name   GLASS ANTENNA	唐
	H.S.	Connector Type GT138CN-1 /100-HII	HS
Connector No. M303	-[c	1	
Connector Name COMBINATION SWITCH (SPIRAL CABLE)	7	<b>(((((((((((((</b>	3
	<u> </u>	Tis.	
Connector Type TRUSFGT		<u>-</u>	E
	Perminal Color   Signal Name [Specification]   No.   of Wire	] ८८	
<u></u>		]	
	= 7	T	2 SHIELD SHIELD[With telephone and navigation system]
20 19 18 17 16 15 14 13	+	_	B
		2 - FM SUB	
-	Connector No. M376		
No. of Wire Signal Name [Specification]	Connector Name WIRE TO WIRE	Connector No. R1	
13	Connector Type GT13SCN-2/1PP-HU	Omeon Name	
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1		Connector Type TH16FW-NH	
16 -	HS.	Œ	
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	No. of Wire		

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BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAINMENT SYSTEM Connector No. R153   Connector No. R153	WIRE TO WIRE	TH32FW-NH		16   15   14   13   12   11   10   9   8   7   6   5   4   3   2   1	Signal Name [Specification]	-	1		-		-	-		-	-	-	-	-	_	1	_	_	-	_	-	_	_	-		_	-	
DVD No.	r Name	r Type		32 31 3	Color of Wire	Y/R	В	SHIELD	57	۸	SHIELD	BR	Υ	SHIELD	M/L	Y/G	J/Y	BR/L	5	٧/٧	PT	>	SHIELD	В	Μ	œ	SHIELD	Ð	В	SHIELD	œ	
MITH DVI	Connector Name	Connector Type	優 H.S.		Terminal No.	-	2	4	5	9	7	8	6	10	11	12	13	14	16	18	21	22	23	24	25	56	27	28	58	30	31	
Ž_		_			_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_			_	_				_	_	_	_	_
DIO WITHOUT NAVIGATIO	REAR DISPLAY UNIT	TH32FW-NH		8   10   12   14   16   18   20   22   24   26   28   30   32   7   9   11   13   15   17   19   21   23   25   27   29   31	Signal Name [Specification]	GND	GND	BATTERY	BATTERY	HEADPHONE ON SIGNAL			COMM (DISP->DIST)	COMM (DIST->DISP)			COMPOSITE SYNC	COMPOSITE IMAGE SIGNAL	RGB AREA (YS) SIGNAL	GND	VP	HP	RGB GND	RGB (B:BLUE) SIGNAL	RGB (G:GREEN) SIGNAL	RGB (R:RED) SIGNAL	SHIELD	SHIELD	HEADPHONE SOUNDSIGNAL SIGNAL RH (-)	HEADPHONE SOUNDSIGNAL SIGNAL LH (-)	HEADPHONE SOUNDSIGNAL SIGNAL RH (+)	HEADPHONE SOUNDSIGNAL SIGNAL LH (+)
AUE No.	r Name	r Type		2 1 3 5	Color of Wire	В	8	Y/R	Y/R	В	٨/٨	SHIELD	۸	57	5	SHIELD	5	ч	В	SHIELD	ч	Μ	M/L	5/X	T/A	1/YB	SHIELD	CHIELD	ยา	BR	٨	Å
BOSE A	Connector Name	Connector Type	程 H.S.		Terminal No.	-	2	3	4	5	9	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	22	26	27	28

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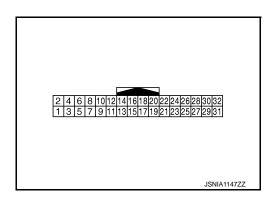
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# **DVD PLAYER**

Reference Values

INFOID:0000000005528593

**TERMINAL LAYOUT** 



### PHYSICAL VALUES

	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
1 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
2 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage
4 (V)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage
5	_	Shield (DVD image GND)	_	_	_	_
7 (P)	Ground	DVD image signal	Output	Ignition switch ON	When DVD image is displayed.	0. 4 0 -0. 4 *** 40µs SKIB2251J
13 (G)	11 (B)	AUX sound signal RH	Input	Ignition switch ON	AUX sound output.	(V) 1 0 -1 + 2ms SKIB3609E
14 (R)	12 (W)	AUX sound signal RH	Input	Ignition switch ON	AUX sound output.	(V) 1 0 -1 + 2ms SKIB3609E
16		Shield	_		_	_

### **DVD PLAYER**

### < ECU DIAGNOSIS INFORMATION >

## [BOSE AUDIO WITHOUT NAVIGATION]

	ninal color)	Description			Condition	Reference value
+	-	Signal name	Input/ Output		Condition	(Approx.)
17 (G)	18 (R)	Headphone sound signal LH	Output	Ignition switch ON	Headphone sound output.	(V) 1 0 -1 *** 2ms SKIB3609E
19 (V)	20 (LG)	Headphone sound signal RH	Output	Ignition switch ON	Headphone sound output.	(V) 1 0 -1 → 2ms SKIB3609E
21 (B)	22 (G)	Sound signal LH (DVD and AUX sound)	Output	Ignition switch ON	DVD or AUX sound output.	(V) 1 0 -1 + 2ms SKIB3609E
23 (R)	24 (W)	Sound signal RH (DVD and AUX sound)	Output	Ignition switch ON	DVD or AUX sound output.	(V) 1 0 -1 + 2ms SKIB3609E
29 (L)	_	AV communication signal (L)	Input/ Output	_	_	_
30 (R)	_	AV communication signal (H)	Input/ Output	_	_	_
31 (L)	_	AV communication signal (L)	Input/ Output	_	_	_
32 (R)	_	AV communication signal (H)	Input/ Output	_	_	_

Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAIN-MENT SYSTEM -

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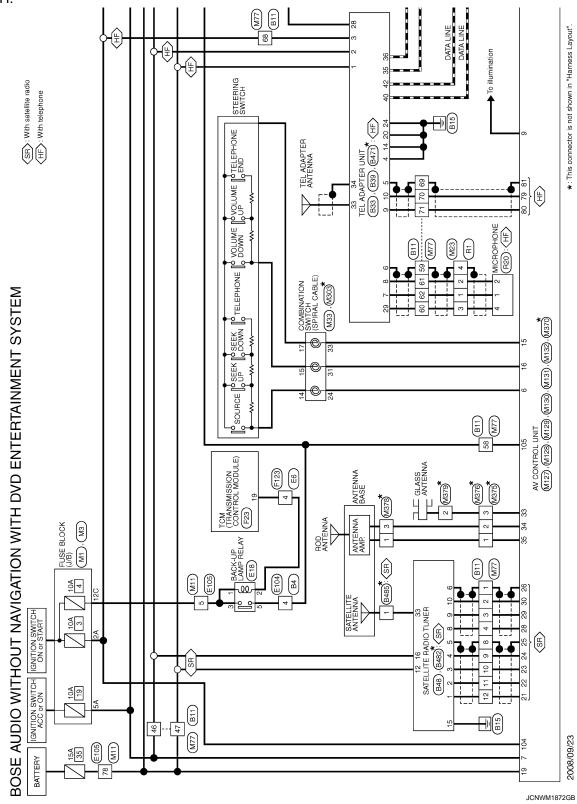
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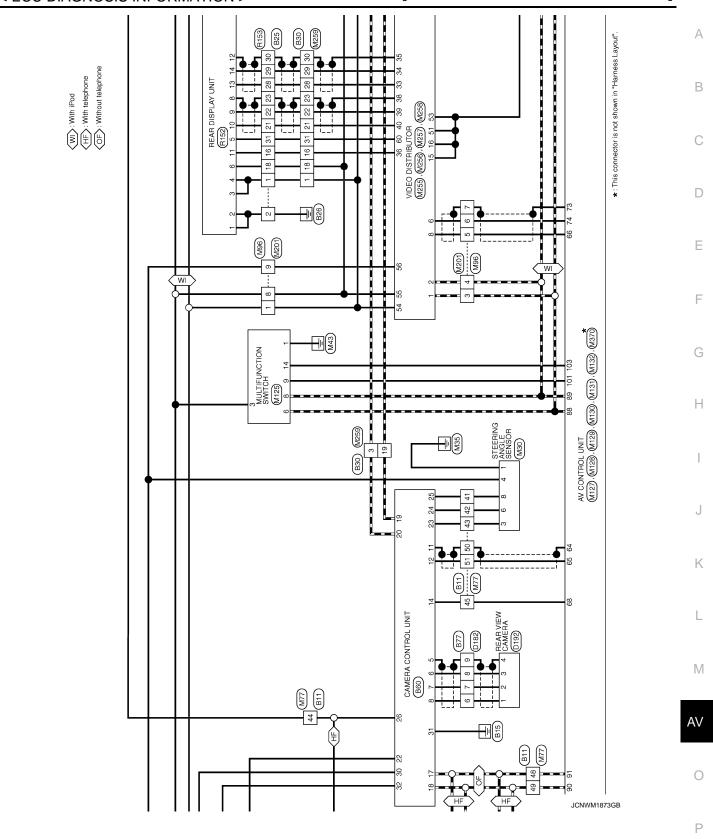
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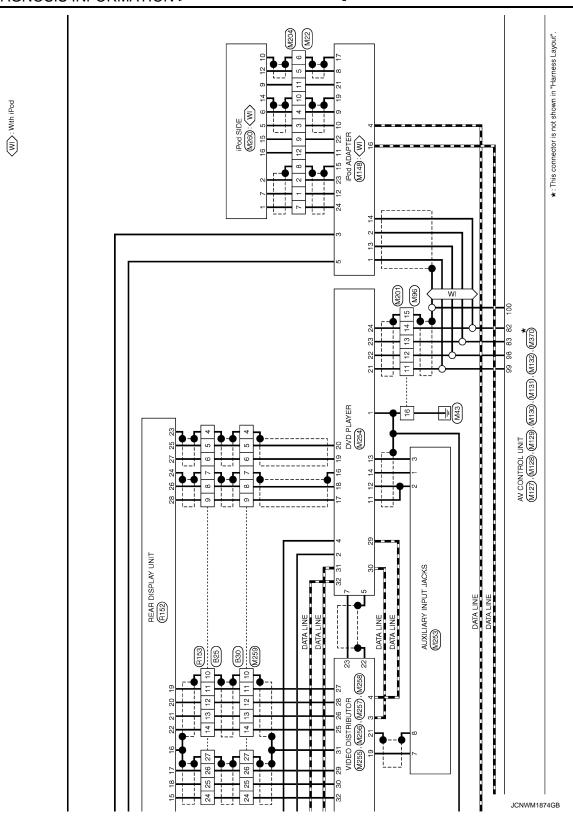
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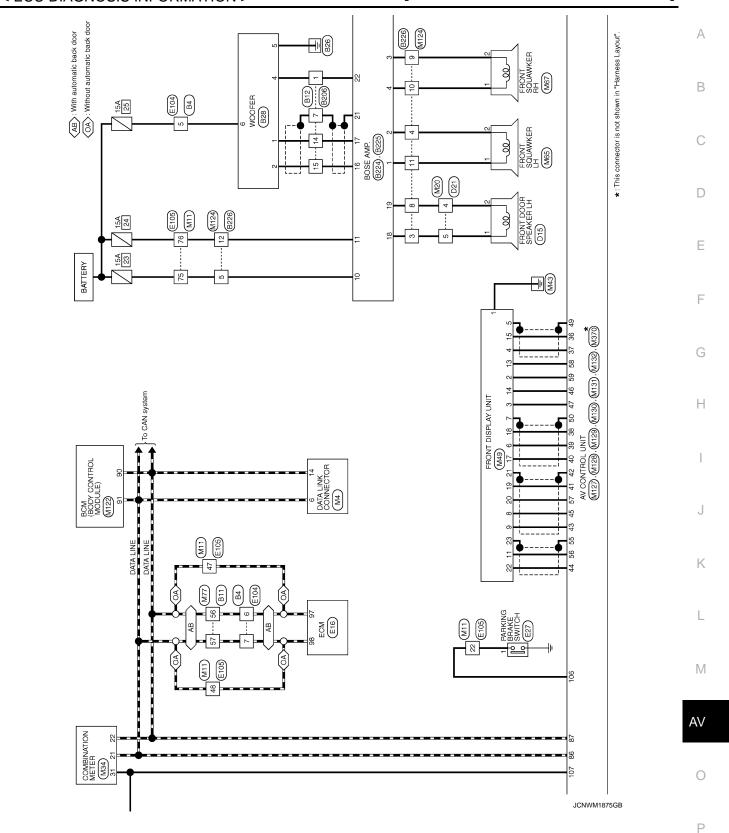
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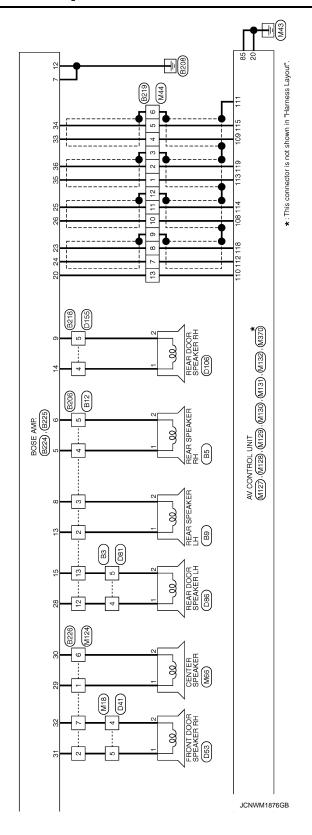
In this section, PRESET SWITCH and MULTIFUNCTION SWITCH are written as the MULTIFUNCTION SWITCH.











WITH DVD ENTERTAINMENT SYSTEM    1	Connector Type TKOZFBR	Terminal   Color   Signal Name [Specification]   No.   of Wire   Signal Name [Specification]   1   V	e e	Fermion   Color   Signal Name [Specification]   No.   Of Wire   Signal Name [Specification]   Signal Name [Specification]   Color   Color
BOSE AUDIO WITHOUT NAVIGATION WITH  Connector No. 83  Connector Name WIRE TO WIRE  Connector Type IKIOFW-NSS  (10 9 8 7 6 6 5 4 3 2 1 1  (18 17 16 15 14 13 12 11)	Color Signal Name [Specification] of Wire L L L L C	SB C G G G C C C C C C C C C C C C C C C	December   December	Color of Wire Signal Name (Specification)]  of Wire
BOSE AU Connector No. Connector Name Connector Type H.S. H.S.	Terminal C No. of 1 1 5 5 7 1 10 10	11 12 13 15 17 17 18 18	Connector No. Connector Name Connector Type	1 eminal Of No. of No. of 1 1 2 2 2 2 3 3 4 4 4 4 4 4 6 5 5 5 5 6 6 6 6 6 6 6 6 6

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**AV-339** Revision: 2009 September 2010 Murano

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14	BR	1	71	B/R		6	g	1	Constant Name	WOOFEB
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17	^	1	74	H	-	12	ΓG	1	4	
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	S G R	O B B >	Name   Ni   Ni   Ni   Ni   Ni   Ni   Ni   N	С
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	SATELLITE RADIO TUNER A16FW	7 8 9 10	Signal Name [Specification]	F
Connector No. 1848	e e	H.S. 246	No.    G	
_		<b>E</b>	Terminal No. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Н
WITH DVD ENTERTAINMENT SYSTEM	TEL ADAPTER UNIT THOSEW—NIH	35 37 39 41 36 38 40 42	Signal Name [Specification]   AV COMM (H)   AV COMM (L)    J	
	Connector Name TEL ADAPTI	H.S.	Contractor No.   Color   Col	К
VOITION		===		L
BOSE AUDIO WITHOUT NAVIGATION	) WIRE NH	110 9 8 7 6 5 4 3 2 77 26 25 24 23 22 12 1 20 19 18	Signal Name [Specification]	M
DIO M	WIRE TO WIRE	14 13 12 1 30 29 28 2		AV
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BOSE A	引		DVD ENTER	WITH DVD ENTERTAINMENT SYSTEM	On reference	7000	6	1790	(-) IT DEAD IN (-)	
Collinecto	INO. DZUG	71	5 :		COIIIIGCEOI NO.	477G	62	W/L	SOUND SIGNAL REAR LT (-)	
Connector Name	r Name WIRE TO WIRE	2 :	> 0	1	Connector Name	BOSE AMP.	24	V (%)	SOUND SIGNAL REAR LH (+)	
Connector Type	r Type	Ŧ Ę	1 8		Coppector Type	SGA12EBB-S.142	28	7/4/2	SOUND SIGNAL REAR RH (+)	
		2 12	3 2	1	odf. pronunci	1	28	+	SOUND SIGNAL BEAR DOOR SPEAKER I H (+)	
C C C C C C C C C C C C C C C C C C C		82	SR.	1	4		53	t	SOUND SIGNAL CENTER SPEAKER (+)	
1					2		30	a.	SOUND SIGNAL CENTER SPEAKER (-)	
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	9 10 11 12 13 14 13	, out o	MIDE TO MIDE	HDE.		9 8 7 6 5 4 3 2 1	33	W/R	SOUND SIGNAL FRONT RH (+)	
		00		VINE			34	B/R	SOUND SIGNAL FRONT RH (-)	
		Connect	Connector Type TH32MW-NH	H			35	W/R	SOUND SIGNAL FRONT LH (+)	
Terminal	Color Signal Name [Specification]	ą			lal	r Signal Name [Specification]	36	B/R	SOUND SIGNAL FRONT LH (-)	
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e	BR		2 4 5 6	0 9 10 11 12 13 14 13	+	SOUND SIGNAL FRONT SQUAWKER RH (-)	Connector Name		WIRE TO WIRE	
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2	BR -				2 √	$\dashv$	Connector Type	П	NS12MBR-CS	
7	SHIELD -				6 BR	SOUND SIGNAL REAR SPEAKER RH (-)	4			
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		7	GR/V	1			No.	ot Wire		
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Connector No.	r No. B218	6	SHIELD	1	Connector No.	B225	2	BR	-	
Connector Name	IN Name WIRE TO WIRE	10	GR/V	1	Connector Name	BOSE AMP	3	м	1	
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4	O -[Without BOSE system]				17 W/R	SOUND SIGNAL WOOFER (-)				
· LC					╁	SOUND				
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BOSE AUDIO WITHOUT NAVIGATION Connector No. 8471  Connector Name   TEL ADAPTER UNIT  Connector Name   STELLITE RADIO TUNER  Connector Name   SATELLITE ANTENNA  Sale   Signal Name   Specification  Signal Name   Specification  Signal Name   Specification  Sometor No. 8482  Connector Name   SATELLITE ANTENNA  Sale   Signal Name   Specification	M
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BOSE AUC Connector Name Connector Type No. of Wire No.	0
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딍	WITH DVD					
Connector No. D81	Connector No. D106	Connector No.	D182	Connector No.	93	
Connector Name WIRE TO WIRE	Connector Name REAR DOOR SPEAKER RH (WITH BOSE SYSTEM)	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	
Connector Type TK10MW-NS8	Connector Type NS02FBR-CS	Connector Type	TK12FW	Connector Type	TK16MGY-1V	
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Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]	Terminal Color No. of Wire	Signal Name [Specification]	Terminal Color No. of Wire	Signal Name [Specification]	
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10 B –	Connector No. D155	6 R	-	^ 9	_	
11 Y	Manney Monney Manney TO Manney	7 G	-	8 P		
12 G –		8 B	-	10 W		
13 V –	Connector Type TK10MW-NS8	9 SHIELD	-	11 G	-	
14 P	ľ	10 LG	1	12 BR	-	
15 SB –		11 0	-	13 SB	-	
H		12 G	-	14 B	-	
18 GR –	1 2 3 4 5 6 7 8 9 10			15 0	-	
	11 12 13 14 15 16 17 18	Connector No.	01492			
- W			2012			
		Connector Name	REAR VIEW CAMERA			
Connector Name REAR DOOR SPEAKER LH (WITH BOSE SYSTEM)	Terminal Color	Connector Type	TH04MW-NH			
Connector Type NS02FBR-CS	_	4				
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L	+	ja	Signal Name [Specification]			
a	+	No. of Wire				
No. of Wire	+	+	CAMERA ON SIGNAL			
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Connector Name   BACK-UP LAMP RELAY   Connector Name   BACK-UP LAMP RELAY   Connector Type   MS72FL-W2-LC   EXT	
ENTERTAINMEN  EI8  BACK-UP LAMP RELAY  MSDFIL-M2-LC  Signal Name [Speces	
MITH DVD EN  Connector Name BA  Connector Name BA  Terminal Color  No. of Wire  Terminal Color  Terminal Color  No. of Wire  Terminal Color  Ter	r h
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Connector No. M3 Connector Name FUSE BLOCK (J/B) Connector Yave NSIZEW-CS		Terminal Color Signal Name [Specification]	6C BR -	200	GR	Н	Ц	12C 0 -		ZM ZZPZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	Т	Connector Name DATA LINK CONNECTOR	Connector Type BD16FW		I I I			103/15/8	11001-10		Terminal Color Simple Name (Sameles Him)	No. of Wire Signal Name Lopechication	+	5 B –	-	+	+		16 Y =					
BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAINMENT SYSTEM           Connector No.         F23         F123           Connector Name         TIX (TRANSMISSION CONTROL MODILE)         Connector Type         MRE TO WIRE           Connector Type         RH40FB-RZ8-L-RH         Connector Type         TIX (SIGTO-LV)		Color Signal Name [Specification]	- 1 1	1/0 8/9	1	L/R -	- L	Y/B -	BR/W -	- I	5 a	1			or No. M1	or Name FUSE BLOCK (J/B)	T	or Type NS06FW-M2			3A2A1A	O A 74 64 54 44	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Ļ		of Wire	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				oc 3	M 51	X
WITH DVD Connector No. Connector Name Connector Type	HS.	Terminal No.	- 0	9	. 2	9	8	10	= :	15	2 5	12			Connector No.	Connector Name		Connector Type	<b>€</b>	事	Ź.					Terminal	O	4 :	ZA	3A	4	2A	۲ A	8A
DIO WITHOUT NAVIGATION F23 TOM (TRANSMISSION CONTROL MODULE) RH40FB-RZ8-L-RH	22 33 34 35 66 37 38 39 40 47 48  22 23 34 15 16 17 18 19 20 44 42  2 3 4 5 6 7 18 8 9 10 41 42	Signal Name [Specification]	INH SW 2		INH SW 3 MON	GND			ō	DA	ATE TEMD SENSOD				S		SENSOR P		S/W-C			CAN-H			_	_	9	PL LINEAR SOL	GND	VIGN	BATT	VIGN		
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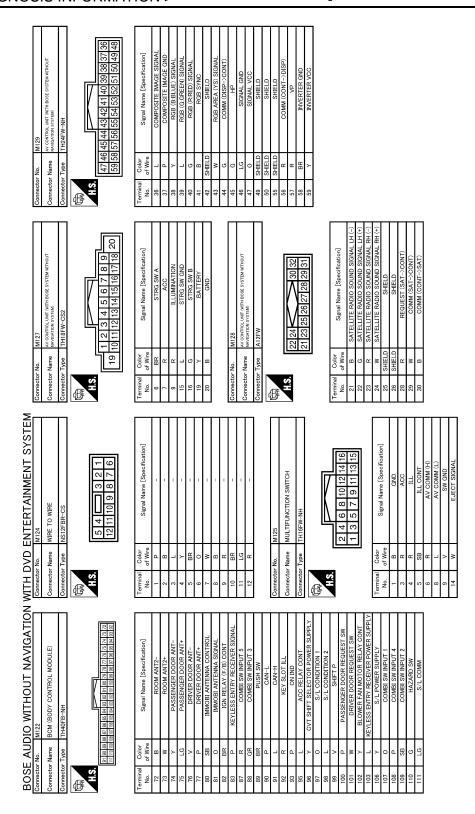
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	2	1	H		116171	8 19 20 21 22 23 23 24 25 26 36 37 38 39 40 41 42 43 44 45 46	Connector No.	No. M22	
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	30 R	_	4 W	_	18 W	-		SHIELD -	
		-	5 B	-[With BOSE system]	_		6	BR -	
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		-	6 GR	1	24 P				
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Revision: 2009 September AV-347 2010 Murano

BOSE AUDIO WITHOUT NAVIGATION	_	4 DVD	WITH DVD ENTERTAINMENT SYSTEM						
Connector No. M23		Connector No.	M33	14	GR	ILLUMINATION CONTROL SWITCH (-)	59	ΓG	1
Connector Name WIRE TO WIRE	Conne	Connector Name	COMBINATION SWITCH (SPIRAL CABLE)	12	BR	AIR BAG	30	0	ı
- 1			Т	18	_	AMBIENT SENSOR	31	>	İ
Connector Type TH16MW-NH	Conne	Connector Type	TK08FGY-1V	19	۵	AMBIENT SENSOR POWER	32	>	i
Q	ą			20	>	AMBIENT SENSOR GROUND			
	季	_		21	٦	CAN-H		١	
Į Į	7	v		22	۵	CAN-L	Connector No.		M49
		3	24 25 26	23	В	GROUND	Connecto	Connector Name	FRONT DISPLAY LINIT
2 3 4 5 6			07 07 47	24	*	FUEL LEVEL SENSOR GROUND		Т	
9 10 11 12 13 14 15 16			31 32 33 34	25	BR	CHG	Connector Type	r Type	TH24FW-NH
				56	9	PARKING BRAKE SWITCH	q		
L		ŀ		27	>	BRAKE FLUID LEVEL SWITCH	手		
la	Terminal		Signal Name [Specification]	59	œ	WASHER LEVEL SWITCH			<u> </u>
No. of Wire	Š	of Wire	$\dashv$	30	۵	VEHICLE SPEED (2-PULSE)		; ;	7
1 W	24	BR	┪	31	>	VEHICLE SPEED (8-PULSE)		7	0 9 8 7 9 9 4 3 2
2 SHIELD -[With telephone and navigation system]	24	>	-[With audio steering switch without telephone]	32	LG	OD OFF/SPORTS		24 23	22 21 20 19 18 17 16 15 14 13
2 R -[With telephone without navigation system]	25	$\dashv$	1	34	G	FUEL LEVEL SENSOR			
3 B -	26	SB	_	35	SB	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)			
4 SHIELD –	31	g	┪	36	œ	SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)	Terminal	Color	Signal Name [Specification]
- L	31	≻	-[With audio steering switch without telephone]				No.	of Wire	
7 Y	32	SB	┥				-	В	GND
- ×	33	_	-[With audio steering switch and telephone]	Connector No.		M44	2	Υ	BATTERY[With navigation system]
9 B	33	SB	-[With audio steering switch without telephone]	Connect	Connector Name	MIRE TO MIRE	2	Υ	INVERTER VCC[Without navigation system]
10 Y –	34	>	_				3	œ	ACC[With navigation system]
				Connect	Connector Type	TH32FW-NH	3	0	SIGNAL VCC[Without navigation system]
12 L –				4			4	SHIELD	SHIELD[With navigation system]
13 SB -	Conne	Connector No.	M34	F			4	Ф	COMPOSITE IMAGE GND[Without navigation system]
15 G –	ou co	Connector Name	COMBINATION METER	) I			2	В	AUX IMAGE GND[With navigation system]
16 R –			П			/	2	SHIELD	SHIELD[Without navigation system]
	Conne	Connector Type	TH40FW-NH		15	13 12 11 10 9 8 7 6 5 4 3	9	ď	RGB (G:GREEN) SIGNAL[With navigation system]
	ģ				32 31 30	129 28 27 26 25 24 23 22 21 20 19 18 17	9	٦	RGB (G:GREEN) SIGNAL[Without navigation system]
Connector No. M30	厚	_					7	SHIELD	SHIELD
Connector Name STEERING ANGLE SENSOR	Ę	v			ı		8	В	HP[With navigation system]
		3		Terminal	_	[noiteoficenS] ameN lemiS	8	g	HP[Without navigation system]
Connector Type TH08FW-NH		1 2	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	No.	of Wire	Company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the compan	6	Μ	RGB AREA (YS) SIGNAL
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医				2	œ	1	12	М	CAMERA IMAGE SIGNAL
K				က	SHIELD	İ	13	В	GND[With navigation system]
	Terminal		r Signal Name [Specification]	4	В	1	13	BR	INVERTER GND[Without navigation system]
1 2 3 4	No	of Wire		2	*	1	14	SHIELD	SHIELD[With navigation system]
5 6 7 8	-	>	BAT	9	SHIELD	_	14	ΓC	SIGNAL GND[Without navigation system]
	2	0	IGN	7	٦	_	15	Υ	AUX IMAGE SIGNAL[With navigation system]
	3	В	GROUND	00	œ	-	15	٦	COMPOSITE IMAGE SIGNAL[Without navigation system]
Terminal Color Simol Name [Saccification]	4	В	GROUND	6	SHIELD	-	17	ŋ	RGB (R:RED) SIGNAL
	2	SB	ICI	10	>	1	18	Μ	RGB (B:BLUE) SIGNAL[With navigation system]
1 R	8	SB	TRIP RESET SWITCH	Ξ	LG	-	18	Υ	RGB (B:BLUE) SIGNAL[Without navigation system]
2 P –	6	Μ	SW ILL POWER	12	SHIELD	_	19	В	RGB SYNC
3 -	10	0	METER CONTROL SW GND	13	Ь	1	20	ď	dΛ
4 G	Ξ	_	ENTER SWITCH	12	ΓG	1	21	SHIELD	SHIELD
	12	ш	SELECT SWITCH	16	٦	1	22	9	COMM (DISP->CONT)
- BS 9	13	L	Г	11	œ	1	23	SHIELD	SHIELD
- 0 8	13	≻	[LLUMINATION CONTROL SWTOH (+)[Without automatic drive positioner]	18	М	1			

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		2	Į	Connector No.	Connect	Connector Type	ą	厚	HS					Terminal	ġ Š	- 0	~ .	,	r in	٠	7	8	6	10	11	12	13	14	12	16	1 5	18	19	SO	21	22 52	3 6	*, Y	27	78	8	9 5	5 8	35	34	32	eg S												
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BOSE AUDIO WITHOUT NAVIGATION	WKER LH					1 0				Signal Name [Specification]	[With BOSF system]	Vithout BOSE system]	-[With BOSE system]	Vithout BOSE system]				AKER						0				Signal Name [Snecification]	Total Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the	1	ı				WKER RH						][;	2 1	Ī			Signal Name [Specification]											ľ	VI	
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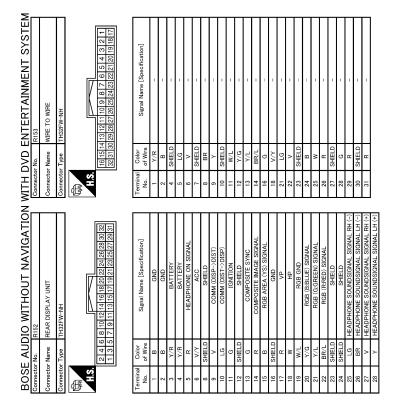
	16   8   8	
Connector No. MI48 Connector Type   TH24FW-NH  Connector Type   TH24FW-NH	Terminal   Oclor   Signal Name [Specification]	
MITH DVD ENTERTALII   96	105   S	
BOSE AUDIO WITHOUT NAVIGATION  Connector Name W. connector with a connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH    Connector Type   THISPW-NH	Terminal   Color   Signal Name [Specification]	

BOSE ALIDIO WITHOLIT NAVIGATION	WITH DVD ENTERTAINMENT SYSTEM				
Connector No. M253	21 B	Connector No. M257		16 B	GND
Connector Name AUXILIARY INPUT JACKS	22 G SOUND SIGNAL LH (-)	Connector Name VIDEO DISTRIBUTOR		19 GHE O	AUX IMAGE SIGNAL
Connector Type A08FW	× ^	Connector Type TH16FW-NH		t	SHELD
á	7	1		П	DVD IMAGE SIGNAL
Tests .	30 R AV COMM (H)	CHATA THE THE THE THE THE THE THE THE THE THE			
K.	٦ ~	/ Si	_ [	Connector No. M259	
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Terminal Color	Connector Name VIDEO DISTRIBUTOR	Terminal Color			
of Wire	Connector Type TH08FW-NH	of Wire		312	
1 R SOUND SIGNAL RH (+)	4	25 R RGB (R:RED) SIGNAL	SIGNAL	ŀ	4
+	<b>国</b>	L RGB (C	SIGNAL	1 2 3 4	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
†		× ,	a	1/10/18/19/1	122 20 24 20 20 21 20 21 30 31 32
3 B SOUND SIGNAL LH (+)[Without DVD player]	54 56 60	28 G RGB (B:BLUE) SIGNAL	SIGNAL		
6	3 :	4 3		Taminal	
B AIIX I	00 00	SHIFLD			Signal Name [Specification]
$\frac{1}{1}$		B BGB AB	SIGNAI	t	1
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Connector No. M254	_	R	GE SIGNAL	P.	1
Т	В	SHIELD		t	1
Connector Name DVD PLAYER	┝	5	z	^ 9	1
Connector Type TH32FW-NH	>	38 SHIELD SHIELD		7 SHIELD	1
	56 G IGNITION	Г	·>DIST)	8	1
· · · · · · · · · · · · · · · · · · ·	60 R HEADPHONE ON SIGNAL	40 LG COMM (DIST->DISP)	>DISP)	5 6	1
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2 5 7 0 11 12 15 17 10 31 32 25	Connector No. M256	Connector No. M258		12 G	1
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	Connector Time THISTM-NIL	Connector Type Tubor Number		14 X	1 1
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I DVD I				┞	1
11 B AUX SOUND SIGNAL LH (-)			-	돐	1
	_	_	scincation	28 G	ı
13 G AUX SOUND SIGNAL LH (+)	51 B GND	1 R AV COMM (H)	€	L	ı
œ		2 G AV COMM (L)	(1)	30 SHIELD	-
SHELD			Œ	t	1
17 G HEADPHONE SOUNDSIGNAL SIGNAL LH (+)		4 L AV COMM (L)	(1)		
18 R HEADPHONE SOUNDSIGNAL SIGNAL LH (-)		6 R COMPOSITE IMAGE GND	AGE GND		
19 V HEADPHONE SOUNDSIGNAL SIGNAL RH (+)		8 L COMPOSITE IMAGE SIGNAL	GE SIGNAL		
20 LG HEADPHONE SOUNDSIGNAL SIGNAL RH (-)		15 B GND			

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Signal Name [Specification]  -[With telephone and ravigation system] -[With telephone without marginon system]	В
	С
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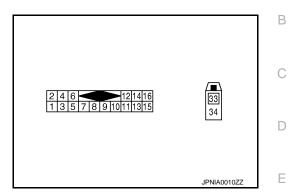
Revision: 2009 September AV-353 2010 Murano



JCNWM3210GB

# SATELLITE RADIO TUNER

Reference Values



Α

### PHYSICAL VALUES

Terr	minal	Description					
+	_	Signal name	Input/ Output		Condition	Reference value (Approx.)	
2 (Y/L)	1 (W/L)	Satellite radio sound signal LH	Output	Ignition switch ON	When satellite radio mode is selected	(V) 1 0 -1 + 2ms SKIB3609E	
4 (BR/L)	3 (Y/G)	Satellite radio sound signal RH	Output	Ignition switch ON	When satellite radio mode is selected	(V) 1 0 -1 *** 2ms SKIB3609E	
5	_	Shield	_	_	_	_	
6	_	Shield	_	_	_	_	
8 (R/W)	Ground	Request signal (SAT→CONT)	Output	Ignition switch ON	When satellite radio mode is selected	(V) 10 0 -10 → 10ms SKIA9299J	A
9 (R/L)	Ground	Communication signal (SAT→CONT)	Output	Ignition switch ON	When satellite radio mode is selected	10 0 -10 + 1ms	

## **SATELLITE RADIO TUNER**

### < ECU DIAGNOSIS INFORMATION >

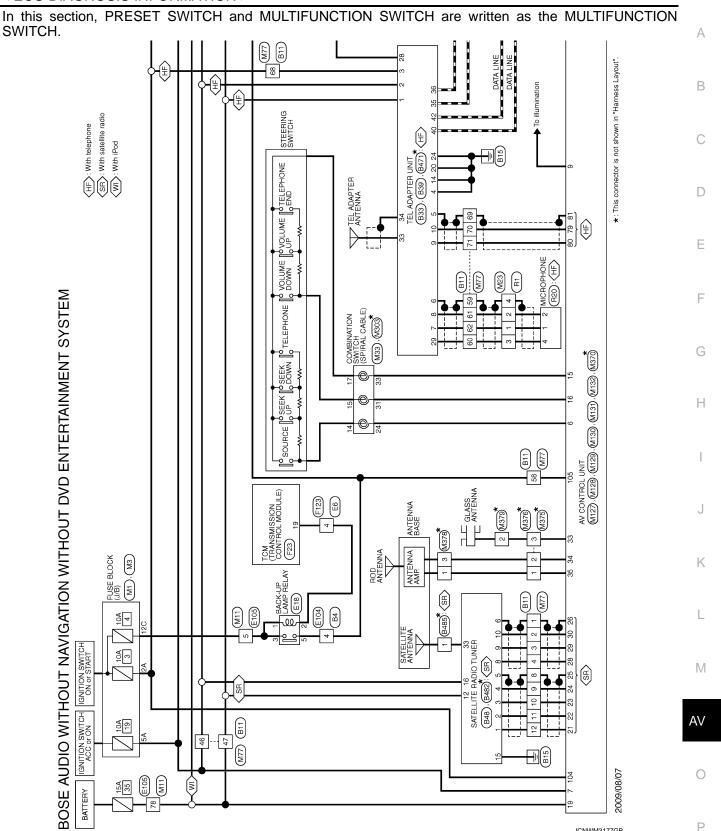
## [BOSE AUDIO WITHOUT NAVIGATION]

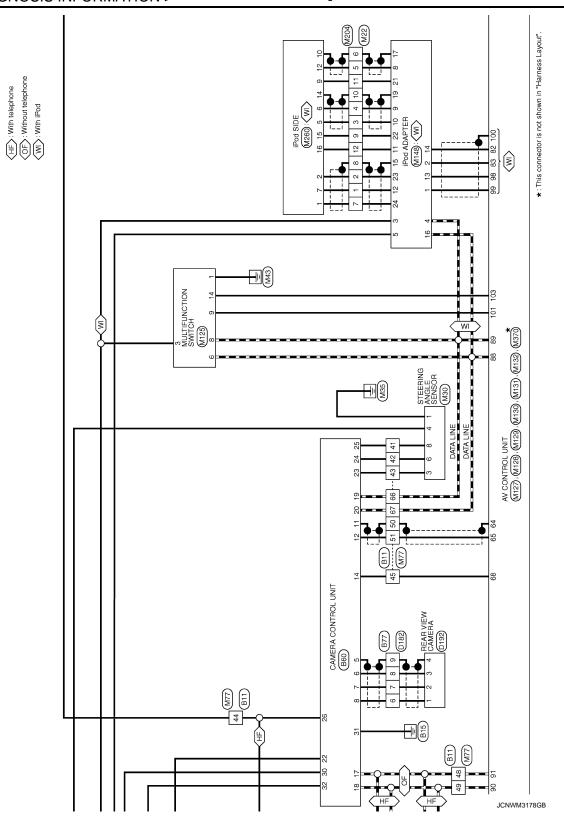
Terr	minal	Description				Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
10 (B)	Ground	Communication signal (CONT→SAT)	Input	Ignition switch ON	When satellite radio mode is selected	(V) 10 0 -10 ** 1ms SKIA9301J
12 (V)	Ground	Battery power supply	Battery voltage			
15 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
16 (GR)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage
33	_	Satellite antenna	Input	_	_	_

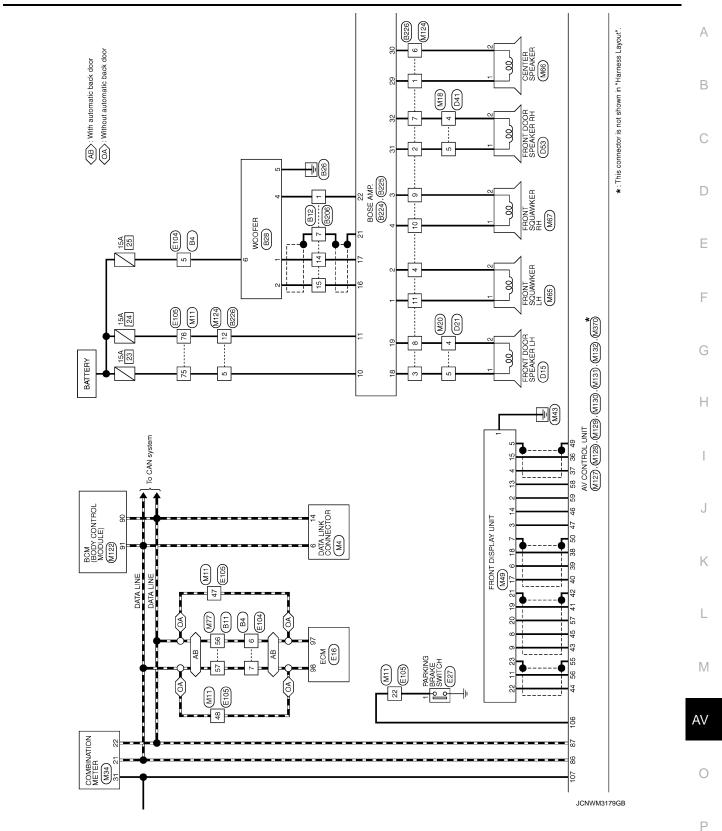
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION WITHOUT DVD ENTER-TAINMENT SYSTEM -

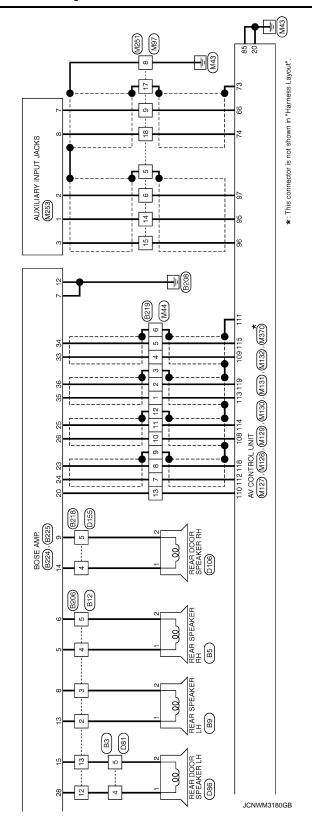
NOTE:

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	2]		Connector Name	REAR SPEAKER RH	
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			Connector No.	B9	
			Connector Name	REAR SPEAKER LH	
Connector No.	or No.	B4			
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TEM 96	97	66		Connector No.	Connector Name	Connector Type	Collifector	Œ	Ę	Ź				Terminal	Š	-	2	3	4	r 2	T	∞ σ	n Ç	2 =	12	13	14	15		Connector No		Connector Name	Connector Type	4	厚	) E	2				Torminal	_	T	- 2	
BOSE AUDIO WITHOUT NAVIGATION WITHOUT DVD ENTERTAINMENT SYSTEM	H	>	48 GR -[With rear view camera and telephone]	ź >	S	+	2	54 LG -		Н	$\dashv$		SHIELD	+	62 R/W -	┝	H	H	9	+	SHIELD	70 W/R	Y/9	1 5	88 88	H	- 92 92	T	ά	m 08	- R	82 L -	83 BR –	84 0 -	Н		$\dashv$	$\dashv$	GR	> 0	- S - G - G - G - G - G - G - G - G - G	Ya e	╀		ł
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# [BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS INFORMATION >

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Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Conn	Н
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UT DVD ENTERTAINMEN   BN	J
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NAVIC	M
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BOSE AUC   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector	0
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Connector No. 9482 Connector Name SATELLITE RADIO TUNER Connector Type FAKRA  4 5 1112	Signal Name (Specification)   No.   Of Wire   Signal Name (Specification)   No.   Of Wire   Signal Name (Specification)   No.   SATELLITE ANTENNA	H38	Terminal Color Signal Name [Specification]  No. of Wire System [Specification]  1 - SATELLITE ANTENNA  Connector No. D15  Connector Name FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)  Connector Type NSOZFBR-CS	TEL ANTENA   Signal Name [Specification]
Connector No.   B226   Connector No.   B226   Connector No.   B226   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connect	Terminal   Color     No.   of Wire     1	[	Connector No.   B471   Connector No.   B471   Connector Name   TEL ADAPTER UNIT   Connector Type   GT16G-1S-HU   R.H.(-)     R.H.(-)	Terninal Color   No. of Wire   33
MITHOUT DVD ENTERTAINMENT SYSTEM   Cor		62524232221201919181716	Terminal   Color   Signal Mane [Specification]     15	GR/V G SOUND G SOUND P SOUND BR SOUND W/Y SOUND W/R 8/R
BOSE AUDIO WITHOUT NAVIGATION V Connector No. 8219  Connector Name WIRE TO WIRE  Connector Type ITJ23MW-NH  ILS 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 8 9 10 11 12 13 14 15 16 17 8 9 10 11 12 13 14 15 16 17 8 9 10 11 12 13 14 15 16 17 8 9 10 11 12 13 14 15 16 17 8 9 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 19 10 11 12 13 14 15 16 17 8 18 18 18 18 18 18 18 18 18 18 18 18 1	Terminal   Color   Signal Name [Specification]   W/R	<del> "                                    </del>	15 SB	SGA12FBR-SJA2

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[BOSE AUDIO WITHOUT NAVIGATION]

### < ECU DIAGNOSIS INFORMATION >

Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]	АВ
NS02FEH NS02FEH NS02FEH NS02FEH	С
Connector Name Connector Type Connector Type No.  Connector Name Connector Name Connector Name Connector Name Connector Name Connector Name Connector Name Connector Type  A.S.  Terminal Colo No.  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector Type  Connector	D
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Signal Name [Specification]   Signal Name [Specification]	F
Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name	G
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VD ENTE	J
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Name [Specification]	М
NUTH   D21   TH40FW-CS1   S   S   S   S   S   S   S   S   S	AV
BOSE AUD Connector Name Connector Name Connector Name Connector Name Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Type Connector Ty	0
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Connector No. E18 Connector Name BACK-UP LAMP RELAY Connector Type MSXZFL-M2-LC  MSXZFL-M2-LC  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  TABLE STATE  T	Terminal Color Signal Name [Specification]	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Н	Gennactor No E27	ءِ ا		d d	MATT	H.S.	<u> </u>	]	, old	No. of Wire Signal Name [Specification]														
Connector No. E16 Connector Name ECM Connector Type RH24FB-RZ8-L-LH  Connector Type B100 94 98 107 111  R4.8. E2 68 90 94 98 107 111  R4 68 92 95 107 111  R4 68 92 95 107 111	inal Color Signal Nan	81 W APSI 82 O APSI 83 RR AVGGI-APSI	( m >	- SB	50	+		4	GR	+	1 0	R 9	gs >	SB	10/ B GND		$\dashv$		n								
N WITHOUT DVD ENTERTAINMENT SYSTEM  12 G Gon  Connector No. D192  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  Connector Name REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA  CONNECTOR NAME REAR VIEW CAMERA	1234	Terminal Color Signal Name [Specification] -	11	CAMERA		Connector No.	<u>و</u>	т	7	唐	4.S.	10 11 12 13 14		L	Ferminal   Color   Signal Name [Specification]   No.   of Wire   Signal Name [Specification]	1	3 У = -	α ;;	- C CK	- d 8	Н	ŋ	12 BR = -	33 m	0		
BOSE AUDIO WITHOUT NAVIGATION Genrector Name WIRE TO WIRE Connector Type TKIOMW-NSS    1   2   3   4   5   6   7   8   9   10	Terminal Color Signal Name [Specification]	7 M M = 1	H	$^{+}$	H	14 P	Н	18 GR –		Connector No. D182	Connector Name WIRE TO WIRE	Connector Type TK12FW	E	֡֝֟֝֟֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֟֟֝֟֟֝֟֟֟֝֟	5 4 3 - 2	12 11 10 9 8 7 6			Signal Name [Specification]   No. of Wire	Ħ	2 L = =	$\dashv$	0 0 0	2: 0	- B	S	11 0 -

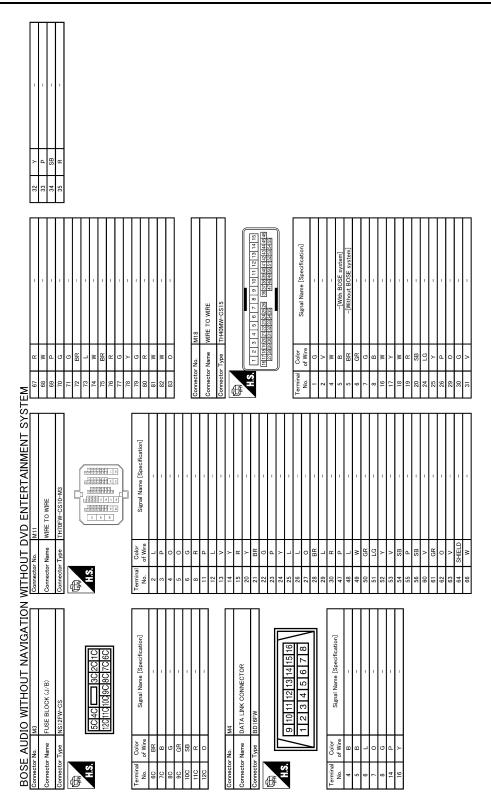
JCNWM3186GB

[BOSE AUDIO WITHOUT NAVIGATION]

### < ECU DIAGNOSIS INFORMATION >

Signal Name [Specification]    A	АВ
Connector No.   F123	C
MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   MODULE   M	Е
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Connector No. M66 Connector Name CENTER SPEAKER Connector Type TK02FBR H.S.	Terminal   Color   Signal Name [Specification]   Color   Connector Name   FRONT SOUAWKER RH   Connector Name   FRONT SOUAWKER RH   Connector Type   TROZEBR   Connector Type   TROZEBR   Color   Signal Name   Specification]   No.   F.   Color   Signal Name   Specification]   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Co	
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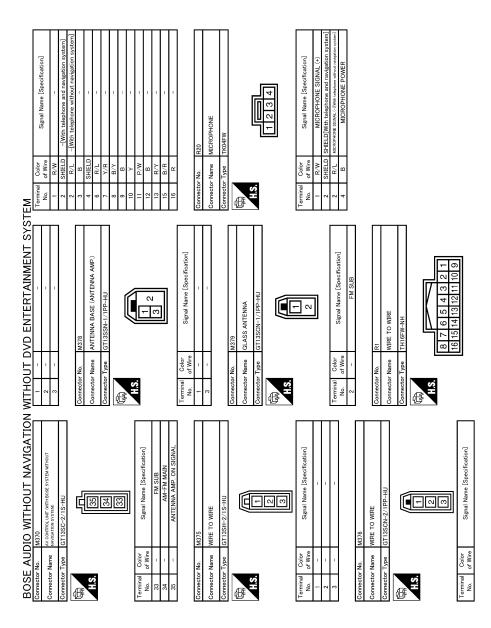
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BOSE AUDIO WITHOUT NAVIGATION Connector No. M124 Connector Name WIRE TO WIRE Connector Type NSIZEBR-CS	S	nector No. nector Name nector Type	M129 AN CONTROL UNIT WITH BOSE SYSTEM WITHOUT INVOCATION BYSTEM) TH284PW-NH	66 68 73 74	Y P SHIELD R R R R	AUX IMAGE SIGNAL[Without DVD player] CONNECTION RECOGNITION SHIELD AUX IMAGE GND[With DVD player] AUX IMAGE GND[Without DVD nolawer]
HS. 5 4 3 2 1 12 11 10 9 8 7 6	HS. 12 3 4 5 6 7 8 9 10 11112131415161718 20	H.S. 47 46 45 59 58 57	47 46 45 44 43 42 41 40 39 38 37 36 59 58 57 56 55 54 53 52 51 50 49 48	Connector No. Connector Name Connector Type		MI 31 An control, cust form fode everta without TH32PW-NH TH32PW-NH
Terminal   Color   Signal Name [Specification]   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orlor   Orl	Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   Signal Name   Specification]   Terminal Color No. of Wire 36 L 37 P 37 P 38 Y	Signal Name [Specification] COMPOSITE MAGE SIGNAL COMPOSITE MAGE CND RGB (B-BLUE) SIGNAL RGB (GORER) SIGNAL RGB (GORER) SIGNAL RGB (GORER) SIGNAL	H.S.	91 90 86	88 87 66 86 84 83 82 81 80 70 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177 78 177	
₩	3 > @	l l	RGB SYNC SHIELD	Terminal No.	Color of Wire	Signal Name [Specification]
B C C		H	RGB AREA (YS) SIGNAL COMM (DISP->CONT)	79	٦ ٣	TEL VOICE SIGNAL (+) TEL VOICE SIGNAL (+)
10 BR	П	Н	HP GIOMA GAND	18	SHIELD	SHIELD SHIELD
12 R		Ħ	SIGNAL VCC	82 83	* *	SOUND SIGNAL RH (-)[With DVD player] [Pod SOUND SIGNAL RH (-)[Without DVD player]
	Connector lype A12FW	49 SHIELD 50 SHIELD	SHIELD	88 83	n n	SOUND SIGNAL RH (+)[With DVD player] iPod SOUND SIGNAL RH (+)[Without DVD player]
Connector No. M125	修		SHIELD	85	а.	GND
Connector Name MULTIFUNCTION SWITCH	H.S. 3032	57 X	COMM (CON I ->DISP)	88 88		CAN-H CAN-L
Connector Type TH16FW-NH	21 23 25 26 27 28 29 31	H	INVERTER GND	88	α.	AV COMM (H)
E		). A	INVERTER VCC	8 8	J 0	AV COMM (L) AV COMM (H)
HS.	Tomoinal Oploy	M No	0617	91	_ 0	AV COMM (L)
2 4 6 8 10 12 14 16		Г	AV CONTROL UNIT (WITH BOSE SYSTEM WITHOUT	96	£ @	AUX SOUND SIGNAL LH (+)
1 3 5 7 9 11 13 15	В		WIGATION SYSTEM)	97	М	AUX SOUND SIGNAL GND
	22 G SATELLITE RADIO SOUND SIGNAL LH (+) 23 R SATELLITE RADIO SOUND SIGNAL RH (-)	ector Type	TH16FW-NH	86	5 -	SOUND SIGNAL LH (=)[With DVD player] iPod SQLIND SIGNAL LH (=)[Without DVD player]
Terminal Color Signal Name [Soecification]	* *	Œ		66	П	SOUND SIGNAL LH (+)[With DVD player]
	SHIELD	SI	<u> </u>	66	BR	iPod SOUND SIGNAL LH (+)[Without DVD player]
1 B GND	26 SHIELD SHIELD 28 R REQUIEST (SAT->CONT)	67	7 66 65 64 63 62 61 60	8 5	SHIFLD	SHIELD[With DVD player]
	*	75	74 73 72 71 70 69	101	>	SW GND
5 SB ILL CONT	Н	<u> </u>		103	Μ	EJECT SIGNAL
6 R AV COMM (H)				104	ŋ	IGNITION
8 L AV COMM (L)		Terminal Color	Signal Name [Specification]	105	BS e	REVERSE DADKING BDAKE
w EJI		T	SHIELD	101	>	VEHICLE SPEED (8-PULSE)
		M J	COMPOSITE IMAGE SIGNAL COMPOSITE IMAGE SIGNAL[With DVD player]			

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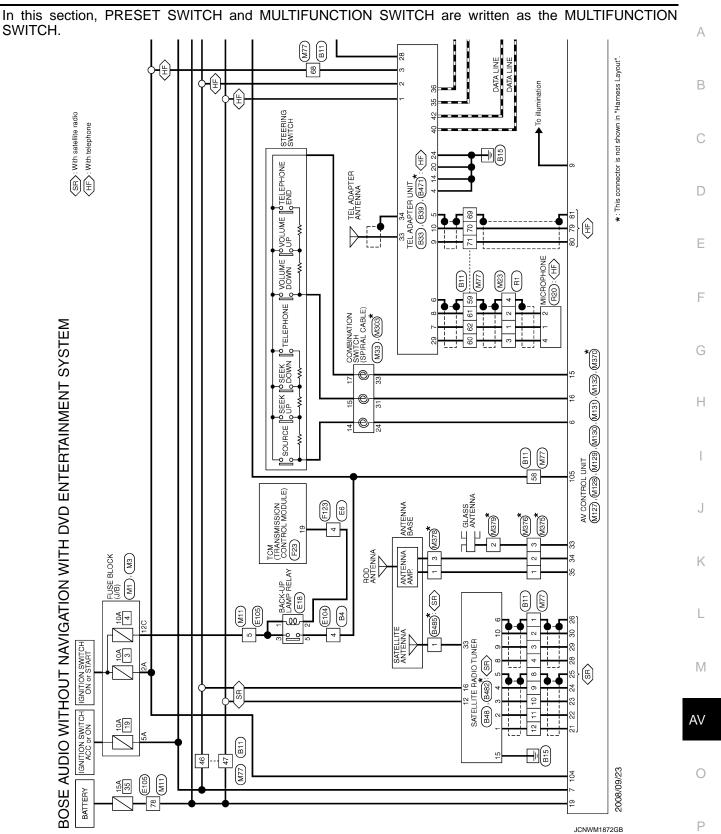
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Signal Name (Specification)   Pad SOUND SIGNAL (ND)   Pad SOUND SIGNAL (ND)   COMM (Pad->)Pad ADAPTER)   COMM (Pad->)Pad ADAPTER->)Pad     Pad SOUND SIGNAL RH (+)   Pad COMETON RECOGNITION RECOGNITION   CHARGE POWER   SHIELD     ACCESSORY IDENTRY     ACCESSORY IDE	В
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NZO4 ENTERT   1   2   3   4   5   6   6   6   6   6   6   6   6   6	J
SHELD	К
	L
MI32	M
OIO   M   M   M   M   M   M   M   M   M	AV
Connector Name   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management   Management	0
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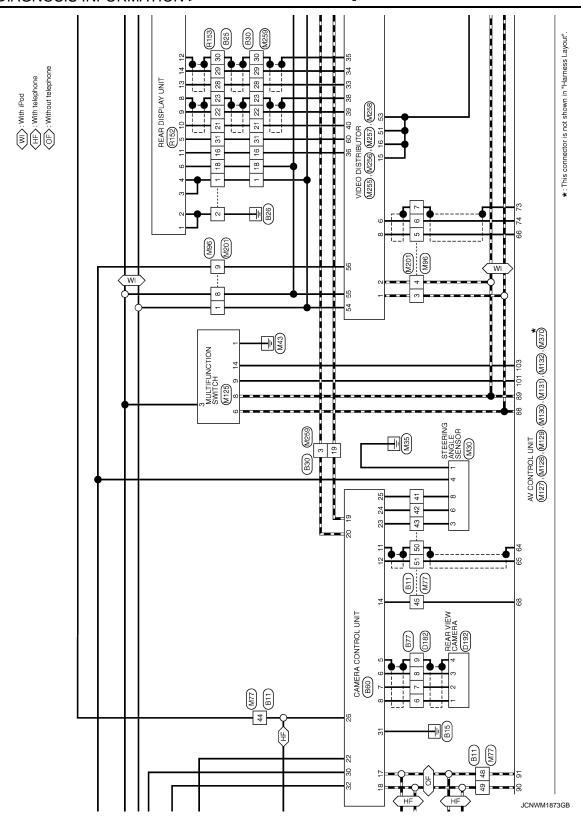


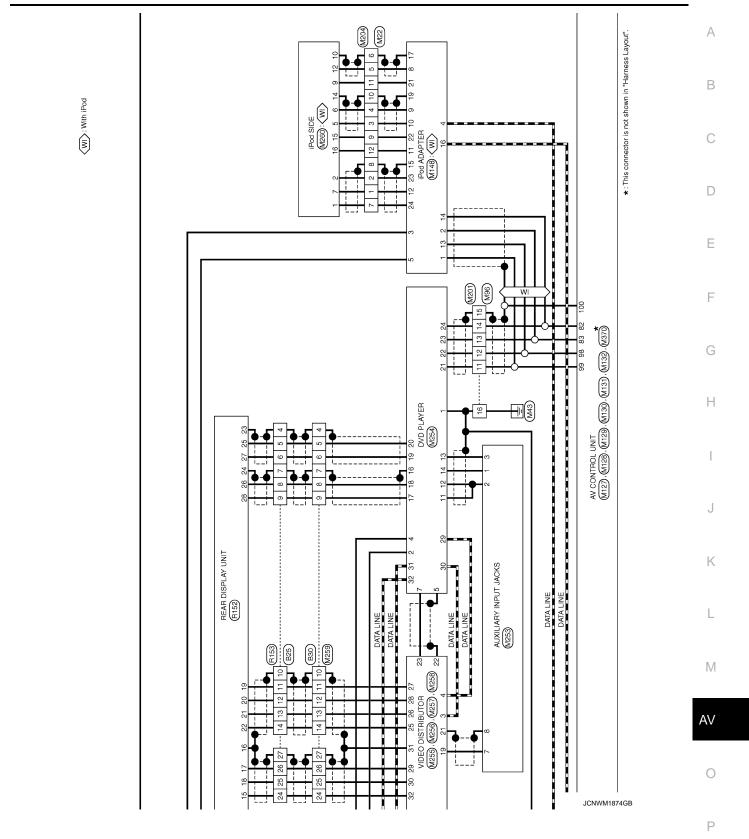
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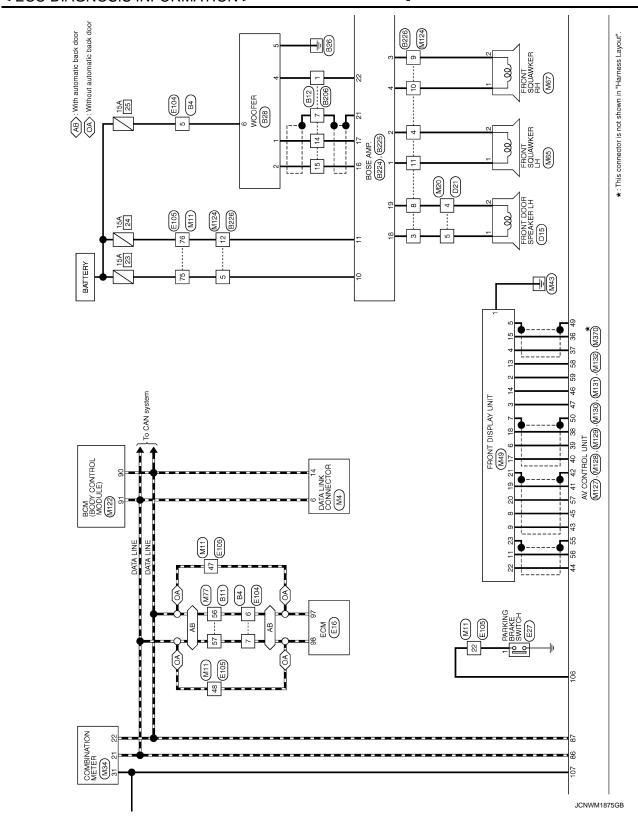
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAIN-MENT SYSTEM -

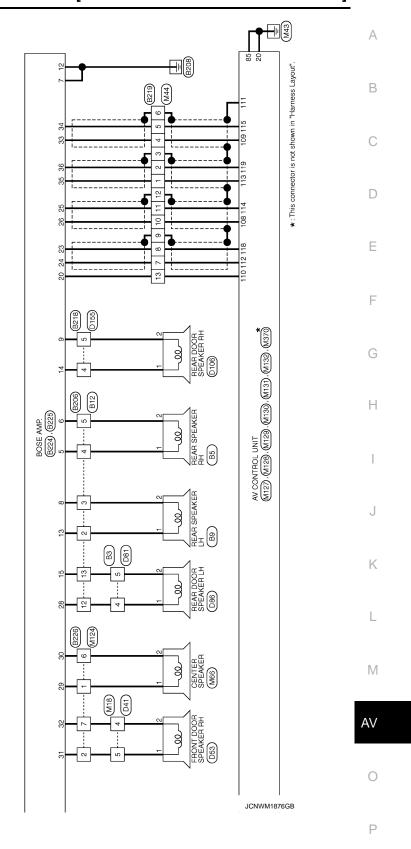
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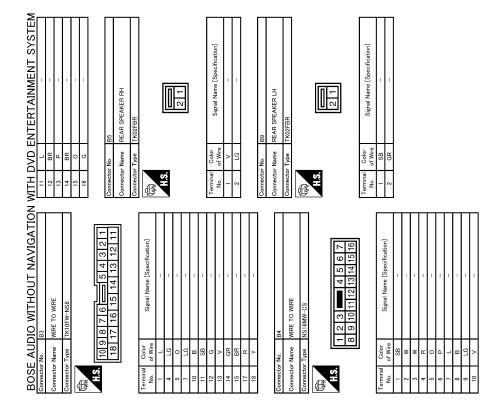












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[BOSE AUDIO WITHOUT NAVIGATION]

### < ECU DIAGNOSIS INFORMATION >

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BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAINMENT SYSTEM	1 1	1	-	-[With rear view camera without telephone		1	1	r	1		1	1				-		1	1					1	1	1	-	-	1	1	1	1	1	1 1	1	1	1	1	1		1	1	1															
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BOSE AL	Connector No.	Connector Name	Connector Lype	1	<b>E</b>	H.S.				Terminal Colo	No. of Wire	T	2 B	3 R/L	4 R/W	5 SB	9 9	1	+	9 BR/1	0 ;	10 17	t	14 BR	H	H	H	$\dashv$	19 R	+	21 LG	+	+	24 GR	27	T	Г	31 0	П	П	٦	36 L/0	+	+	+	42 SB	┨											)
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BOSE AUDIO WITHOUT NAVIGATION		WITH DVD ENTERTAINMENT SYSTEM						
Connector No. B30	Connector No. B33		Connector No.		B48	20 G	AV COMM (H)	
Connector Name WIRE TO WIRE	Connector Name TEL	TEL ADAPTER UNIT	Connector Name		SATELLITE RADIO TUNER	22 R	REVERSE	
Connector Type TH32EW-NH	Connector Type	THOSEN-NH	Connector Type	T	AISEM	╀	SENSOR SIGNAL I	
24.	1			1		╁	SENSOR SIGNAL 3	
E	6		13			BR	VEHICLE SPEED (8-PULSE)	
	٤	<u>R</u>	\ \{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\\ \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\ti}\\\ \text{\text{\text{\text{\text{\text{\text{\tex{\tex			GR	ACC	
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iolog	Torminal		Torminal	volor		Τ		
No. of Wire Signal Name [Specification]	_	Signal Name [Specification]	No.	of Wire	Signal Name [Specification]	Connector Name WIRE TO WIRE	RE	
	35 ∀	AV COMM (H)	-	W/L	SOUND SIGNAL LH (-)	Connector Type TK12MW		
3 G	36 BR	AV COMM (L)	2	J/X	SOUND SIGNAL LH (+)	4		
4 SHIELD -	40 G	AV COMM (H)	3	5/X	SOUND SIGNAL RH (-)	B		
5 W/R -	42 GR	AV COMM (L)	4	BR/L	SOUND SIGNAL RH (+)			
- 7/M 9			2	SHIELD	SHIELD	1 2	3 4 5	
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8 GR/V –	Connector No. B39		8	R/W	REQUEST (SAT->CONT)	]	9 10 11	
7/M 6	Connector Name	TEL ADADTER LINIT	6	R/L	COMM (SAT->CONT)			
П			10	В	COMM (CONT->SAT)			
Н	Connector Type TH3	TH32FW-NH	12	>	BATTERY	nal Color	Simal Nama [Spacification]	
12 Y/G –	þ		15	В	GND	No. of Wire	grante Especification	
Н	彦		16	GR	ACC	1 LG	1	
14 BR/L –	S II					2 P	1	
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	Ŀ		Connector Type	╗	TH32FW-NH	1	ī	
SHIELD	Terminal Color	Signal Name [Specification]	4			5	1	
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8	4 B/W	USU		3 5	9 11 13 15 17 19 21 23 25 27			
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ά	6 SHIELD	SHIELD						
4	7 R/W	MICROPHONE SIGNAL	Terminal	Color	Ciccitization Complete Control			
	8 R/L	MICROPHONE GND	No.	of Wire	olgnai Name [opecinication]			
	9 B/R	TEL VOICE SIGNAL (+)	5	SHIELD	SHIELD			
	10 W/R	TEL VOICE SIGNAL (-)	9	В	CAMERA IMAGE SIGNAL			
	14 B	GND	7	R/W	GND			
	Н	CONTROL SIGNAL	8	R/L	CAMERA ON SIGNAL			
	24 B/W	CONTROL SIGNAL	=	SHIELD	SHIELD			
	4	VEHICLE SPEED (8-PULSE)	12	œ	CAMERA IMAGE SIGNAL			
	29 B	MICROPHONE VCC	14	_	CONNECTION RECOGNITION			
			17	BR	AV COMM (L)			
			18	>-	AV COMM (H)			
			19	GR	AV COMM (L)			

JCNWM3197GB

# [BOSE AUDIO WITHOUT NAVIGATION]

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### < ECU DIAGNOSIS INFORMATION >

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JCNWM3198GB

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Revision: 2009 September AV-383 2010 Murano

JCNWM3199GB

[BOSE AUDIO WITHOUT NAVIGATION]

6 7 15 16	[cation]	А	
E6   WIRE TO WIRE   TK16MGY-1V	Signal Name (Specification)	В	
Connector No. Connector Name Connector Type H.S.	1   Calor   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.	D	
	cification] cification] SIGNAL	Е	
DI82 WRE TO WRE TK12FW  5 4 3 5 7 7 12 11 10 9 8 7	Signal Name [Specification]	F	
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WITH DVD ENTERTAINMENT SYSTEM Connector No. D106 Connector Name Read DOOR SPEAKER RH (WITH BOSE SYSTEM) Connector Type INSQFBR-CS	Signal Name [Specification]  To WIRE  MW-NSS  Signal Name [Specification]  Signal Name [Specification]	I J	
WITH DVD ENTERT Connector No. D106 Connector Name REAR DOOR SPE Connector Type NS02FBR-CS HS.	Color   Color   Color	К	
NOTA PER SE		L	
BOSE AUDIO WITHOUT NAVIGATION Connector No.   D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81     D81	Signal Name [Specification]	M	
DDIO V  DB1  WIRE T  TK10M		AV	
Connector Name Connector Type H.S.	Connector Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name   Color Name	0	
BC Common		ICNWM3200GB	
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BOSE AL	BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAINMENT SYSTEM	WITH DVD	ENTERTAINMENT SYSTEM						
Connector No.	E16	Connector No.	E18	2 SB	_	6	30 Y	_	
Connector Name	MO	Connector Name	BACK-LID LAMP BELAY	3 L	1	4	47 P	_	
Collinector Marine		Ociliectol Maille	DOOL OF LOWER REEST	4 R	_	4	48 L	_	
Connector Type	RH24FB-RZ8-L-LH	Connector Type	MS02FL-M2-LC	2 F	1	4	49 SB	_	
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Ě		Ě	Ľ	8 B/W		4)	52 V	-	
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Terminal Color		Terminal Color		14 V	1	Ľ	61 BR	1	
No. of Wire		_		15 Y	1	Ľ	62 0	-	
81 W	APS1	1 LG	-	16 L	-	_	0/7 89	-	
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83 BR	·	3 F.G	-			Ĺ	M 99	-	
84 B	GNDA-APS1	5 R	-	Connector No.	E105	_	7 BR	-	
Н				Coppertor Name	WIRE TO WIRE		Н	_	
86 SB						•	69 SB	-	
Н	AVCC2-APS2	Connector No.	E27	Connector Type	TH70MW-CS10-M3	_	70 GR	_	
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ŀ	H-NACHAV		]	Terminal Color		<u> </u>	ŀ	1	
100	GNDA-APS2			_	Signal Name [Specification]	<u> </u>	08		
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20.		F		7 C		Ϊ	+		
+			Signal Name [Specification]	$^{+}$		Τ	70 00		
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+		-	1	+					
_	GND			-					
4	GND			+					
	CDCV	Connector No.	E104	II.	1				
4	BNCSW	Connector Name	WIRE TO WIRE	4	1				
111 B	GND			13 Y	1				
112 B	GND	Connector Type	NS16FW-CS	_	-				
		4		15 BR	-				
		· · · · · · · · · · · · · · · · · · ·		20 Y	-				
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		<u> </u>	7 6 5 4 7 3 2 1	22 P	-				
		1,7	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	23 P	1				
			10 3	24 L					
				25 0	-				
				26 G	-				
		Terminal Color	Cimol Nama [Sacation]	H					
		No. of Wire		28 SB					
		1	1	_	1				

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BOS	E AU	BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAINMENT SYSTEM	MITH N	DVD E	NTERTAINMENT SYSTEM		
Connector No.	tor No.	F23	Connector No.		F123	Connector No.	M3
Connect	Connector Name	TCM (TRANSMISSION CONTROL MODULE)	Connecto	Connector Name	WIRE TO WIRE	Connector Name	FUSE BLOCK (J/B)
Connect	Connector Type	RH40FB-RZ8-L-RH	Connector Type	П	TK16FGY-1V	Connector Type	NS12FW-CS
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H.S.	2 3	32 33 34 35 36 37 38 39 40 47 48 22 23 24 25 26 27 28 29 30 45 46	H.S.		654 = 321	H.S.	5C/4C  3C 2C 1C
				16	16 15 14 13 12 11 10 9 8		12d11d10d9cl8cJ7cl6c]
Terminal No.	al Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal Color No. of Wire	Signal Name [Specification]
-	B/B		-	_	1	t	1
2	P/L	INH SW 3	က	G/R	1	7C B	1
8	0/5	INH SW 4	4	g/B	1	$\dashv$	1
4	g d	INH SW 3 MON	2	٤ ء	1	+	'
0	ກ ≥	SENSOR GND	۵ م	ž		110 28	
- ∞	. Q/N	CLOCK (SEL2)	02	Y/B	1	L	1
6	L/R	0	Ξ	BR/W	1		
10	BR/R	DATA I/O (SEL3)	12	BR	1		
Ξ	BR/W		13	ŋ	1	Connector No.	M4
13	>	ATF TEMP SENSOR	14	В	1	Connector Name	DATA LINK CONNECTOR
14	R/W	PRI PRESS SENSOR	15	0	1		П
12	W/V	SEC PRESS SENSOR				Connector Type	BD16FW
19	g/B			ſ		4	
50	R/B	s	Connector No.	T	M1	手	
25	× .	SENSOR GND	Connector Name		FUSE BLOCK (J/B)	HS	07 17 77 07 07 07 07 07
97	2 5	SENSOR POWER SOURCE(3V)	F	Т	CF 110001		9 10 11 17 13 14 13 10
77	2 0	G-W/S	Connect	7	4SU6FW-MZ	_	1 2 3 4 5 6 7 8
8	0/8	S.W-B	1			<u> </u>	
30	G/R	S/M-A				l	
31	۵	CAN-L	Ġ.		3A 2A 1A	Terminal Color	N I manig
32	٦	CAN-H			O A 74 64 54 44	No. of Wire	
33	LG				VE 1.00 1.01 1.00 1.00 1.00 1.00 1.00 1.0	4 B	-
34	LG/R					5 B	1
37	Α/Υ	L/U&SEL-ON/OFF SOL		Ļ		9	1
88	Λ	L/U&SEL LINEAR SOL	Terminal		Signal Name [Specification]	+	1
38	M/B	SEC-LINEAR SOL	ė.	of Wire		4	1
40	≨	PL LINEAR SOL	₹	>	ī	14 P	1
45	œ	GND	2A	g	1	16 Y	1
46	>	VIGN	34	>	t		
47	Γ,	BATT	4 <b>4</b>	æ	1		
48	>	VIGN	2 <b>A</b>	œ	I		
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45 P -	τ >	51 0 -	GR	œ .	53 V -[Without automatic drive positioner]	. _[]	9	SB	55 O -[Without automatic drive positioner]		Connector No. M22	Connector Name WIRE TO WIRE	Connector Type TH12FW-NH	7		7	֡֜֞֜֜֜֜֜֜֜֜֜֜֓֓֓֓֜֜֜֜֜֓֓֓֓֓֓֓֜֜֜֜֜֓֓֓֓֜֜֜֡֓֓֡֓֡֓֡֓֜֡֓֡֓֡֓֡֡֡֡֓֡֓֡֡֡֓֜֡֡֡֡֡֓֜֡֡֡֡֡֡	:n	12 11 10 9 8 7		Tarminal	_	t	2 R -	3 8	9	- M C	t	8 SHIELD -	9 BR –	10 SHIELD -	+	12 R = =										
32 Y	34 SB	2		W	Т	Connector Name WIRE TO WIRE	Connector Type TH40MW-CS15	4		H.S. [1 2 3 4 5 6 7 8 9 10 11 12 13 14 15]	11617718192021222324256 3637383340414243444546			Terminal Color	_		2 G -	* (	m .				H	+	Н	В	15 GK	- × 1		19 Y	20 SB –	<b>a</b> .:	> 3	- M 02		31 SB -	32 W -	Н	-	35 R		+	+ + + + + + + + + + + + + + + + + +
I DVD ENTERTAINM	M 89	9	Н	72 BR -	/3 L	╁	76 R –	5		79 G = -	Н	82 W -	+		Connector No. M18	Connector Name WIRE TO WIRE	$\neg$	Connector Type TH40MW-CS15	4		H.S. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	[18] 17] 18] 19[20[21] 29[23[23[28] 28] [28] [28] [28] 29] 29[28] 28] 28]	27 28 29 30 31 32 33 34 35 47 48 49 50 51 52 53 54 55		ı	Terminal Color Signal Name [Specification]	╈	2 > 2	4 W	5 B -[With BOSE system]	5 BR -[Without BOSE system]		5 4	0 M	: >	╁		Н	-	+	╀	0 67	31 \
BOSE AUDIO WITHOUT NAVIGATION	Connector Name WIRE TO WIRE	Connector Type TH70FW-CS10-M3	1		-1040 0 4 711 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					Terminal Color   Signal Name [Specification]   No.   of Wire   Signal Name [Specification]		a (	0 0	, o		d	12 L –	>:	> (	χ,	- 1 07 16 16 16 16 16 16 16 16 16 16 16 16 16	H C	1 0	. >	25 L –	+	- 0 12	╁	ď	47 p	48 L –	×	GR			. SB			$\dashv$	61 GR	- X	17	- M 99

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# [BOSE AUDIO WITHOUT NAVIGATION]

### < ECU DIAGNOSIS INFORMATION >

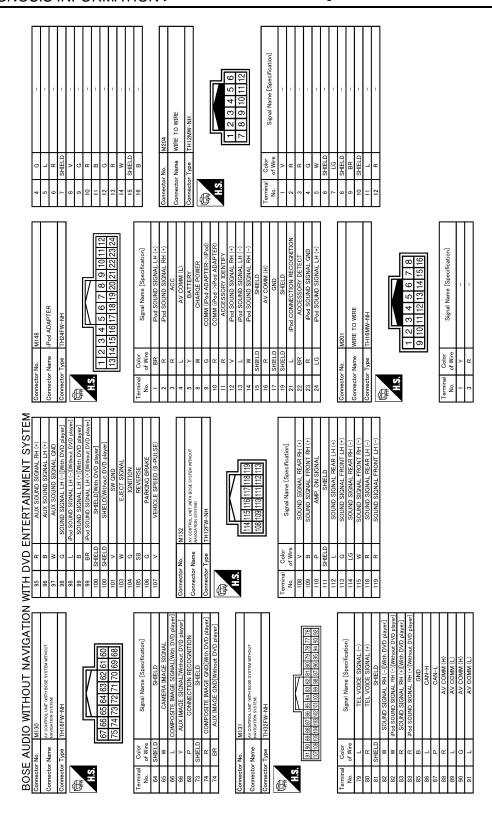
14 13   14 13   14 13   14 13   14 13   14 13   14 13   14 13   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 15   15 1	Α
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AMBIENT SENSOR  AMBIENT SENSOR POWER  AMBIENT SENSOR POWER  AMBIENT SENSOR POWER  CAN-H CAN-H CAN-H CAN-H CAN-H CAN-H FUEL LE'VEL SWITCH PARKING BRAKE SWITCH WASHER LE'VEL SWITCH WASHER LE'VEL SWITCH WASHER LE'VEL SWITCH WASHER LE'VEL SWITCH WASHER LE'VEL SWITCH WASHER LE'VEL SWITCH WASHER LE'VEL SWITCH WASHER LE'VEL'S SPEED (2-POLISE) OD OFF-SEDOR'S OD OFF-SEDOR'S SEAT BELT BUCKLE SWITCH (PASSENGER SIDE) SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)  SIGNAL BUCKLE SWITCH (PASSENGER SIDE)	_
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Connector Name   Covernation Switch (SPIRAL CARLE)   Connector Name   Covernation Switch (SPIRAL CARLE)   Connector Type   TKGBFGV-1V	J
No.   M33	K
Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Connector Nome   Conn	TX.
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Connector Name   Connector Name   Connector Name   Connector Type   Connector Type   Connector Type   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connec	0
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<b>BOSE AUDIO WITHOUT NAVIGATION</b>		DVD	WITH DVD ENTERTAINMENT SYSTEM							
Connector No. M65	-	BR	1	37	<b>&gt;</b>	1	90	g	1	
THOOLE INCOME.	2	۳	-[With BOSE system]	40	0	1	91	5	1	
Connector Name FRON SQUAWNER LA	2	Μ	-[Without BOSE system]	41	0	1	95	BR	1	
Connector Type TK02FBR				45	SB	1	93	۵	1	
1				43	Ľ	1	94	>	1	
	Connector No.	tor No.	M77	44	>	1	92	0	-	
				45	۵	1	96	ay.	1	
	Connec	Connector Name	WIRE TO WIRE	46	. ~	1	97	3 -	1	
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е			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	52	m	ı	Connect	Connector Name	WIRE TO WIRE	
1 LG -[With BOSE system]			8 1 2 1 2 1	23	뚪	1		П		
1 L -[Without BOSE system]				54	æ	1	Connect	Connector Type	TH16FW-NH	
2 Y –[With BOSE system]				22	G	1				
2 B -[Without BOSE system]	Terminal	al Color		26	۵	1	1			
	Š	_	Signal Name [Specification]	57	-		1			
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Consector Name   CENTER SPEAKER	က	W		09	В				16 15 14 13 12 11 10 9	
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	12	В	1	70	7	1	9	α	1	
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Connector Type IP16FGY	Connector Type GT13SC-2/1S-HU	2	2 SHIELD -[With telephone and navigation system]
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1 17	75	Connector Type GT13SSN-1/1PP-HU	t
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	3	唐	- B 6
L	⊢	HS.	$\dagger$
Signal Name [Specification]	Signal Name [Specification]	<u> </u>	W/d 0
5		N N	╀
2 R iPod SOUND SIGNAL GND	34 – AM-FM MAIN		H
Ц	35 – ANTENNA AMP. ON SIGNAL		16 R –
6 G COMM (iPod ADAPTER->iPod)		Terminal Color Signal Name [Specification]	
٥	Connector No M375	+	Connector No IP20
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W CHAF	Connector Name WIRE TO WIRE	_	Connector Name MICROPHONE
SHELD	Connector Type GT13SH-2/1S-HU		Connector Type TK04FW
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œ		Connector Name GLASS ANTENNA	<b>ょ</b>
	SH SH	$\neg$	HS.
Connector No M303		Connector Type G113SCN-1/1PP-HU	
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Connector Type TK08FGY	ŀ		Ŀ
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	Terminal Color Signal Name [Specification]		

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N WITH DVD ENTERTAINMENT SYSTEM Connector No.   R153	Connector Name WIRE TO WIRE	Connector Type TH32FW-NH	医	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 1 32 3 1 32 31 30 28 27 28 25 24 23 22 21 20 19 18 17	Terminal Color Signal Name [Specification]	1 Y/R -	2 B -	4 SHIELD -	2 FG	- ^ 9	7 SHIELD -	8 BR -	- A 6	10 SHIELD -	11 W/L -	12 Y/G –	13 Y/L -	14 BR/L -	- E G	18 V/Y –	21 LG -		23 SHIELD –	_	25 W -	26 R -	27 SHIELD -	28 G -	29 R –	30 SHIELD -	31 R -	
BOSE AUDIO WITHOUT NAVIGATION	REAR DISPLAY UNIT	TH32FW-NH		8 10 12 14 16 18 20 22 24 26 28 30 32 7 9 11 13 15 17 19 21 23 25 27 29 31	Signal Name [Specification]	GND	GND	BATTERY	BATTERY	HEADPHONE ON SIGNAL	ACC	SHIELD	COMM (DISP->DIST)	COMM (DIST->DISP)	IGNITION	SHIELD	COMPOSITE SYNC	COMPOSITE IMAGE SIGNAL	RGB AREA (YS) SIGNAL	GND	VP	HP	RGB GND	RGB (B:BLUE) SIGNAL	RGB (G:GREEN) SIGNAL	RGB (R:RED) SIGNAL	SHIELD	SHIELD	HEADPHONE SOUNDSIGNAL SIGNAL RH (-)	HEADPHONE SOUNDSIGNAL SIGNAL LH (-)	HEADPHONE SOUNDSIGNAL SIGNAL RH (+)	(1) III IANOIS IANOISONALOS PIAGUIGAAPIL
E AUD	r Name	П		2 4 6 1 3 5	Color of Wire	В	В	Y/R	Y/R	В	٨/٨	SHIELD	۸	57	9	SHIELD	9	ч	В	SHIELD	œ	W	W/L	J//	J/X	BR/L	SHIELD	SHIELD	ÐΠ	BR	۸	,
BOSE A	Connector Name	Connector Type	修		Terminal No.	-	2	3	4	5	9	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	90

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# **IPOD ADAPTER**

Reference Values



#### PHYSICAL VALUES

	minal e color)	Description			Condition	Reference value (Approx.)					
+	_	Signal name	Input/ Output		Condition						
1 (BR)	13 (L)	iPod sound signal LH	Output	Ignition switch ON	When iPod mode is selected.	(V) 1 0 -1 + 2ms SKIB3609E					
2 (R)	14 (W)	iPod sound signal RH	Output	Ignition switch ON	When iPod mode is selected.	(V) 1 0 -1 + 2ms SKIB3609E					
3 (R)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage					
4 (L)	_	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**

## [BOSE AUDIO WITHOUT NAVIGATION]

	rminal e color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
9 (G)	Ground	Communication signal (iPod adapter→iPod [®] )	Output	Ignition switch ON	The wave pattern is displayed just after iPod connection.	JPNIA0462GB  NOTE:  After the wave pattern display, the value continues Approx 3.3 V
10 (R)	Ground	Communication signal (iPod [®] →iPod adapter)	Input	Ignition switch ON	Connected to iPod [®] .	(V) 3 2 1 0 ***2ms
11 (R)	Ground	ACCESSORY-IDENTIFY	_	Ignition switch ON	Connected to iPod [®] .	0 V
12 (V)	23 (R)	iPod sound signal RH	Input	Ignition switch ON	When iPod mode is selected.	(V) 1 0 -1 *** 2ms SKIB3609E
15	_	Shield	_	_	_	_
16 (R)	_	AV communication signal (H)	Input/ Output	_	_	_
17	Ground	Ground	_	Ignition switch ON	_	0 V
19	_	Shield	_	_	_	_
21 (L)	Ground	iPod connection recognition signal	Input	Ignition switch	Not connected to iPod [®] .	4.0 V
22 (BR)	Ground	ACCESSORY-DETECT	_	ON Ignition switch ON	Connected to iPod [®] .  Connected to iPod [®] .	0 V
24 (LG)	23 (R)	iPod sound signal LH	Input	Ignition switch ON	When iPod mode is selected.	(V) 1 0 -1 + 2ms SKIB3609E

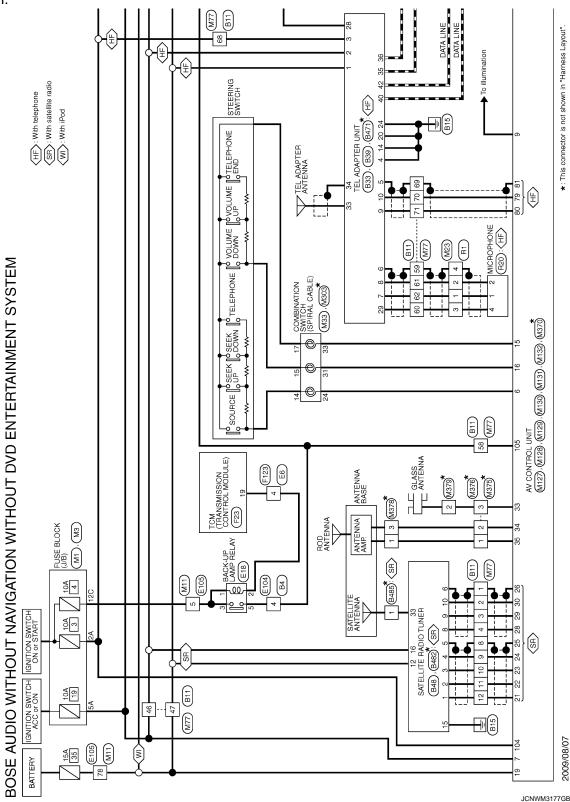
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION WITHOUT DVD ENTER-

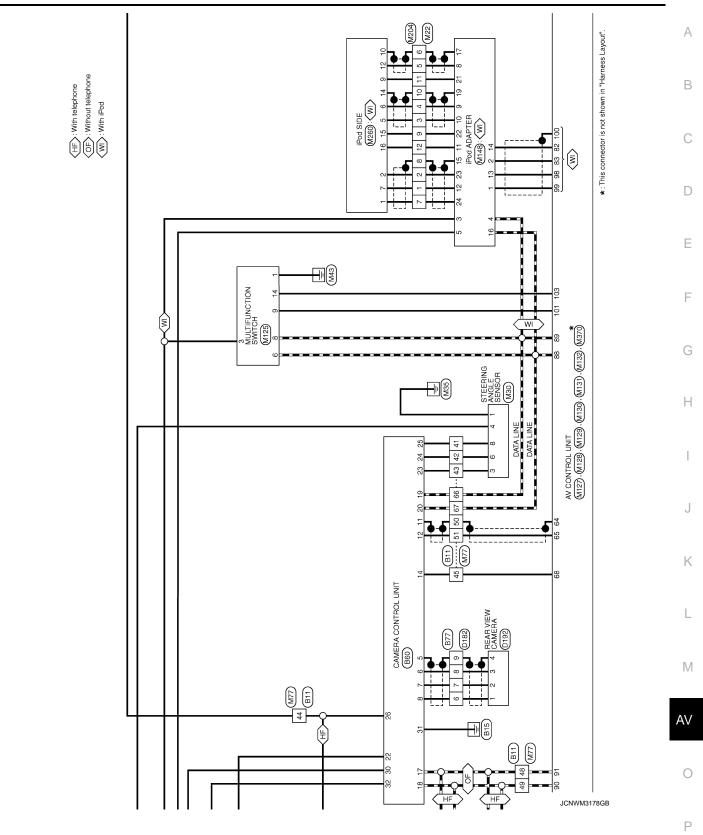
## TAINMENT SYSTEM -

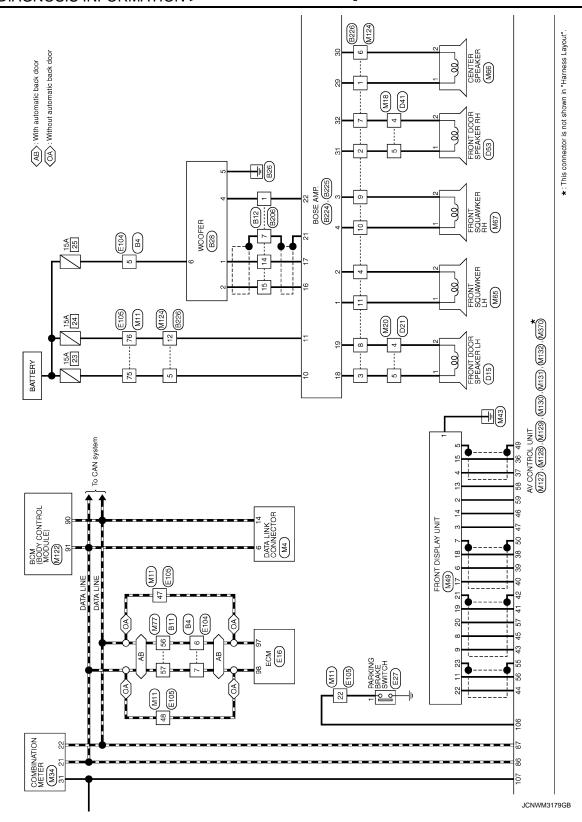
INFOID:0000000005528599

#### NOTE:

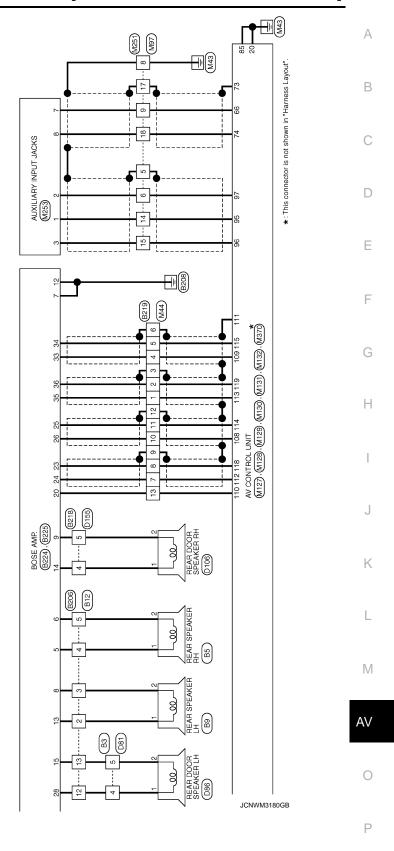
In this section, PRESET SWITCH and MULTIFUNCTION SWITCH are written as the MULTIFUNCTION SWITCH.

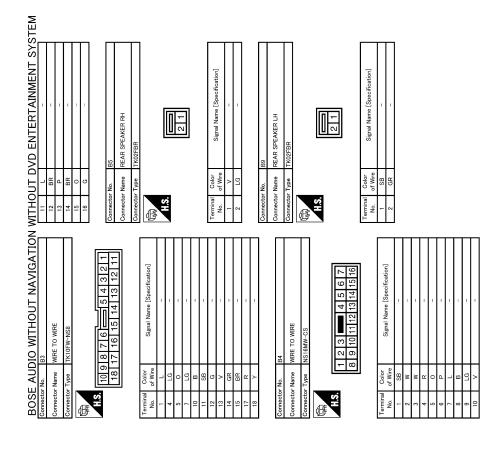






# [BOSE AUDIO WITHOUT NAVIGATION]





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Revision: 2009 September AV-403 2010 Murano

13 R - 14 W/R - 15 B/R -	Connector Name	Terminal Color		00	5 B/P[Without BOSE system] 10 D	n > 0	H	Н	567	4 15 16	peofication]					
STEM  Connector No. B77  Connector Name WIRE TO WIRE  Connector Type TK12MW	H.S. 12 3 4 6 7 8 9 10 11	Terminal Color   Signal Name [Specification]   1 Color   1 Color   2 Polor   2 Polor   4 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor   1 Polor	6 R/L	SHELD	11 0 12 V	Connector No 18206	e	Connector Type NS16MW-CS	HS. [12] [14]	8 9 10 11 12 13 14 15 16	Terminal Color Signal Name [Specification]	2 GR 3 BR ×	- BB	7 SHIELD -	M 2	_ ^ 0I
WITHOUT DVD ENTERTAINMENT SYSTEM           9         R/L         COMM (SAT->CONT)         Cont           10         B         COMM (CONT->SAT)         Cont           12         V         BATTERY         Cont           15         Cont         Cont         Cont	B60 CAMERA CONTROL TH32FW-NH	2 4 6 8 1012 14 16 18 20 22 24 25 28 26 26 30 32 1 1 3 5 7 1 9 11 13 15 17 19 21 22 25 25 27 29 31	Color Signal Name [Specification]	S CAMERA:	R/W GND R/L CAMERA ON SIGNAL	CONNECT	BR AV COMM (L) Y AV COMM (H)			SENSC VEHICLE S	B GND V BATTERY					
위	Connector No. Connector Name Connector Type	(E)	Terminal No.	9	7 8 ;	12	17	19	22 23 25	25 30	32					
Sometor No.   639   Sometor No.   639   Sometor Name   TEL ADAPTER UNIT   10   10   10   10   10   10   10   1			<u> </u>				_	_				_	_			_

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1	Connector Name SATELLITE PADIO TUNER Connector Name SATELLITE PADIO TUNER  Terminal Color Signal Name (Specification) 33 SATELLITE ANTENNA Connector Name Systew Windows Systew Connector Name Systew Windows Systew Connector Name Systew Windows Systew No. of Vivre Signal Name (Specification) 1 SATELLITE ANTENNA  Connector Name FRONT DOOR SYSTEM  Connector Name FRONT DOOR SYSTEM  Connector Name FRONT DOOR SYSTEM  Connector Name FRONT DOOR SYSTEM  Connector Name FRONT DOOR SYSTEM  Connector Name FRONT DOOR SYSTEM  Connector Name FRONT DOOR SYSTEM  Connector Name FRONT DOOR SYSTEM  Connector Name FRONT DOOR SYSTEM  Connector Name FRONT DOOR SYSTEM  SIGNAI Name [Specification]  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color	A B C
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BOSE AU Commetter No. Commetter Type Commetter Type HS IGERE	Pr No.	Connector No.   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21   D21	WITHOUT	DUT DVD ENTEF  L - (With auto P - (With suce LG - (With auto LG - (With auto LG - (With auto D4)  PN - (With auto D7 N - (With auto D7 N - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8) PN - (Without aut D8	WITHOUT DVD ENTERTAINMENT SYSTEM	Connector No. Connector Name Connector Type HS.		DSS FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM) NSDZFBR-CS	Connector No. D66 Connector Name REAR DOOR SPEAKER LH (WITH BOSE SYSTEM) Connector Type NS02FBR-CS  TIS
			Connector Type	or Type TH40FW-CS15					
Terminal No.	Color of Wire	Signal Name [Specification]	<b>€</b>			Terminal No.	Color of Wire	Signal Name [Specification]	Terminal Color Signal Name [Specification]
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JCNWM3185GB

Signal Name [Specification]	A
BACK-UF MS02FI-	С
Commettor No.  Commettor Name  Commettor Type  Terminal Color  Oomnector No.  Commettor Type  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Terminal Color  Termina	D
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E16  ECM  RH24FB-R28-L-LH    E2   66   91   94   96   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110   110	F
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D	J
12   Connector Name   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN   MIN	K
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Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Conn	
BOST   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector   Connector	0
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Connector Type NS16FW-CS	13 13 15	+++-	1 1 1 1 1	3 8 8 8	Connector No.		F23 TOM (TRANSMISSION CONTROL MODULE) RH40FB-RZ8-L-RH	Connector No. Connector Typ	Connector No.	F123 WIRE TO WIRE TK16FGY-1V
4 13 2 1 13 12 11 10 9 8	22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	> H a a - 0 c	1 1 1 1 1 1 1		H.S.	31 32 33 34 21 22 23 24 11 12 13 14 1 2 3 4	35.563 77.88 39.40 47.48 15.56 77.88 29.40 47.48 15.61 77.81 92.04 43.44 15.61 77.81 91.00 41.42	H.S.	<u> </u>	7 6 5 4 3 2 1
Signal Name [Specification]	27	₩		L ^e	rerminal C No. of	Color of Wire	Signal Name [Specification]	Terminal No.	al Color of Wire	Signal Name [Specification]
1 1	30 3	+	1 1	<u> </u>	- 2	P/B	INH SW 2	-   8	G/R	1 1
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Connector No.   M20   WITHOUT NAVIGATION WITHOUT DVD ENTERTAINMENT SYSTEM	Terminal Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Col	2 SHIELD -[With telephone and navigation system]
Connector No. M20 Connector Name WIFE TO WIFE Connector Type TH40MW-CS15  Connector Type TH40MW-CS15  Connector Type TH20MW-CS15  Connector Type TH20MW-CS15  Connector Type TH20MW-CS15  Th40MW-CS15  Terminal Color		52 R[Without automatic drive positioner]

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SPEAKER    Signal Name [Specification]	АВ
Connector No. Mété Connector Type TK02FBR  Connector Type TK02FBR  Terminal Color No. of Wire  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No. M67  Connector No.	C
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BOSE AUDIO WITHOUT NAVIGATION	7	THOUT	WITHOUT DVD ENTERTAINMENT SYSTEM	_		1		
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Connector Name WIRE TO WIRE	<u> </u>	46 43		90 20		74	<b>&gt;</b>	PASSENGER DOOR ANT-
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) ]	L	╀				8	æ	COMBI SW INPUT 3
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Œ		+	1			92	_	ACC RELAY CONT
*		$\dashv$	1	ŀ		96	≻	CVT SHIFT SELECTOR POWER SUPPLY
- M 9	_	63	1	la l	Signal Name [Specification]	97	0	S/L CONDITION 1
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8 SHIELD -		P 99	1	1 W	1	66	>	SHIFT P
-			-	2 SHIELD	_	100	۵	PASSENGER DOOR REQUEST SW
10 R –		68 G	_	5 SHIELD	-	101	Μ	DRIVER DOOR REQUEST SW
		69 SHIELD		M 9	_	102	<b>&gt;</b>	BLOWER FAN MOTOR RELAY CONT
		70 L	_	8 B	_	103	٦	KEYLESS ENTRY RECEIVER POWER SUPPLY
13 0 -		71 R	-	. A	-	106	Υ	S/L POWER SUPPLY
14 R –		72 LG	-	10 B	1	107	0	COMBI SW INPUT 1
•,		73 Y	-	11 B	1	108	a.	COMBI SW INPUT 4
		_	_	14 R	_	109	SB	COMBI SW INPUT 2
- v _ 71		75 P	-	15 B	-	110	В	HAZARD SW
		J 92	1	17 SHIELD		111	PC	S/L COMM
Д		77 BR		18 B	-[With navigation system]			
FG	<u></u>	78 SHIELD	OT	18 BR	-[Without navigation system]			
*	<u></u>	79 B	1	19 B	1			
22 0 -		W 08	-	20 G	-			
LG		81 LG	-					
24 SB -		82 T	1					
>	<u></u>	83 W	-[With automatic drive positioner]	Connector No.	M122			
*	<u></u>	83 GR	-[With driver side power seat]		(7 HIGGS LOGITINOS VICE) MOG			
~	L	H		Connector Name	BCM (BODY CONTROL MODULE)			
>	<u>L</u>	┞	-[With front heated seat and passenger side power seat]	Connector Type	TH40FB-NH			
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Terminal   Color   Signal Name [Specification]   No. of Wire   No. of Wire   Signal Name [Specification]   1   L.   E.   E.   E.   E.   E.   E.   E.	15   BR   ACCESSORY DETECT	Terminal Color   Signal Name [Specification]	
Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   Nation   N	18   R	Terminal   Color   Signal Name [Specification]   No. of Wee   SOUND SIGNAL RH (+)   No. of Wee   SOUND SIGNAL RH (+)   SOUND SIGNAL RH (+)   SOUND SIGNAL RH (+)   SOUND SIGNAL RH (+)   SOUND SIGNAL RH (+)   Without DVD player]   No. of SOUND SIGNAL RH (+)   Without DVD player]   No. of SOUND SIGNAL RH (+)   Without DVD player]   No. of SHIELD   SHIELD   SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD   No. of SHIELD	Connector No. M280 Connector Name Pod SIDE Connector Type IP16FGY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
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BOSE AUDIO WITHOUT NAVIGATION  Connector No. M132  Connector Nome (Autorito), certain store system with sore connector Type TH12PW-NH  TH12PW-NH  TH12PM-NH  TH2PM-NH  T		Connector Name   Pod ADAPTER	Terminal   Color   Signal Mane [Specification]   Color   1   ER   Pod SOUND SIGNAL LH (+)   2   R   Pod SOUND SIGNAL LH (+)   3   R   Pod SOUND SIGNAL RH (+)   4   L   AV COMM (L)   4   L   AV COMM (L)   5   Y   COHARCE POWER   8   W   COMM (Pad-ADAPTER-) Pod)   10   R   COMM (Pad-ADAPTER-) Pod)   10   R   COMM (Pad-ADAPTER-) Pod)   11   R   ACCESSORY (DENTIFY   12   V   Pod SOUND SIGNAL RH (+)   13   L   Pod SOUND SIGNAL RH (+)   14   W   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGN

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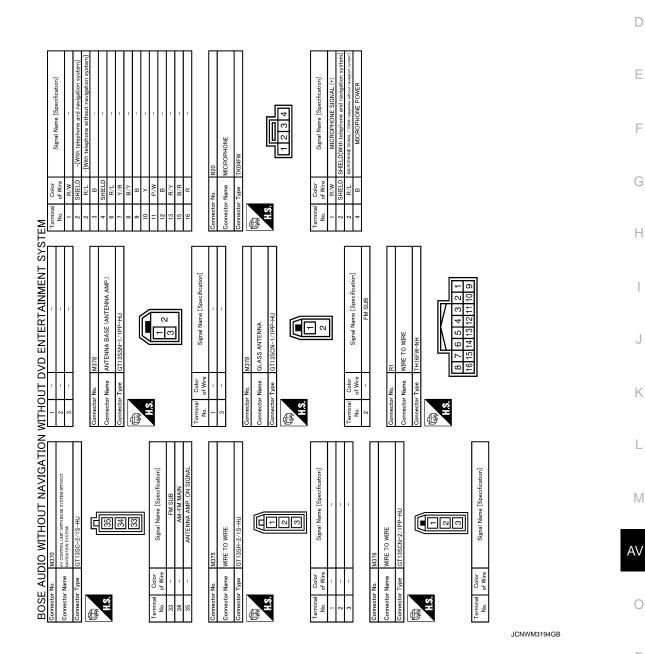
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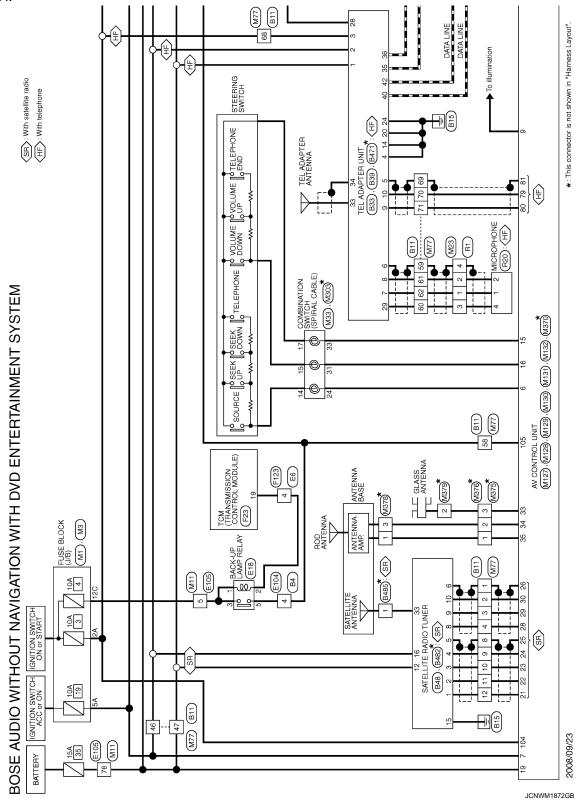
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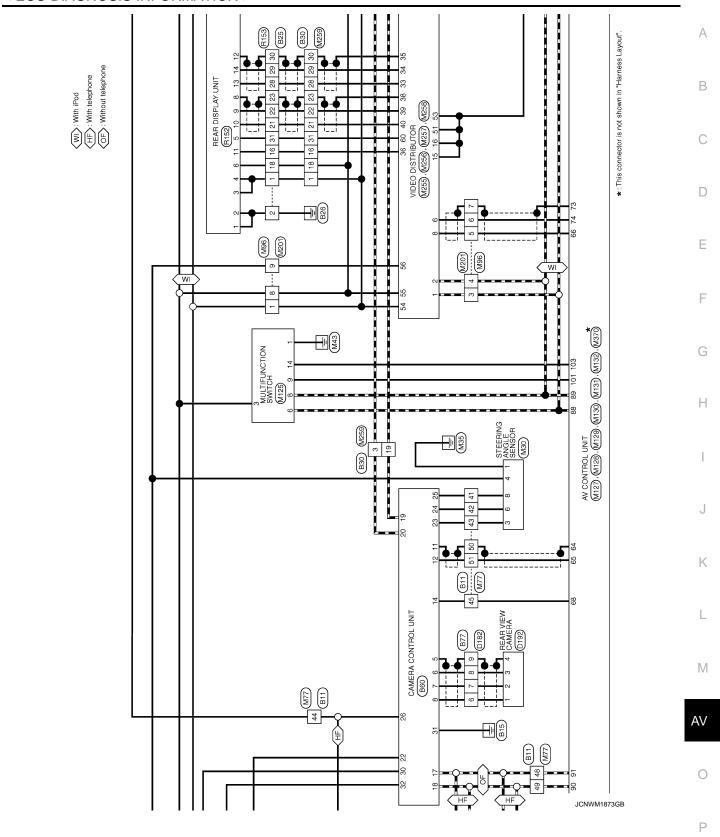


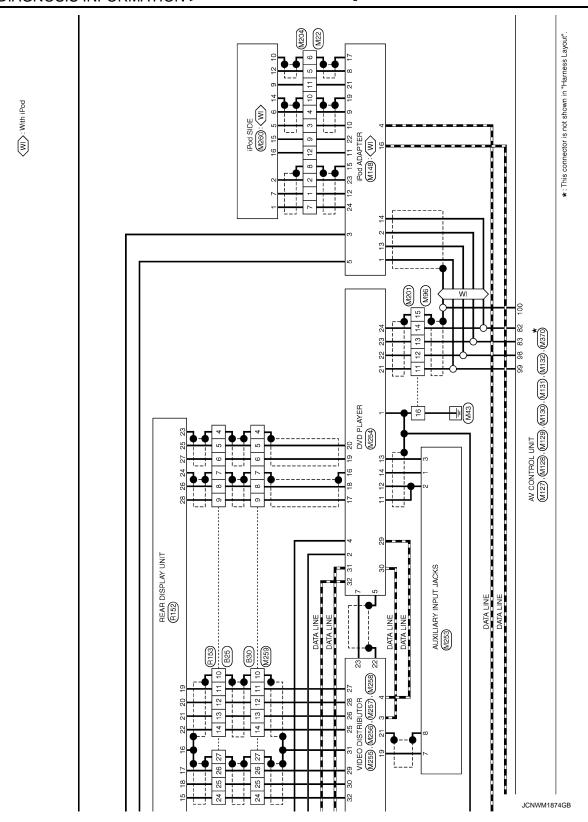
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAIN-**MENT SYSTEM -**INFOID:0000000005528600

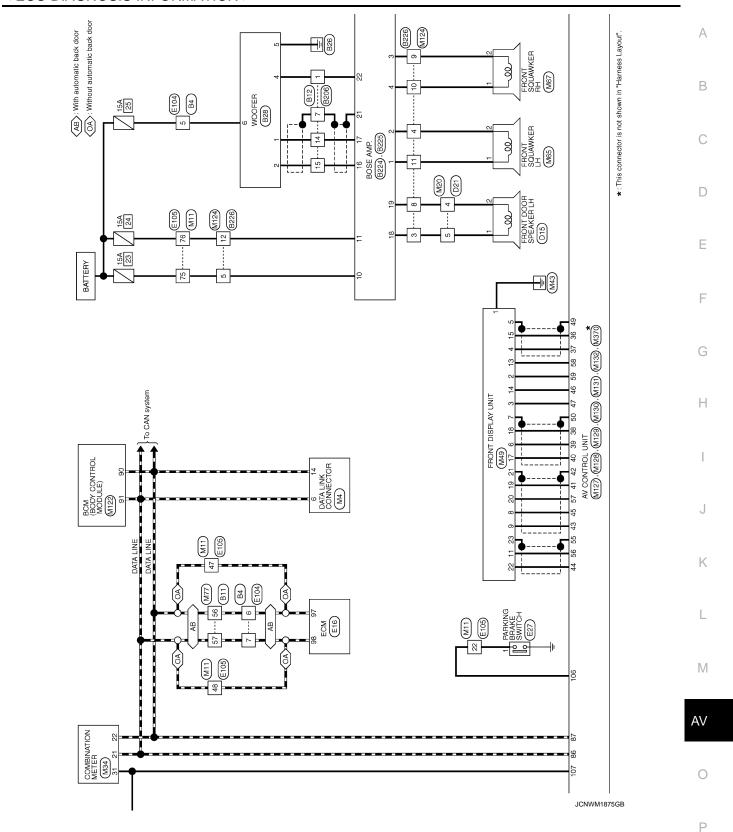
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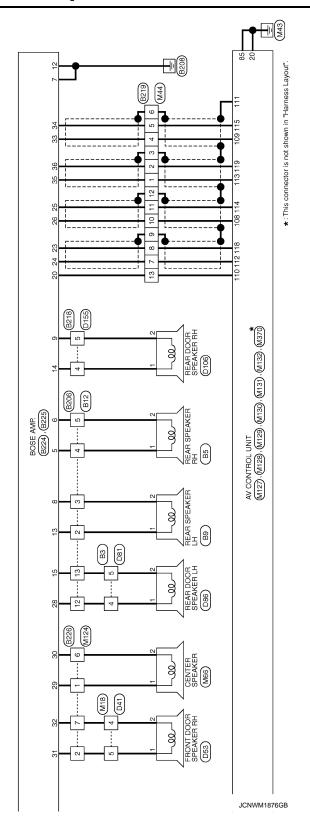
In this section, PRESET SWITCH and MULTIFUNCTION SWITCH are written as the MULTIFUNCTION SWITCH.











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Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Signal   Name   Specification   Specification   Signal   Name   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specification   Specificatio	BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAINMENT SYSTEM   Connector Name   WRE TO WRE   E WRE WRE WRE WRE WRE WRE WRE WRE	Connector Type TK02FBR	Terminal   Color   Signal Name [Specification]   1   V	H.S.    Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color
	WITHOUT NAVIGATION \	Signal Name [Specification]		Signal Name (Specification)

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季			" [	48 H	-[With rear view camera without telephone]		Γ		6	W/L	1
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25	>	1	"	H		Connect	Connector Name	WIRE TO WIRE	Terminal	Color	4
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Connector No.	tor No.	B206	12			23	T/M	SOUND SIGNAL REAR LH (-)	
Connect	Connector Name	WIRE TO WIRE	13			24	GR/V	SOUND SIGNAL REAR LH (+)	
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Connec	Connector Type	NS16MW-CS	12	SB - Connector Type   SGA12FBR-SJA2	A2	56	GR/V	SOUND SIGNAL REAR RH (+)	
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O	ot Wire			of Wire					
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4	_	-[With BOSE system]		B/R	SOUND SIGNAL WOOFER (+)				
4	0	-[Without BOSE system]		17 W/R SOUND	SOUND SIGNAL WOOFER (-)				
2	0	-[With BOSE system]		18 W SOUND SIGNAL	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)				
2	B/P	-[Without BOSE system]		19 B SOUND SIGNAL	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)				
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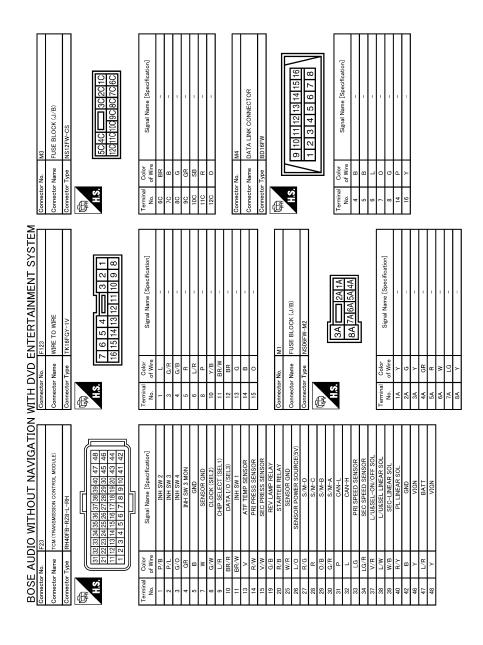
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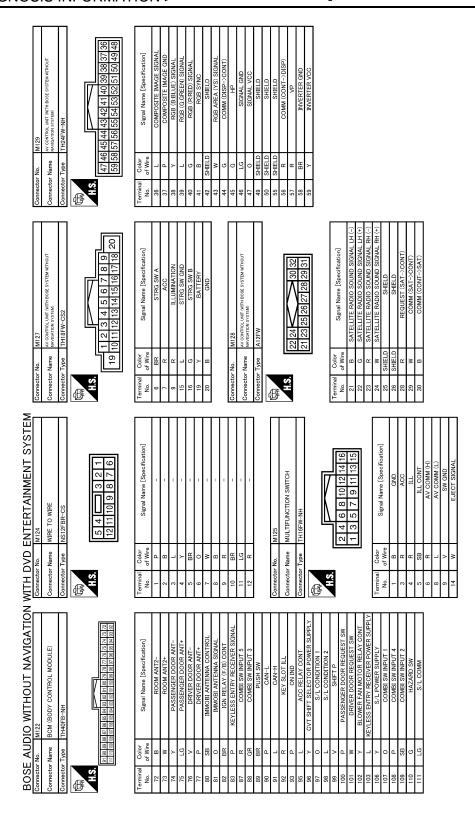
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Revision: 2009 September AV-431 2010 Murano



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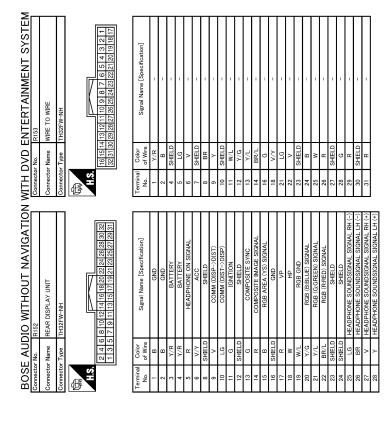
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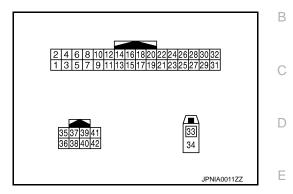
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Pod SIDE     Pod SIDE     Pod SIDE     Pod SIDE     Pod SIDE     Pod SIDE     Pod SIDE     Pod SIDE     Pod SIDIN     Pod SIDIN     Pod SIDIN   Signal Name (Specification)     Pod SIDIN   SIGNAL CIND     Pod CONNECTION   RECOGNITION   Pod SIDIN   SIGNAL CIND     Pod CONNECTION   RECOGNITION   Pod CONNECTION   Pod CONN	M
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BOSE AUI   Connector No.   Connector No.   Connector No.   Connector Type   Connector Type   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.	0
JCNWM3209GB	Р

Revision: 2009 September AV-435 2010 Murano



JCNWM3210GB

Reference Values



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ΑV

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INFOID:0000000005528601

#### PHYSICAL VALUES

	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
1 (V)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage
2 (GR)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage
3 (R)	Ground	Ignition signal	Input	Ignition switch ON	_	Battery voltage
4 (B/W)	Ground	ground	_	Ignition switch ON	_	0 V
5	_	Shield	_	_	_	_
6	_	Shield	_	_	_	_
7 (R/w)	8 (R/L)	Microphone signal	Input	Ignition switch ON	Give a voice	(V) 2.5 2.0 1.5 1.0 0.5 0.5 0 + 2ms
8 (R/L)	Ground	Microphone GND	_	Ignition switch ON	_	0 V
9 (B/R)	10 (W/R)	TEL voice signal	Output	Ignition switch ON	During voice guide output with the v  ✓ switch pressed	(V) 1 0 -1 + 2ms SKIB3609E

#### < ECU DIAGNOSIS INFORMATION >

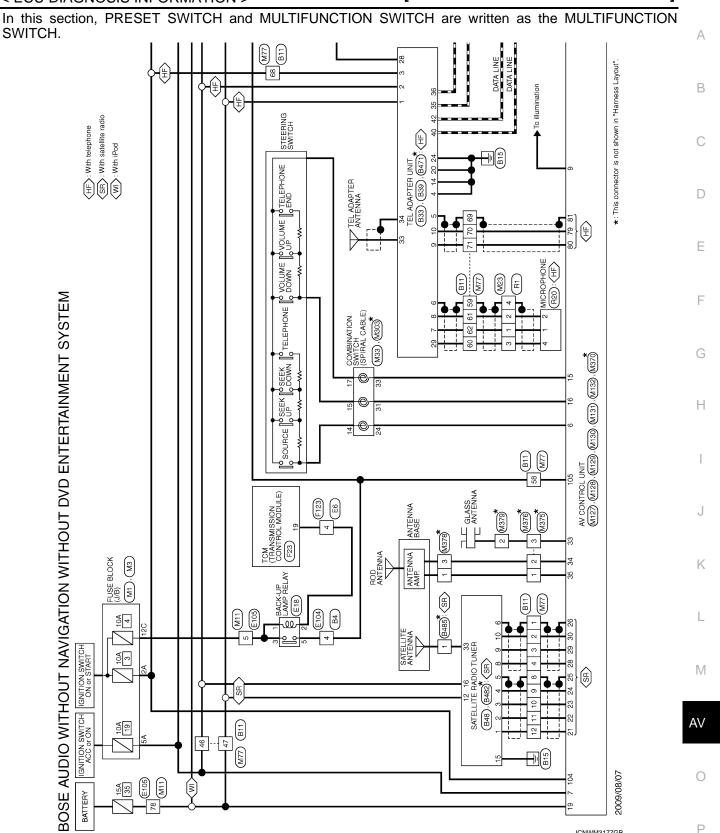
#### [BOSE AUDIO WITHOUT NAVIGATION]

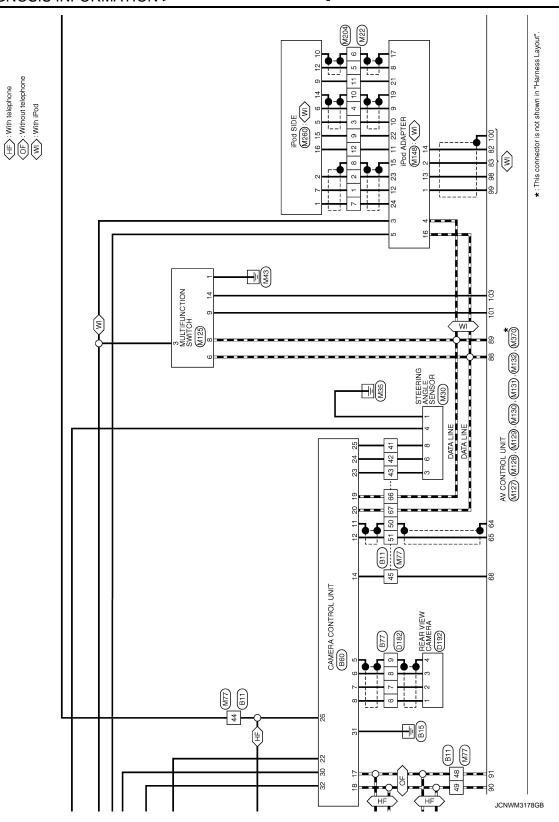
	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
14 (B)	Ground	GND	_	Ignition switch ON	_	0 V
20 (B)	Ground	Control signal	Input	Ignition switch ON	_	0 V
24 (B/W)	Ground	Control signal	Input	Ignition switch ON	_	0 V
28 (BR)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is approx. 40 km/h (25MPH)	NOTE:  Maximum voltage may be 12 V due to specifications (connected units).  (V)  4 2 0  SKIA6649J
29 (B)	Ground	Microphone VCC	Output	Ignition switch ON	_	5.0 V
33	_	TEL antenna	Input	_	_	_
34	_	Shield			_	_
35 (Y)	_	AV communication signal (H)	Input/ Output	_	_	_
36 (BR)	_	AV communication signal (L)	Input/ Output	_	_	_
40 (G)	_	AV communication signal (H)	Input/ Output	_	_	_
42 (GR)	_	AV communication signal (L)	Input/ Output	_	_	_

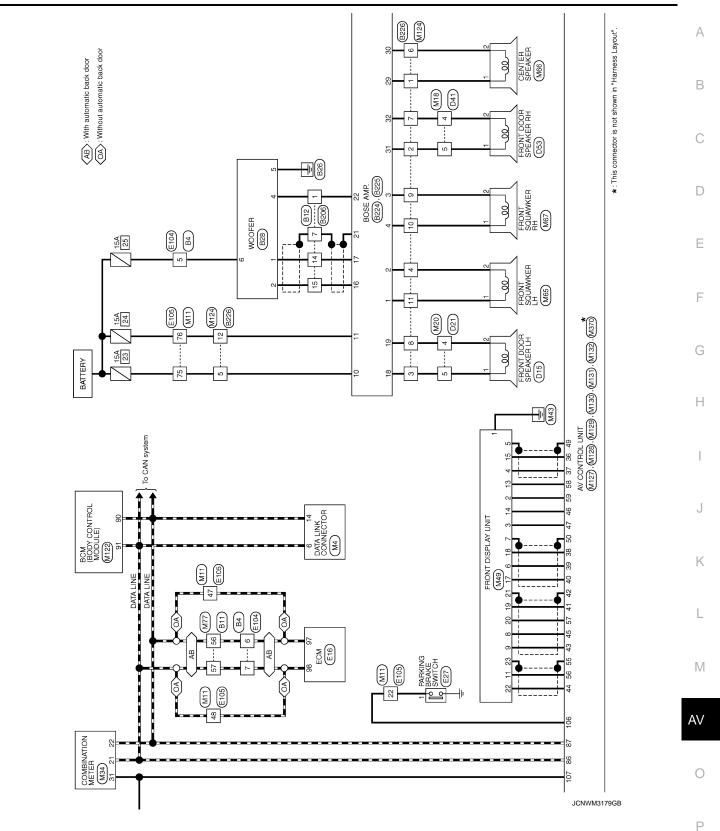
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION WITHOUT DVD ENTER-TAINMENT SYSTEM -

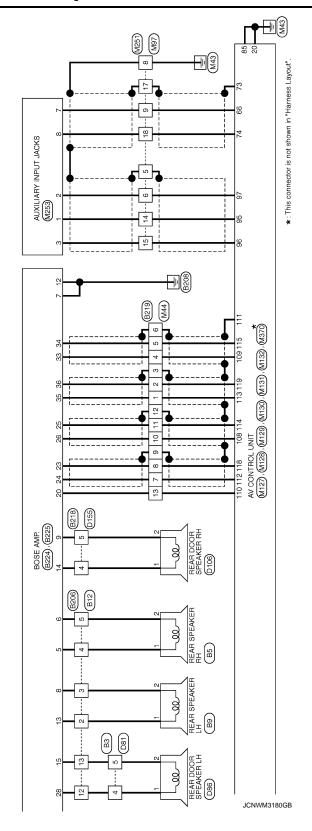
NOTE:

JCNWM3177GB









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BOSE AUDIO WITHOUT NAVIGATION WITHOUT DVD ENTERTAINMENT SYSTEM           Connector No.         83         11         L         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	TK10FW-NS8	18 7 6 5 4 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Signal Name [Specification]	1		ı			,	1	-				04	WIRE TO WIRE	NS16MW-CS		7 2 2	9 10 11 12 13 14				1	1 1	1	-	-	1	1	1	1
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BOSE AU Connector No.	Connector Type	H.S.		Terminal No.		5	7	0 =	12	13	14	15	18		2		Connector Name	Connector Type	Œ	H.S.			Terminal	No.	- 6	7	9	2	9	7	ω (	. Ç	2

JCNWM3181GB

Revision: 2009 September AV-443 2010 Murano

BOS	= AUD	BOSE AUDIO WITHOUT NAVIGATION	MIT	HOUT	WITHOUT DVD ENTERTAINMENT SYSTEM	TEM				
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ė			20	SHIELD		Connect	9	WIRE TO WIRE		
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			25	2 ×	1	Connector Type	7	NST6FW-CS	€	
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6	BR/L	1	99	GR	1	က	GR	1	GR	Г
10	5/X	-	67	9	-	4	^	-		ı
11	J/Y	-	68	<b>a</b>	-	2	ΓG	-		
12	M/L	-	69	SHIELD	TD	7	SHIELD	_		
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14	BR	_	71	B/R		6	g	-		
15	SB	1	72	$\dashv$	1	10	BR	1		
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17	>	1	74	SB	1	12	ΓC	1		
18	SB	1	75	+		5	0	î		
19	œ	1	76	+		4	W/R	1		
20	a. !	1	77	7	-	15	B/R	1		
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22	Α :	1	6/	+						
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t 7	<u></u>		5 8	+		Connect	Connector Name	WOOFER		
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35	SHIELD	-	88	Ă	-			3 5		
36	0/1	1	96	$\dashv$	1			)		
37	LG	1	91	$\dashv$	1					
40	>-	1	95	7	1	Terminal	Color	Signal Name [Specification]		
14	0	1	93	+		Š	of Wire			
45	gg	1	94	>	1		W/R	SOUND SIGNAL WOOFER (-)		
43	ŋ		ăí	4		2	B/R	SOUND SIGNAL WOOFER (+)		

JCNWM3182GB

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WIRE  NISS  NISS  Signal Name [Specification]  -[With BOSE Eystem] -[With BOSE Eystem] -[With BOSE Eystem] -[With BOSE Eystem] -[Without BOSE Eystem] -[	В
B218   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO   WIRE TO	С
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WIRE  Signal Name [Spen	F
Name   WIRE TO WIRE   Type   TK12MW   WIRE TO WIRE   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK12MW   TK	G
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VD ENTERTAL	J
10   10   10   10   10   10   10   10	K
Z	L
BOSE AUDIO WITHOUT NAVIGATIO	M
March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   Marc	AV
Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Type   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Comm	0
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Connector No. B452 Connector Name SATELLITE RADIO TUNER Connector Type FARRA  # 3.	Terminal Color Signal Nane [Specification]  No. of Wire Signal Nane [Specification]  SATELLITE ANTENNA  Connector No. B485  Connector Nane Antenna Antenna Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura Natura N	Terminal   Color   Signal Nane [Specification]   No.   of Wire   SATELLITE ANTENNA   SATELLITE ANTENNA   Octometor Name   FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)   Octometor Type   NSQ2FBR-CS     Octometor Type   NSQ2FBR-CS     Octometor Type   NSQ2FBR-CS     Octometor Type   NSQ2FBR-CS     Octometor Type   NSQ2FBR-CS     Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Octometor Type   Oc
Connector No.   8226	Terminal Color No. of Wire 2 8R	Connector No.   641
VO TUOH	13 GR SOUND SIGNAL REAR DOOR SPEAKER RH (+)  Connector Name BOSE AMP.  Connector Type SCA 19FBR-SGA4    17   26   26   24   28   28   12   13   15   15      27   26   26   24   28   28   12   13   15   15      18   18   18   18   18   18   18	Terminal   Color   Signal Name [Specification]   No. of vill wile   SOUND SIGNAL, REAR DOOR SPEAKER IH (-)   17   W/R   SOUND SIGNAL PROPER (+)   17   W/R   SOUND SIGNAL FRONT DOOR SPEAKER IH (-)   20   SB   SOUND SIGNAL FRONT DOOR SPEAKER IH (-)   20   SB   SOUND SIGNAL FRONT DOOR SPEAKER IH (-)   SB   SOUND SIGNAL REAR IH (-)   SPIELD   SPIELD   SPEAKER IH (-)   SOUND SIGNAL REAR IH (-)   SOUND SIGNAL REAR IH (-)   SOUND SIGNAL REAR IH (-)   SOUND SIGNAL REAR IH (-)   SOUND SIGNAL REAR IH (-)   SOUND SIGNAL REAR IH (-)   SOUND SIGNAL REAR IH (-)   SOUND SIGNAL REAR IH (-)   SOUND SIGNAL REAR IH (-)   SOUND SIGNAL REAR IH (-)   SOUND SIGNAL REAR IH (-)   SOUND SIGNAL REAR IH (-)   SOUND SIGNAL REAR SPEAKER IH (-)   SOUND SIGNAL REAR SPEAKER IH (-)   SOUND SIGNAL REAR SPEAKER IH (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REARIL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)   SOUND SIGNAL REAR IN (-)
BOSE AUDIO WITHOUT NAVIGATION  Connector Na. BZ19  Connector Type IH32MM-NH  Connector Type IH32MM-NH  H.S.   1   2   3   4   5   6   7   8   9   10   11   12   13   4   15   15    TT   18   19   10   12   23   24   25   26   27   28   29   30   31   22   25   24   25   25   27   28   29   30   31   32    TT   18   19   20   21   22   23   24   25   26   27   28   29   30   31   32    TT   2   3   4   5   6   7   8   9   10   11   12   14   15   15    TT   18   19   20   21   22   23   24   25   26   27   28   29   30   31   32    TT   2   4   5   6   7   8   9   10   11   12   14   15   15    TT   18   19   20   21   22   23   24   25   26   27   28   29   30   31   32    TT   2   4   5   6   7   8   9   10   11   12   14   15   15    TT   2   4   5   6   7   8   9   10   11   12   14   15    TT   3   4   5   6   7   8   9   10   11   12   14   15   15    TT   3   4   5   6   7   8   9   10   11   12   14   15   15    TT   4   5   6   7   8   9   10   11   12   14   15   15    TT   4   5   6   7   8   9   10   11   12   14   15   15    TT   4   7   7   7   7   7   7    TT   5   7   7   7   7   7   7   7    TT   7   7   7   7   7   7   7   7    TT   7   7   7   7   7   7   7    TT   7   7   7   7   7   7   7    TT   7   7   7   7   7   7    TT   7   7   7   7   7   7    TT   7   7   7   7   7    TT   7   7   7   7   7    TT   7   7   7   7   7    TT   7   7   7   7   7    TT   7   7   7   7   7    TT   7   7   7   7   7    TT   7   7   7   7    TT   7   7   7   7    TT   7   7   7   7    TT   7   7   7   7    TT   7   7   7   7    TT   7   7   7   7    TT   7   7   7   7    TT   7   7   7   7    TT   7   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT   7   7   7    TT	Terminal   Color   No.   Feminal   Color   No.   Feminal   Color   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Feminal   No.   Fem	C C C C C C C C C C C C C C C C C C C

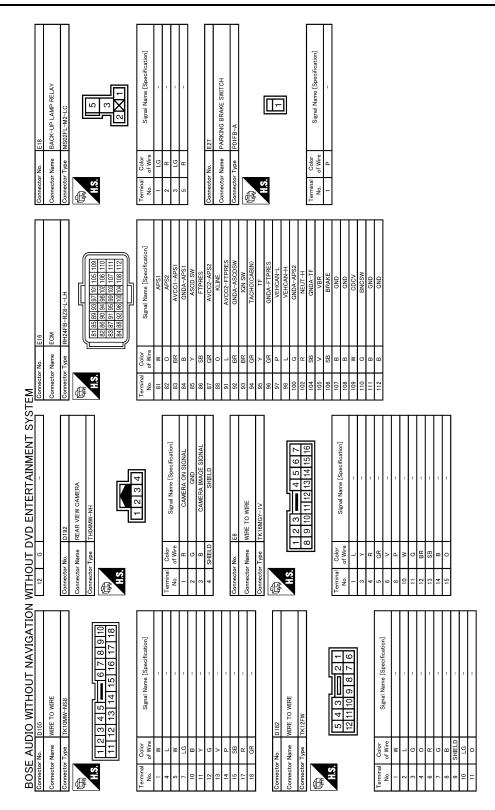
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### < ECU DIAGNOSIS INFORMATION >

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Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]	В
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Signal Name [Specification]  Signal Name [Specification]	J
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NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP   NITHOUT DIP	K
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Revision: 2009 September AV-447 2010 Murano



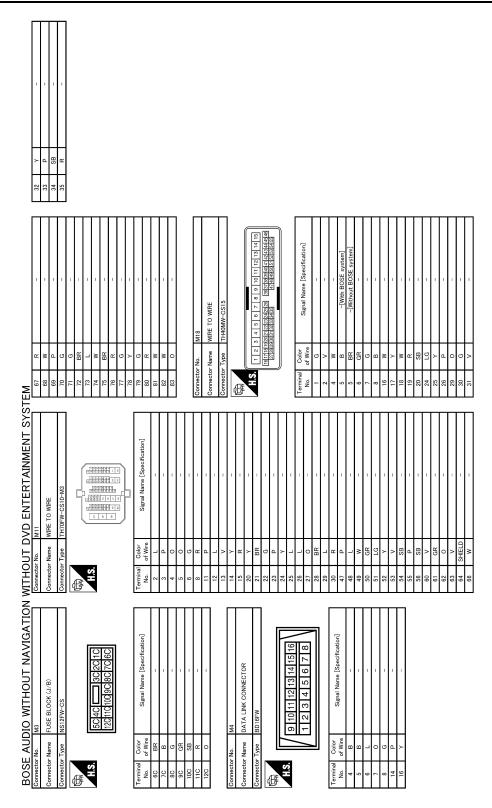
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# [BOSE AUDIO WITHOUT NAVIGATION]

### < ECU DIAGNOSIS INFORMATION >

TO WIRE FGY-1V    5 4 = 3 2 1   14   13   12   11   10 9 8     14   13   12   11   10 9 8     14   13   12   11   10 9 8     15   15   15   15     15   15   15	АВ
Connector No.   F123	C
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Connector Name COMBINATION METER	Connector Name WIRE TO WIRE	3 8	I INVEKTER VCC[Without navigation system]  R ACC[With navigation system]	Connector Name CENTER SPEAKER
Connector Type TH40FW-NH	Connector Type TH32FW-NH	က	SIGN	Connector Type TK02FBR
1		4 St	SHIELD SHIELD[With navigation system]	
	B	4	P COMPOSITE IMAGE GND[Without navigation system]	· · · · · · · · · · · · · · · · · · ·
		2	B AUX IMAGE GND[With navigation system]	
	7	5 St	SHIELD SHIELD[Without navigation system]	_
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	15 14 13 12 11 10 9 8 7 6 5 4 3	9	RGB (G:GREEN) SIGNAL[With navigation system]	2 1
07 /7 03	32[31]30[29[28[27[25[25[24[23[22[21[20]19]18]17]]	9	RGB (G:GREEN) SIGN	
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		8	B HP[With navigation system]	
Color Signal Name [Specification]	la l	8	보	lal
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	3 SHIELD -	13	+	
	4 B -	13	BR INVERTER GND[Without navigation system]	
SB ILLUMINATION CONTROL	5 W =	14 SI	SHIELD SHIELD[With navigation system]	Connector No. M67
SB TRIP RESET SWITCH	6 SHIELD –	14	LG SIGNAL GND[Without navigation system]	Compactor Manne
W SW ILL POWER	L	15	Y AUX IMAGE SIGNAL[With navigation system]	
O METER CONTROL SW GND	8 R	15	L COMPOSITE IMAGE SIGNAL[Without navigation system]	Connector Type TK02FBR
L ENTER SWITCH	9 SHIELD -	17	G RGB (R:RED) SIGNAL	
R SELECT SWITCH	- 10 V	18	W RGB (B:BLUE) SIGNAL[With navigation system]	Œ
V ILLUMINATION CONTROL SWTCH (+)[With automatic drive positioner]		18	Y RGB (B:BLUE) SIGNAL[Without navigation system]	
Y ILLUMINATION CONTROL SWITCH (+)[Without automatic drive positioner]	12 SHIELD -	19	B RGB SYNC	
GR ILLUMINATION CONTROL SWITCH (-)	13 P	20	R VP	7
L	15 LG –	21 SF	SHIELD	
L AMBIENT SENSOR	16 L –	22	G COMM (DISP->CONT)	
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G PARKING BRAKE SWITCH		ģ		
V BRAKE FLUID LEVEL SWITCH	Connector No. M49	厚		
R WASHER LEVEL SWITCH	TIMIT AND DISCUSSION AND TAKEN	Į.		
P VEHICLE SPEED (2-PULSE)				
V VEHICLE SPEED (8-PULSE)	Connector Type TH24FW-NH		,	
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٦	11211110987654321		Signal Name [Specification]	
	24 23 22 21 20 19 18 17 16 15 14 13	t	LG -[With BOSE system]	
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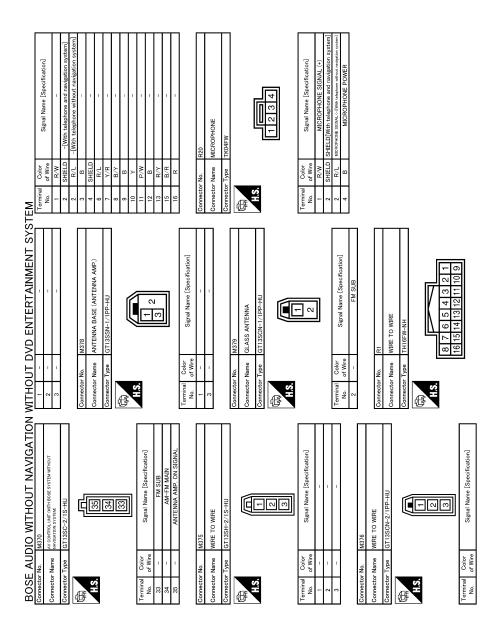
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"With automatic drive positioner]	
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Signal Name (Specification)	
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Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Type   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Commetter Name   Comm	
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BOSE AUDIO WITHOUT NAVIGATION Connector No. M124 Connector Name WIRE TO WIRE Connector Type NS12FBR-CS	WITHOUT DVD ENTERTAINMENT SYSTEM	nector No. nector Name nector Type	M129 W control, user offer eost system without THZ4FW-NH	66 68 73		AUX IMAGE SIGNAL[Without DVD player] CONNECTION RECOGNITION SHELD COMPOSITE IMAGE GND[With DVD player]
		·····································		74	<u>.</u>	AUX IMAGE GND[Without DVD player]
5 4	1 2 3 4 5 6 7 8 9 1 10 10 11 12 13 14 15 16 17 18 20	47 59	46 45 44 43 42 41 40 39 38 37 36 58 57 56 55 54 53 52 51 50 49 48	Connector Name		M131 AV CONTROL UNIT WITH BOSE SYSTEM WITHOUT AVACATION SYSTEM) THYSTEM-NI-H
				þ	1	177
Terminal Color Signal Name [Specification]	Terminal Color Signal Name [Specification]	Terminal Color No. of Wire	Signal Name [Specification]	厚		
T	t	t	COMPOSITE IMAGE SIGNAL	2		
2 B –		37 P	COMPOSITE IMAGE GND		91 90 89 88 87 86	85 84 83 82 81
3 L –	œ	38 Y	RGB (B:BLUE) SIGNAL		107 106 105 104	103 102 101 100 99 98 97 96 95 94 93 92
Y	15 L STRG SW GND	39 L	RGB (G:GREEN) SIGNAL			
+	3 >-	╀	RGB SYNC	Terminal	Color	
+	- @	돐	SHIELD	No.	of Wire	Signal Name [Specification]
- B		43 W	RGB AREA (YS) SIGNAL	79	7	TEL VOICE SIGNAL (-)
- Н		Н	COMM (DISP->CONT)	80	œ	TEL VOICE SIGNAL (+)
+	Connector No. M128	$\dashv$	НР	18	9	SHIELD
+	Connector Name ANY CONTROL UNIT (WITH BOSE SYSTEM WITHOUT	+	SIGNAL GND	82	Ť	SOUND SIGNAL RH (-)[With DVD player]
12 K	Т	T	SIGNAL VCC	82	Ť	Pod SUUND SIGNAL RH (=)[Without DVD player]
	Connector Type ATZFW	†	SHELD	833	†	SOUND SIGNAL RH (+)[Wrth DVD player]
O Management No.	Œ	+	SHIELD	833	x c	IPOd SUUND SIGNAL RH (+)[Without DVD player]
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Connector Type TH16FW-NH	20 00 00 20 30 30 40	F	INVERTER GND	88	œ	AV COMM (H)
1	72 02 02 07	59 Y	INVERTER VCC	88	_	AV COMM (L)
医				90	ŋ	AV COMM (H)
<u> </u>	ŀ			91	7	AV COMM (L)
2 4 6 0 10 12 14 16	Signal Name [Specification]	Connector No.	MT30	62	¥ (	AUX SOUND SIGNAL RH (+)
4 0 0 10 12 14	$\dagger$	Connector Name	AV CONTROL UNIT (WITH BOSE SYSTEM WITHOUT NAVIGATION SYSTEM)	96	מ ≥	AUX SOUND SIGNAL LH (+)
0 1 8 1 0	9	Connector Type	TH16FW-NH	86	H	SOUND SIGNAL LH (-)[With DVD player]
	ч	4		86	L iPoc	iPod SOUND SIGNAL LH (-)[Without DVD player]
Terminal Color Signal Name [Specification]	W SATELLITE RADI	厚		66	$\dashv$	SOUND SIGNAL LH (+)[With DVD player]
	25 SHIELD SHIELD	HS.	<u> </u>   	66	BR	Pod SOUND SIGNAL LH (+)[Without DVD player]
	SHIELD		67 66 65 64 63 62 61 60	80	SHIELD	Shield[with DVD player]
2 02	≤ ≥		7/ 73 72 71 70 69	101	\ \	SW GND
5 SB ILL CONT			101211100	103	*	EJECT SIGNAL
6 R AV COMM (H)				104	ŋ	IGNITION
8 L AV COMM (L)		Ja	Signal Name [Specification]	105	SB	REVERSE
> 3		+	o Living	901	ۍ ت	PARKING BRAKE
14 W EJECT SIGNAL		66 SHELD	SHIELD CAMEDA MACE SIGNAL	) (1)	>	VEHICLE SPEED (8-PULSE)
		$\mathbb{H}$	COMPOSITE IMAGE SIGNAL  COMPOSITE IMAGE SIGNAL  [With DVD player]			

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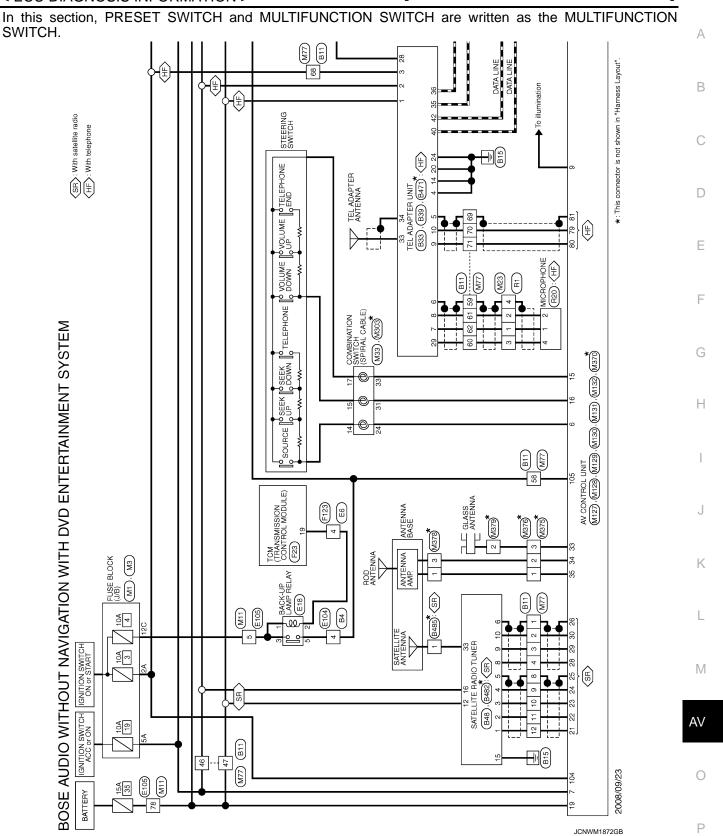
Signal Name [Specification]    Pod SOUND SIGNAL LH (+)   Pod SOUND SIGNAL GND   COMM (Pod-7)Fod ADAPTER-10   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   Pod SOUND SIGNAL RH (+)   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSORY DEVITEY   ACCESSO	АВ
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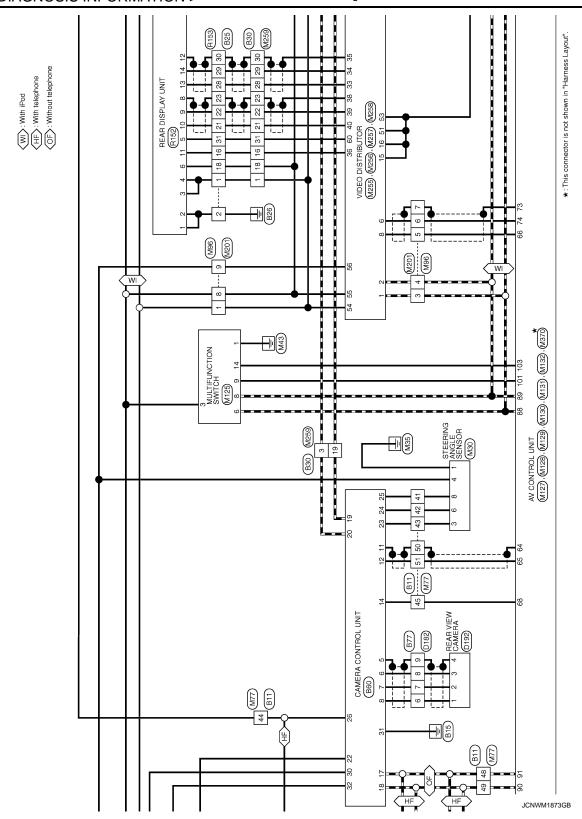


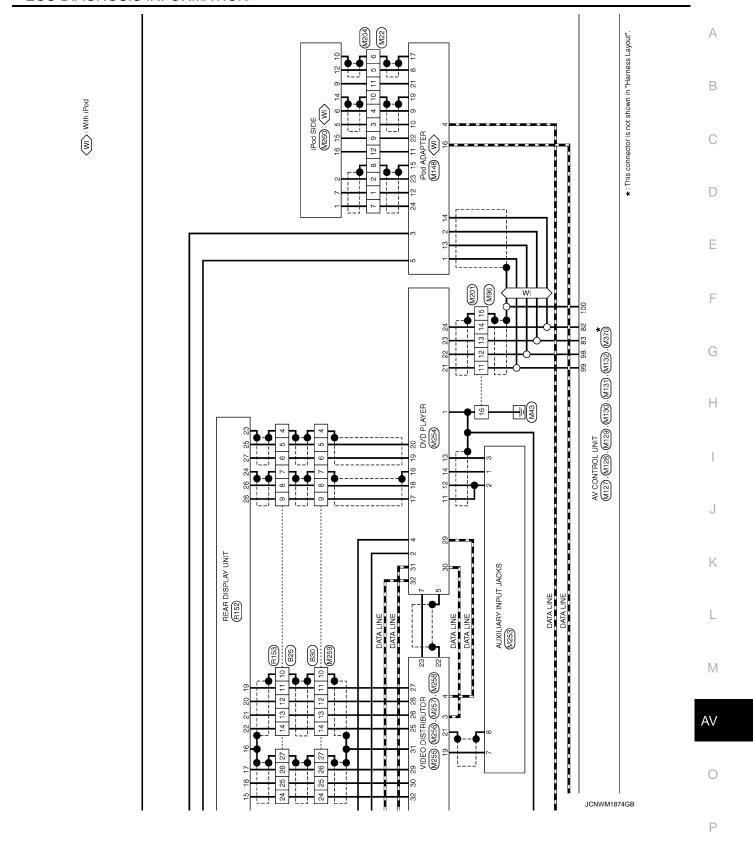
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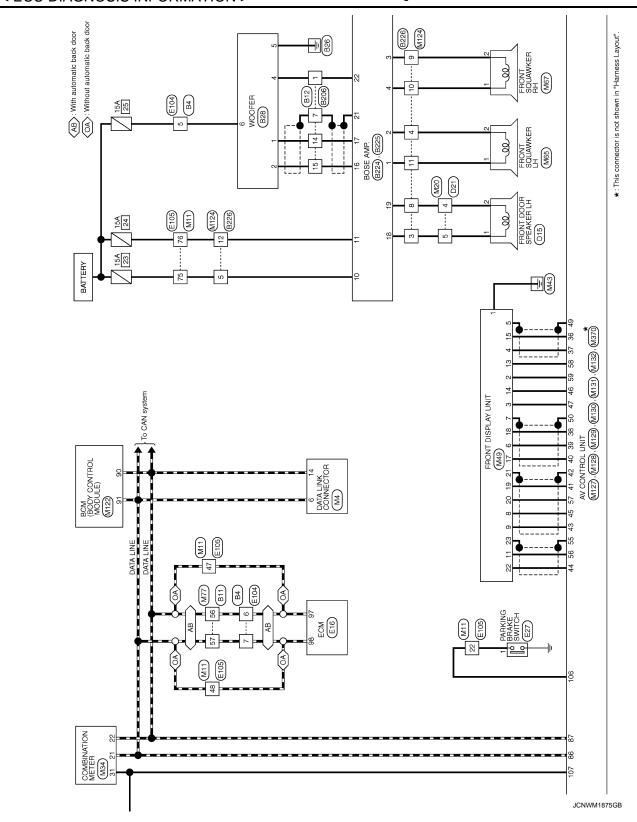
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAIN-MENT SYSTEM -

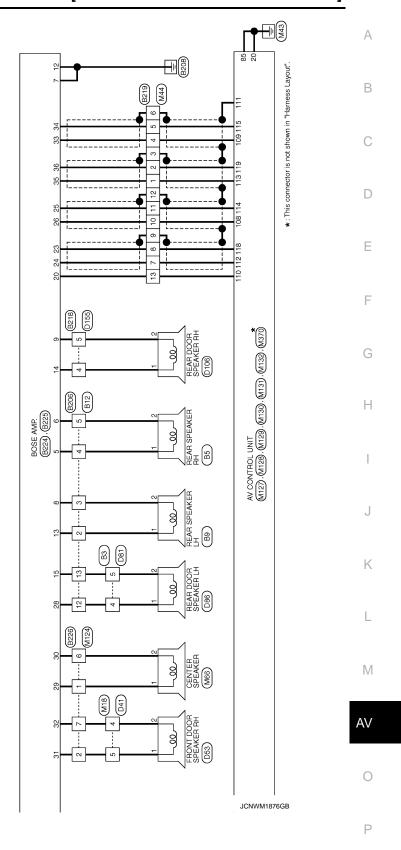
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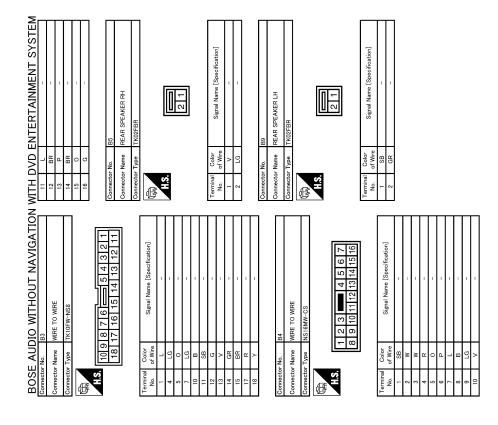












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# [BOSE AUDIO WITHOUT NAVIGATION]

#### < ECU DIAGNOSIS INFORMATION >

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|           | WRE TO WIRE - 46 GR - 98 LG - 6 | ector Name         WIRE TO WIRE         45         CR         -         93         LG         -         67         V/V           ector Type         TH800M-CS19         47         A2         A2         A2         A2         A2         A3         A3 | WRE TO WIRE         45 GR         -         97 III         III         -         6 W.L         -         7 SHELD         7 SHELD         2 SHELD         -         7 SHELD         -         7 SHELD         -         7 SHELD         -         7 SHELD         -         -         7 SHELD         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         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WINTER   WINTER   WINTER  </td> <td>  WHRE TO WIRE   WHRE TO WIRE   WHRE TO WIRE   WHRE TO WIRE   WHRE TO WIRE   WHRE TO WIRE   WHRE TO WIRE   WHRE TO WIRE   WHRE   WHRE   WHRE TO WIRE   WHRE   d> <td>  WINE TO WINE   45</td> <td>  With Tro Wife</td> <td>  WHRE TO WHEE   45 GR   WHICH TO WHEE   45 GR   WHICH TO WHEE   45 GR   WHICH TO WHEE   45 GR   WHICH CASE Wide values and telephone  45 GR   WHICH CASE WISE WISE WISE WISE WISE WISE WISE WI</td> <td>  WINET TO WINE   4</td> <td>  With To With Early Own Reference   45</td> <td>  With To Wife   With Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own 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Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker To Wilker   Minker To Wilker To Wilker   Minker To Wilker To Wilker   Minker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker 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| With To Wife   With Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early Own Early 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Own Early Own Early Own Early Own Early Own Earl | Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker   Minker To Wilker To Wilker   Minker To Wilker To Wilker   Minker To Wilker To Wilker   Minker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker To Wilker 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BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAINMENT SYSTEM	WITH DVD	ENTERTAINMENT SYSTEM			-		Г
Connector No. B30	Connector No.	B33	Connector No.	lo. B48		AV COMM (H)	
Connector Name WIRE TO WIRE	Connector Name	TEL ADAPTER UNIT	Connector Name	lame SATELLITE RADIO TUNER	22 R	REVERSE SENSOR SIGNAL 1	
Connector Type TH32FW-NH	Connector Type	TH08FW-NH	Connector Type	ype A16FW	Ë	SENSOR SIGNAL 2	_
1	ą		q		Н	SENSOR SIGNAL 3	
图	序		唐		26 BR	VEHICLE SPEED (8-PULSE)	_
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					Connector No	B77	_
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No. of Wire Signal Name [Specification]	_	Signal Name [Specification]		of Wire Signal Name [Specification]	Connector Name M	WIRE TO WIRE	
	32 →	AV COMM (H)	-	W/L SOUND SIGNAL LH (=)	Connector Type T	TK12MW	_
	36 BR	AV COMM (L)	2	Y/L SOUND SIGNAL LH (+)	Į.		
	40 G	AV COMM (H)	3	Y/G SOUND SIGNAL RH (-)	F		
5 W/R -	42 GR	AV COMM (L)	4		O E		
- 7/M 9			2	SHIELD	1.3.	1 2 3 4 5	
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8 GR/V –	Connector No.	B39	89	R/W REQUEST (SAT->CONT)		7 1 1 1 1 6 9 7 9	
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24 B -	_	Signal Name [Specification]	1		10 W	1	_
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31 P	7 R/W	MICROPHONE SIGNAL	Terminal	Color			
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	28 BR	VEHICLE SPEED (8-PULSE)	12	B CAMERA IMAGE SIGNAL			
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BOSE #	BOSE AUDIO WITHOUT NAVIGATION	WITH DVD ENTERTAINMENT SYSTEM	_	
Connector No.	b. B206	5	Connector No. B224	23 W/L SOUND SIGNAL REAR LH (-)
Connector Name	me WIRE TO WIRE	13 V = -	Connector Name BOSE AMP.	GR/V
Connector Type	pe NS16MW-CS	SB	Connector Type SGA12FBR-SJA2	9
E		+		28 G SOUND SIGNAL REAR DOOR SPEAKER LH (+) 29 V SOUND SIGNAL CENTER SPEAKER (+)
H.S.	1 1		S. C. S.	30 P SOUND SIGNAL CENTER SPEAKER (-)
	8 0 10 11 12 12 14 15 16	Connector No. B219	14 13 12 7	<u></u> ≻
	6   4   6   7   1   0   6	Connector Name WIRE TO WIRE	987654321	33 W/R SOUND SIGNAL FRONT RH (+)
		Connector Type TH32MW-NH		W/R
la	Color Signal Name [Specification]	4	nal	B/R
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Г	SHIELD -		6 BR SOUND SIGNAL REAR SPEAKER RH (-)	
88	1	Terminal Color	7 B GND	
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9	B/K	5 SHELD	L SOUND SIGNAL REAK DOOK SPEA	Signal Name [Specification]
		- CHO		t
Connector No.	B218	0.	Connector No. B225	
	Т	GR/V		
Connector Name	me WIRE 10 WIRE	M/L	Connector Name BOSE AMP.	- ^ <del>*</del>
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108 B	GND			8	-				
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Connector No.   M3	n] Terminal Color Signal Name [Specification] No. of Wire	H	+	280	H	Н			Ī	Connector No. M4	Connector Name DATA LINK CONNECTOR	П	Connector Type BD16FW	ά	医		9 10 11 11 11 11 11 11 11 11 11 11 11 11	12345678	1		Terminal Color	_	4 B =		- 7 9		8		- 16 Y				1	T	
MITH DVD ENTERTAINMENT ST   Connector Name   WIRE TO WIRE	of Wire Signal Name [Specification]	- 1	G/R -	1 1		- L		BR/W -	BR -	$\dashv$	п В	- 0		ı	Connector No. M1	Connector Name FUSE BLOCK (J/B)	Т	Connector Lype NS06FW-M2			3A T 12414	7 6 4	8A 10000 40	]		_	of Wire	٠ -	- 9	$\dashv$	GR -	4	+	- I'G	, I
PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE   PAGE	r Signal Name [Specification] Terminal No.		INH SW 3	INH SW 3 MON	GND	SENSOR GND		CHIP SELECT (SEL1)	DATA I/O (SEL3)	INH SW 1	ATF TEMP SENSOR		S	REV LAMP RELAY	STARTER RELAY	SENSOR GND	SENSOR POWER SOURCE(5V)	S/M-D		9-M/S		CAN-H	PRI SPEED SENSOR	R SEC SPEED SENSOR	1	L/U&SEL LINEAR SOL Te	SEC-LINEAR SOL	PL LINEAR SOL			BATT	VIGN 5A	6A	A/	8A
BOSE AU Commetter No. Commetter Type	Terminal Color No. of Wire	1 P/B	2 P/L	3 6/0	. S	7 W	8 G/W	H	10 BR/R	11 BR/W	$\dashv$	ᅥ	H	+	+	+	+	_	$^{+}$	30 6/8	t	32 L	33 LG	34 LG/R	37 V/R	38 L/W	$\dashv$	40 R/Y	42 B	46 Y	47 L/R	48 ≻			

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Revision: 2009 September AV-469 2010 Murano

45 P = -	>	0	52 GR -[With automatic drive positioner]	: ]	53 V -[Without automatic drive positioner]	ΓC	- 9	SB	55 0 -[Without automatic drive positioner]		Connector No. M22	Connector Name WIRE TO WIRE	T. I. COLONIA	٦.			1	4 3 2	12 11 10 9 8 7		ŀ	Terminal Color Signal Name [Specification]	0	> (	x a	: 0	) ×	6 SHIELD -	T	S	BR	10 SHIELD	1 2 2												
+	Ĥ	$\dashv$		Connector No. M20	L		Connector Type TH40MW-CS15	ą	唐	HS. [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[28] [38]37[38]39[40]41[42]43[44]45[48]			Terminal Color			2 G –	$\perp$		7	^ 9	7 BR -	o (	SS -	1 0	) m	F	Н	$\dashv$	_	> !!		- 4 47 36 N	26 W	┞	30 F	H	32 W -	Н	34 SB –	Н	Н	4	43 0 -	- +4 Y
WITH DVD ENTERTAINMENT SYSTEM	Ь	$\dashv$	- 11 G	╁	74 W	H	76 R –	Н	> (	79 G = 2	M	$\dashv$	83 0		Connector No. M18	Omeran Name WIRE TO WIRE		Connector Type TH40MW-CS15	d			1 2 3 4 5 6 7 8 9 10 11 12 13 14 1	19   7   19   19   24   24   24   25   25   25   25   25	l			No. of Wire Signal Name [Specification]	1 6 -	2 V –	м	œ ¦	+	0 CK		м	H	w	19 R	20 SB –	24 LG –	25 Y –	Н	0	30 G	31 V =
BOSE AUDIO WITHOUT NAVIGATION Genector No.   M11	- 1	Connector Type TH70FW-CS10-M3						z e	-	Terminal Color Signal Name [Specification] No. of Wire	т	-	+	000000000000000000000000000000000000000	- R	11 P	12 L –	13 V =	+	+	+	21 BR –	5 (	- F3	24 7 =	1 -	27 0 -	H			47 P	-1:	- M 6b	F. P.	┝	53 V	54 SB -	H	56 SB –	- v 09		$\mathbb{H}$	1	64 SHIELD -	- M 99

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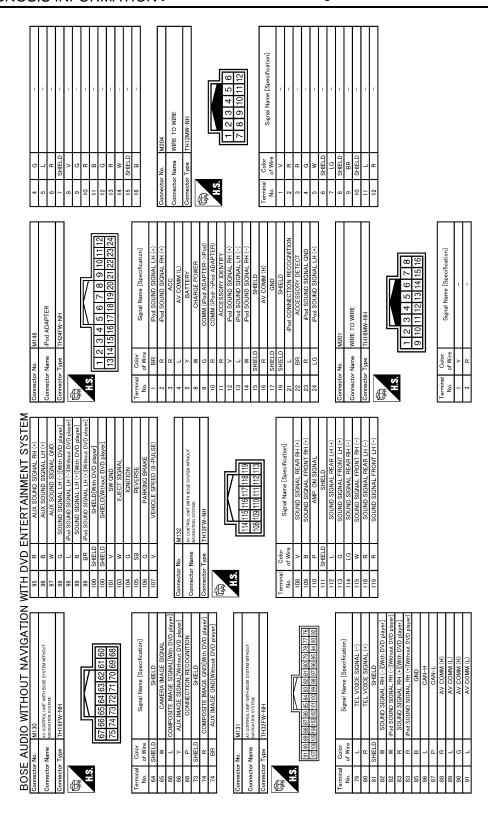
29 LG	12 11 11 11 12 12 12 12 12 12 12 12 12 1	3	BR   INVER
GR	WHALE SWITCH WITH WHALE SWITCH WHALE SPEED (9-PULSE) VEHICLE SPEED (9-PULSE) VEHICLE SPEED (9-PULSE) SEAT BELT BUCKLE SWITCH (PASSENGER SIDE) SEAT BELT BUCKLE SWITCH (PASSENGER SIDE) M444 WIRE TO WIRE	Signal Name   Specification   Color   Shift   Decision   Color   Shift   Decision   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color	
Connector No. M33 Connector Name COMENATION SWITCH (SPIRAL CABLE) Connector Type TKUBFGY-IV  H.S. [24 25 26] [31 32 33 34]	Terminal   Color   Signal Name [Specification]     No.	Connector No. M34  Connector Name COMBINATION METER  Connector Type TH40FW-NH  M3  H.S. Term  Term  Term  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term  No. M34  Term	Terminal   Color   Signal Name [Specification]     1
Connector No. M23 Connector Name WIRE TO WIRE Connector Type TH16MW-NH  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	SH of C	11 L	Terminal Color Signal Name [Specification] No. of Wire Signal Name [Specification] 1

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37 Y 40 O 41 O 42 SB 43 L	5 5	5	71
≅⊓⊓	ПП		
WITH DVD ENTERTAINMENT SYSTEM           1         BR         _           2         R         _           2         W. — [Without BOSE system]	Connector No. M77 Connector Name WIRE TO WIRE Connector Type TH80FW-CS19	Color Signal Name Shift D B W W K W W W W W W W W W W W W W W W W W	S S S S S S S S S S S S S S S S S S S
WITH	Connecto Connecto Connecto HS.	No. no. no. no. no. no. no. no. no. no. n	13 16 17 17 18 19 19 20 21 22 22 22 23 23 24 25 25 27 27 28 30 30 30 30 30 30 30 30 30 30 30 30 30
ISE AUDIO WITHOUT NAVIGATION seton No. M65  Beton Name FRONT SQUAWKER LH  FRONT SQUAWKER LH  TKOZFBR	1   Color   Signal Name [Specification]   1   LG   -[With BOSE system]   1   L   -[With BOSE system]   2   Y   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   L   -[With BOSE system]   1   -[With BOSE system]   1   -[With BOSE system]   1   -[With BOSE system]   1   -[With BOSE system]   1   -[With BOSE system]   1   -[With BOSE system]   1   -[With BOSE system]   1   -[With BOSE system]   1   -[With BOSE system]   1   -[With BOSE system]   1	2 B — (Without BOSE system)  Connector No. Mi6  Connector Name CENTER SPEAKER  Connector Type TK02FBR  LIS	Terminal Color No. of Wire  1 P Connector No. M67  Connector Name FRONT SOLAWKER RH  Connector Type TKOZEBR

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жтнолт 38 37 36 50 49 48	ification]  E SIGNAL  SERVAL  SIGNAL  SIGNAL  CONT)  DD  CO  CO  CO  CO  CO  CO  CO  CO  CO	А
NH NH 13 42 41 40 39	Signal Name (Specification) COMPOSITE IMAGE SIGNAL COMPOSITE IMAGE SIGNAL RGB (BBLUE) SIGNAL RGB (RRED) SIGNAL RGB (RRED) SIGNAL RGB RRED) SIGNAL COMM (SISS->CONT) HP SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CND SIGNAL CN	В
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Connector No. Connector Name Connector Type H.S. H.S.	7 Nem ni ni ni ni ni ni ni ni ni ni ni ni ni	D
тем мтноогт   8   9   8   9   8   9   9   9   9   9	Signal Name [Specification]	Е
MI27 W CORTROL UNT WITH BODG ENSTEAN WITHOUT NAVALUDUR STEAN THISPW-CS2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Signal Name (Specification)  STRO SWA ACC ILLUMINATION STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD STRO SW BOD	F
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ENTERTAINMENT MI24 WIRE TO WIRE NS12FBR-CS  5 4	#	ı
ENTERTA M124 WIRE TO WIRE INSIZEBR-CS 5 4	Signal Name (Spending Name)  MULTIFUNCTION SWITCH  THIGHW-NH  THIGHW-NH  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV COMM  AV	J
H DVD ector No. ector Name ector Type	1	K
z		L
AVIGATI	Signal Name (Specification)  ROOM ANT2- ROOM ANT2- ROOM ANT2- ROOM ANT2- ROOM ANT3- PASSENGER DOOR ANT- DRAYER BOOR ANT- DRAYER BOOR ANT- DRAYER BOOR ANT- DRAYER BOOR ANT- DRAYER BOOR ANT- DRAYER BOOR ANT- DRAYER BOOR ANT- DRAYER BOOR ANT- DRAYER BOOR ANT- DRAYER BOOR ANT- DRAYER BOOR ANT- DRAYER BOOR ANT- CAN-I CAN-I CAN-I CAN-I CAN-I CAN-I CAN-I CAN-I CAN-I CAN-I CAN-I CAN-I CAN-I COMBI SW INPUT 3 S'L COMBITION 2 S'L CONDITION 2 S'L CONDITION 2 S'L CONDITION 1 S'L CONDITION 2 S'L CONDITION 2 S'L CONDITION 2 S'L CONDITION 3 S'L COMBIS SW INPUT 1 COMBIS SW INPUT 1 COMBIS SW INPUT 2 HAZARD SW S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COMM S'L COM S'L COMM S'L COM S'L COM S'L COM S'L COM S'L COM S'L COM S'L C	
OUT NA DNTROL MOD SEE SEE SEE SEE SEE SEE SEE SEE SEE SEE	Signal Name (Specification)  Signal Name (Specification)  ROOM ANTZ- ROOM ANTZ- ROOM ANTZ- ROOM SITZ- ROOM SITZ- BARKER DOOR ANT- BARKER DOOR ANT- INMOSI ANTENNA CONTRO INMOSI ANTENNA CONTRO INMOSI ANTENNA CONTRO COMBIS WI INPUT 5 COMBIS WI INPUT 5 COMBIS WI INPUT 7 COMBIS WI INPUT 7 SALC ONDITION 1 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 2 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDITION 3 SALC CONDIN	M
BOSE AUDIO WITHOUT NAVIGATIO  Connector No. M122  Connector Name BCM (BODY CONTROL MODULE)  Connector Type TH40FB-NH  H.S. F. F. F. F. F. F. F. F. F. F. F. F. F.	Signal Name [Specification]  ROOM ANTZ- ROOM ANTZ- ROOM ANTZ- PASSENGER DOOR ANT- PASSENGER DOOR ANT- DRIVER DOOR ANT- DRIVER DOOR ANT- DRIVER DOOR ANT- DRIVER DOOR ANT- DRIVER DOOR ANT- IMMOBL ANTENNA CONTROL IMMOBL ANTENNA CONTROL COMBLS WINPUT 5 COMBLS WINPUT 5 COMBLS WINPUT 3 CAN-L COMBLS WINPUT 3 CAN-L COMBLS WINPUT 1 COMBLS WINPUT 1 S-L CONDITION 1 S-L CONDITION 1 S-L CONDITION 1 S-L CONDITION 1 S-L CONDITION 2 S-L CONDITION 1 S-L CONDITION 1 COMBLS WINPUT 1 COMBLS WINPUT 1 COMBLS WINPUT 1 COMBLS WINPUT 2 HAZARD SW S-L COMMIN	AV
BOSE AUDIC Connector No. MIT Connector Name BOSE Connector Trype TTH TRY TRY TRY TRY TRY TRY TRY TRY TRY TRY	C   C   C   C   C   C   C   C   C   C	
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16   B   GAUX IMAGE SIGNAL     19   G   AUX IMAGE SIGNAL     21   SHELD   SHELD     22   SHELD   SHELD     23   P   DVD IMAGE SIGNAL     Connector Name   WIZE9     Connector Name		α <del>α</del>
Connector No. M257  Connector Type ITH16FW-NH  LAS.  26 28 30 32 34 36 38 40  25 277 29 31 33 35 37 39	Perminal   Color   Signal Name [Specification]   No.	3 R A COMM (H)   4 L AV COMM (H)   6 R COMPOSITE IMAGE GND   8 L COMPOSITE IMAGE SIGNAL   15 B GND   6 ND
MITH DVD ENTERTAINMENT SYSTEM   21   B   SOUND SIGNAL LH (+)   22   C   SOUND SIGNAL LH (+)   24   W   SOUND SIGNAL LH (+)   24   W   SOUND SIGNAL RH (+)   24   W   SOUND SIGNAL RH (+)   30   R   AV COMM (L)   31   L   AV COMM (H)   32   R   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H)   AV COMM (H		
BOSE AUDIO WITHOUT NAVIGATION Connector No. M253 Connector Name AUXILARY INPUT JACKS Connector Type A08FW  MAS  T12345678	Color   Signal Na   Color   Signal Na   Color   Signal Na   Color   Signal Na   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Colo	17 G HEADPHONE SOUNDSIGNAL IN (+) 18 R HEADPHONE SOUNDSIGNAL IN (+) 19 V HEADPHONE SOUNDSIGNAL SIGNAL IN (+) 20 LG HEADPHONE SOUNDSIGNAL SIGNAL RH (+) 20 LG HEADPHONE SOUNDSIGNAL SIGNAL RH (+) 20 LG HEADPHONE SOUNDSIGNAL SIGNAL RH (+) 20 LG HEADPHONE SOUNDSIGNAL SIGNAL RH (+) 20 LG HEADPHONE SOUNDSIGNAL SIGNAL RH (+) 20 LG HEADPHONE SOUNDSIGNAL SIGNAL RH (+) 20 LG HEADPHONE SOUNDSIGNAL RIGNAL RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE RH (+) 20 LG HEADPHONE

BOSE AUDIO WITHOUT NAVIGATION	BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAINMENT SYSTEM			
Connector No. M260	Connector No. M370		nal	Signal Name [Specification]
Connector Name iPod SIDE	Connector Name AV CONTROL UNIT (WITH BOSE SYSTEM WITHOUT MANDALION SYSTEM)	-	No. of Wire	
Т	т	3 - 2	- KW	1 1 2
ector Type	٦.		2 SMIELD	-[With telephone and havigation system]
		Connector No. M378	t	
	<u></u>	Compositor Name ANTENNA BASE (ANTENNA AMB)	4 SHIELD	1
123 456	2		6 R/L	1
7 8 9 10 11 12 13 14 15 16	34	Connector Type GT13SSN-1/1PP-HU	+	í
	[33]	<b>1</b>	8 8	1
		F	n >	1 1
Tarminal	Tarminal	T SH	ľ	1
	_	1 2	t	1
1 LG iPod SOUND SIGNAL LH (+)	33 - FM SUB	3 8	Ë	t
2 R iPod SOUND SIGNAL GND	34 – AM-FM MAIN		15 B/R	1
œ	35 – ANTENNA AMP. ON SIGNAL		16 R	1
6 G COMM (iPod ADAPTER->iPod)		Terminal Color Signal Name [Specification]		
o Principle Signal Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Principle Princip	Connector No M375	+	Connector No	R20
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SHIELD	Connector Type GT13SH-2/1S-HU		Connector Type	TK04FW
15 BR ACCESSORY DETECT	ą	Connector No. M379	q	
	<b>国</b>	Connector Name GLASS ANTENNA	唐	
	HS.	Gonnector Type GT13SCN=1/1PP=HU	H.S.	
Connector No. M303	-] [0	1		1 0 0 1
Connector Name COMBINATION SWITCH (SPIRAL CABLE)	7			ᆌ
	3			
Connector Type TK08FGY			- 1-	
	Terminal Color Signal Name [Specification] No. of Wire	] ~	Terminal Color No. of Wire	Signal Name [Specification]
T. C. C. C. C. C. C. C. C. C. C. C. C. C.	T		t	MICROPHONE SIGNAL (+)
	2		2 SHIELD	SHIELD[With telephone and navigation system]
20 19 18 17 16 15 14 13	3	nal	H	MICROPHONE SIGNAL (-)[With telephone without navigation system]
		No. of Wire	4 B	MICROPHONE POWER
	Connector No. M376	3000		
la l				
of Wire	Т	Connector No. R1		
	Connector Type GT13SCN-2/1PP-HU	Connector Name WIRE TO WIRE		
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	æ	8 01 11 21 51 41 91 91		
	No. of Wire			

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TERTAINMENT SYSTEM	WIRE TO WIRE	TH32FW-NH		16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 1	Signal Name [Specification]	1	-	-	-	-	-	-	_	_	-	-	-	-	-	-	-	_	_	1	1			-	-	-	1	
OVD ENT		П		16 15 14 13 12 11 32 31 30 29 28 27	Color of Wire	Y/R	В	SHIELD	re	>	SHIELD	BR	٨	SHIELD	M/L	J//	Y/L	BR/L	G	٧/٧	FG	>	SHIELD	В	W	۳	SHIELD	G	ч	SHIELD	2	
WITH DV	Connector Name	Connector Type	優 SH		Terminal No.	-	2	4	5	9	7	8	6	10	11	12	13	14	16	18	21	22	23	24	25	26	27	28	53	30	31	
BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAINMENT SYSTEM Commetor No.   1818	REAR DISPLAY UNIT	TH32FW-NH		8 10 12 14 16 18 20 22 24 26 28 30 32 7 9 11 13 15 17 19 21 23 25 27 29 31	Signal Name [Specification]	GND	GND	BATTERY	BATTERY	HEADPHONE ON SIGNAL	ACC	SHIELD	COMM (DISP->DIST)	COMM (DIST->DISP)	IGNITION	SHIELD	COMPOSITE SYNC	COMPOSITE IMAGE SIGNAL	RGB AREA (YS) SIGNAL	GND	VP	HP	RGB GND	RGB (B:BLUE) SIGNAL	RGB (G:GREEN) SIGNAL	RGB (R:RED) SIGNAL	SHIELD	SHIELD	HEADPHONE SOUNDSIGNAL SIGNAL RH (-)	HEADPHONE SOUNDSIGNAL SIGNAL LH (-)	HEADPHONE SOUNDSIGNAL SIGNAL RH (+)	HEADPHONE SOUNDSIGNAL SIGNAL LH (+)
AUD No.	r Name	r Type		2 1 3 5 6	Color of Wire	В	В	Y/R	Y/R	В	٨/٨	SHIELD	۸	57	5	SHIELD	5	ч	В	SHIELD	ď	W	T/M	5/A	T/A	BR/L	SHIELD	SHIELD	57	BR	۸	Υ
BOSE A	Connector Name	Connector Type	優 SH		Terminal No.	-	2	3	4	5	9	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28

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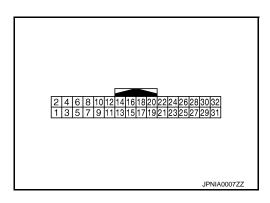
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Reference Values

**TERMINAL LAYOUT** 



#### PHYSICAL VALUES

	ninal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
5	_	Shield	_	_	_	_
6 (B)	Ground	Camera image signal	Input	Ignition switch ON	when rear view camera image is displayed.	(V) 0. 4 0 -0. 4 + 40μs SKIB2251J
7 (R/W)	Ground	Rear view camera ground	_	Ignition switch ON	_	0 V
8		0 011 : 1	0	Ignition	R position.	6.0 V
(R/L)	Ground	Camera ON signal	Output	switch ON	Other than R position.	0 V
11	Ground	Shield (camera image ground		Ignition switch ON	_	0 V
12 (B)	11	Camera image signal	Output	Ignition switch ON	when rear view camera image is displayed.	(V) 0. 4 0 -0. 4 -0. 4 -0. 4 -0. 4 -0. 4 -0. 4
14	Ground	Camera-connection recog-	Output	Ignition switch	Connected to camera control unit connector.	0 V
(L)	Giodila	nition signal	Output	ON	Not connected to camera control unit connector.	5.0 V
17 (BR)	_	AV communication signal (L)	Input/ Output	_	_	_
18 (Y)	_	AV communication signal (H)	Input/ Output	_	_	_

# < ECU DIAGNOSIS INFORMATION >

# [BOSE AUDIO WITHOUT NAVIGATION]

	minal e color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
19 (GR)	_	AV communication signal (L)	Input/ Output	_	_	_
20 (G)	_	AV communication signal (H)	Input/ Output	_	_	_
22	Ground	Reverse signal	Input	Ignition switch	R position.	12.0 V
(R)	Orodina	- Trovoros signar	mput	ON	Other than R position.	0 V
23				Ignition	Turn the steering to the right.	A: Sensor signal 1 B: Sensor signal 2
(G)	Ground	Sensor signal 1	Input	switch ON	Turn the steering to the left.	A: Sensor signal 1 B: Sensor signal 2
24	Cround	Sangar signal 2	legut	Ignition	Turn the steering to the right.	(V) 4 2 0 8 SKIB3827E A: Sensor signal 1 B: Sensor signal 2
(SB)	Ground	Sensor signal 2	Input	switch ON	Turn the steering to the left.	A: Sensor signal 1 B: Sensor signal 2

< ECU DIAGNOSIS INFORMATION >

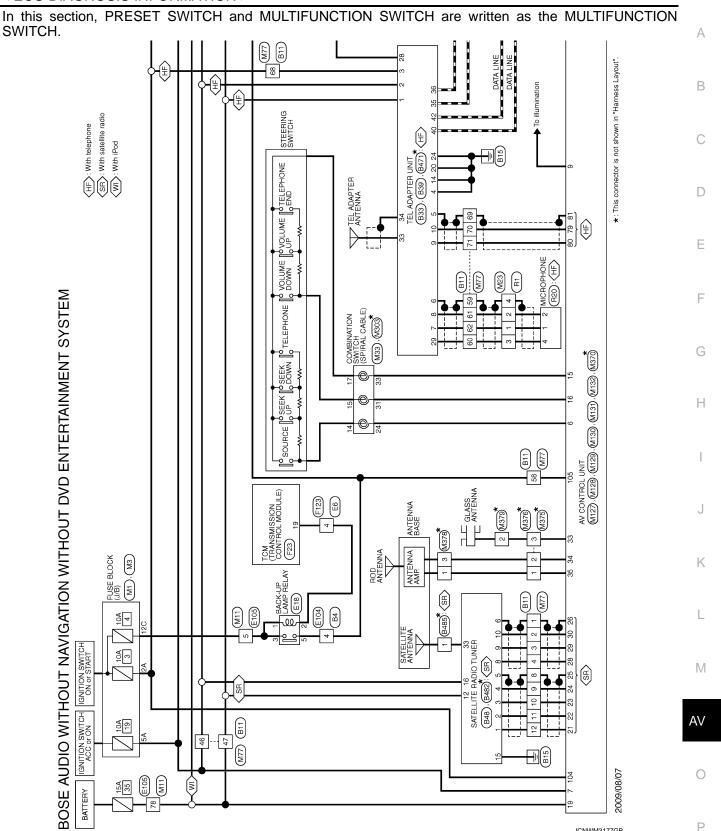
#### [BOSE AUDIO WITHOUT NAVIGATION]

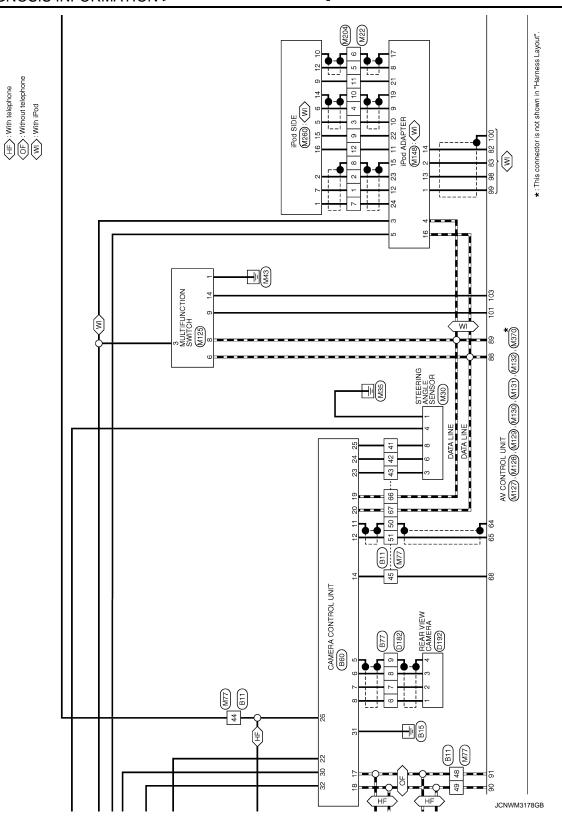
	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
25 (O)	Ground	Sensor signal 3	Input	Ignition switch ON	Turn the steering around the neutral position.	(V) 4 2 0 B SKIB3829E  A: Sensor signal 3 B: Sensor signal 1
26 (BR)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is approx. 40 km/h (25 MPH).	NOTE:  Maximum voltage may be 12 V due to specifications (connected units).  (V)  6 4 2 0  **20ms  SKIA6649J
30 (GR)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage
31 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
32 (V)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage

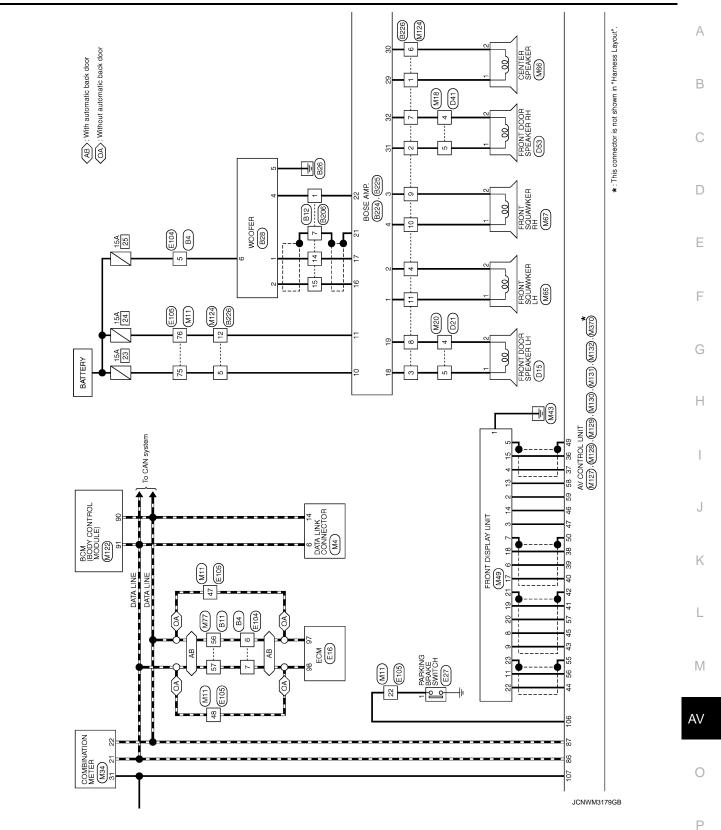
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION WITHOUT DVD ENTER-TAINMENT SYSTEM -

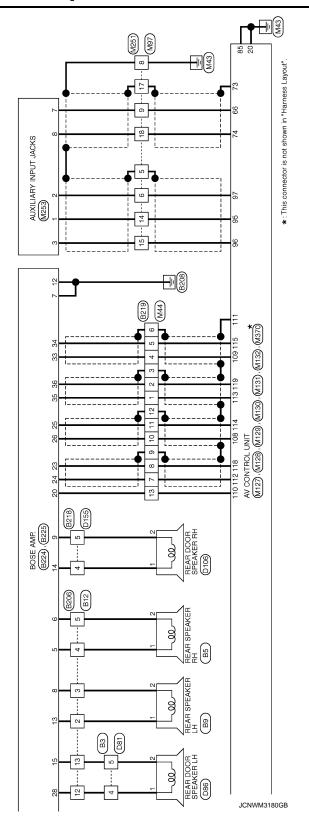
NOTE:

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BOSE AUDIO WITHOUT NAVIGATION WITHOUT DVD ENTERTAINMENT SYSTEM	12 BR	Н	15 0 –	- B 91		Connector No. B5	Connector Name REAR SPEAKER RH	Connector Type TK02FBR				2 1			Terminal Color Signal Name [Specification]		+	z   LG   _		Connector No. B9	Connector Name REAR SPEAKER LH	Connector Type TK02FBR		<b></b>	HS.	2 1		Color	No. of Wire Signal Name [Specification]	- SB	┨								
SE AUDIO WITHOUT NAVIGATION WI	Connector No. B3 Connector Name WIRE TO WIRE	Connector Type TK10FW-NS8			109876 54321	17 16 15 14 13 19 11		<u> </u> 8	Color Signal Name [Specification]			0	1		1	> {		Ž a		ပိ	7.0	D4	Connector Name   WIRE TO WIRE	Connector Type NS16MW-CS			1 2 3 <b>•••</b> 4 5 6 7 8 9 10 11 12 13 14 15 16			al Color Signal Name [Specification]			- M		0 4		1 00	TG	
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Revision: 2009 September AV-485 2010 Murano

4 W WOOFER AMP. ON SIGNAL	B/W	6 O BAT		Connector No Dog	Π		Connector Type TH08FW-NH	á	<b>E</b>		35 37 39 41	36 38 40 42			<u>ء</u>	No. of Wire Signar Marine Especifications	٨	BR	40 G AV COMM (H)	GR																											
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N WITHOUT DVD ENTERTAINMENT SYSTEM	Н	46 GR –	> ;	48 GR —[With rear view camera and telephone]	<u> </u>	50 SHIELD –	51 B -	52 B –	> !			╀		59 SHIELD –	- B 09	61 R/L –	Н	e3 LG –	64 Y –	H	+	ш	7	H	71 B/R –	+	+	74 SB -	- 1 6/ - 2 9/	20 00	돐	79 B –	H	81 R	+	BR	= = = = = = = = = = = = = = = = = = =	2 8	3 2	+	ľ	+	1	F		H	95 BR –
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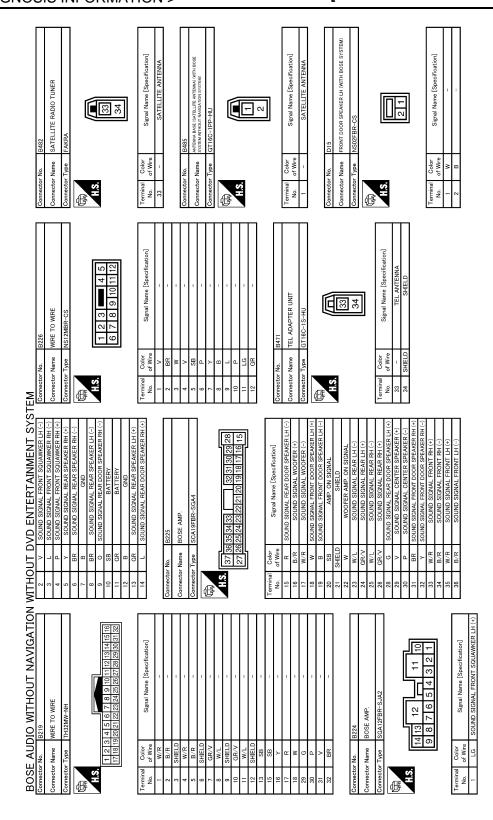
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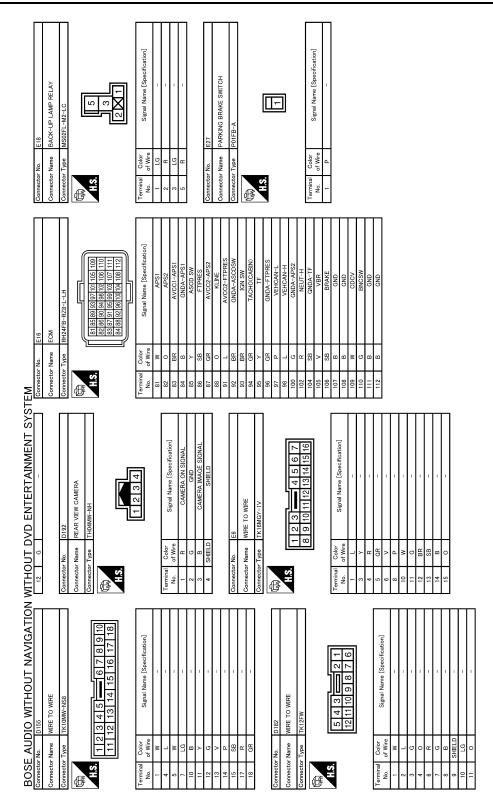
13   R	Terminal Color Signal Name [Specification]  1	
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Signal Name (Specification)  Signal Name (Specification)  Signal Name (Specification)  Signal Name (Specification)	АВ
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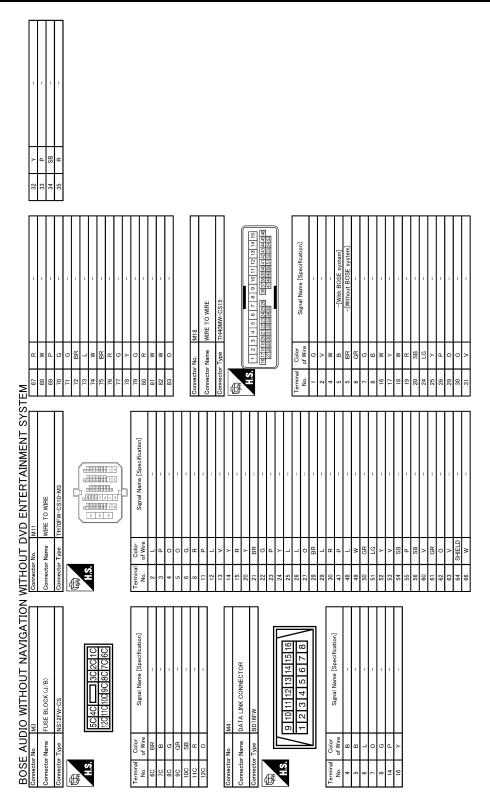
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[BOSE AUDIO WITHOUT NAVIGATION]

#### < ECU DIAGNOSIS INFORMATION >

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[BOSE AUDIO WITHOUT NAVIGATION]

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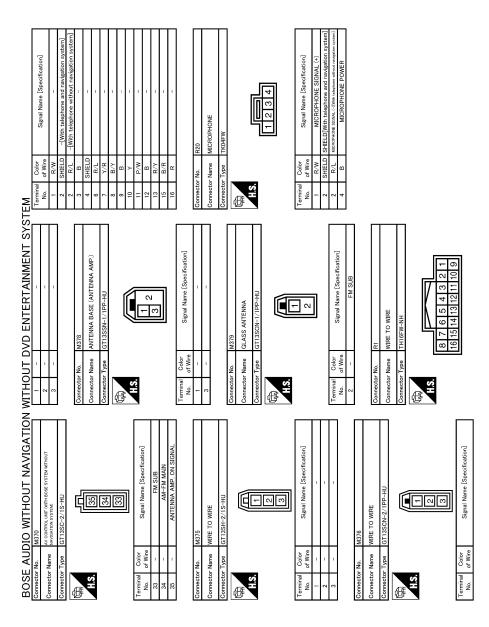
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Revision: 2009 September AV-495 2010 Murano

BOSE AUDIO WITHOUT NAVIGATION Connector No. M124 Connector Name WIRE TO WIRE Connector Type NSIZEBR-CS	S	nector No. nector Name nector Type	M129 AN CONTROL UNIT WITH BOSE SYSTEM WITHOUT INVOCATION BYSTEM) TH284PW-NH	66 68 73 74	Y P SHIELD R R R R	AUX IMAGE SIGNAL[Without DVD player] CONNECTION RECOGNITION SHIELD AUX IMAGE GND[With DVD player] AUX IMAGE GND[Without DVD nolawer]
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	Connector Type A12FW	50 SHIELD	SHIELD	83 83	m m	SOUND SIGNAL RH (+)[With DVD player] iPod SOUND SIGNAL RH (+)[Without DVD player]
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Connector Name MULTIFUNCTION SWITCH	H.S. 3032	57 R	COMM (CON I ->DISP)	88 88		CAN-H CAN-L
Connector Type TH16FW-NH	21 23 25 26 27 28 29 31	H	INVERTER GND	88	α.	AV COMM (H)
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	22 G SATELLITE RADIO SOUND SIGNAL LH (+) 23 R SATELLITE RADIO SOUND SIGNAL RH (-)	ector Type	TH16FW-NH	86	5 -	SOUND SIGNAL LH (=)[With DVD player] iPod SQLIND SIGNAL LH (=)[Without DVD player]
Terminal Color Signal Name [Soecification]	* *	Œ		66	П	SOUND SIGNAL LH (+)[With DVD player]
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1 B GND	26 SHIELD SHIELD 28 R REQUIEST (SAT->CONT)	67	7 66 65 64 63 62 61 60	8 5	SHIFLD	SHIELD[With DVD player]
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5 SB ILL CONT	Н	3		103	Μ	EJECT SIGNAL
6 R AV COMM (H)		ı.		104	ŋ	IGNITION
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w EJI		T	SHIELD	101	>	VEHICLE SPEED (8-PULSE)
		M J	COMPOSITE IMAGE SIGNAL COMPOSITE IMAGE SIGNAL[With DVD player]			

JCNWM3192GB

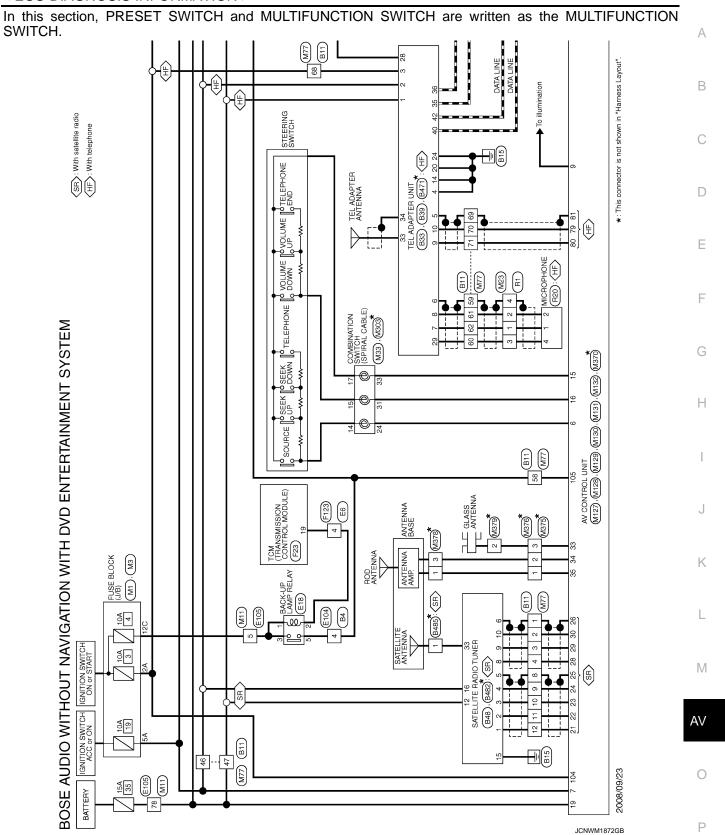
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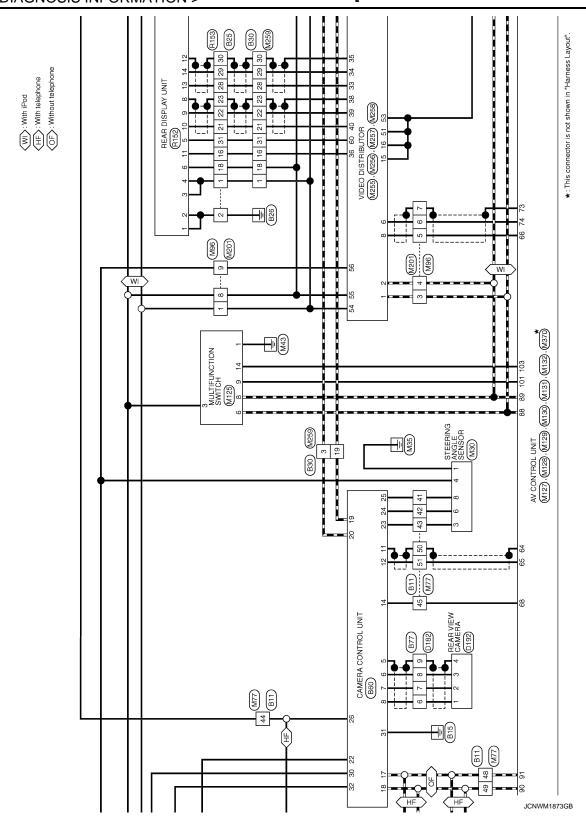


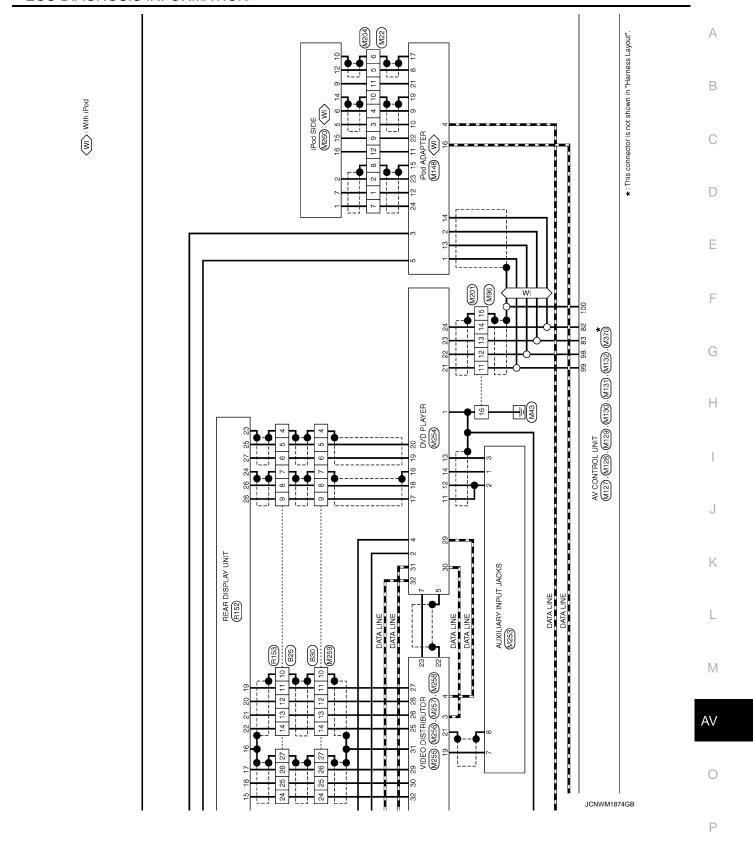
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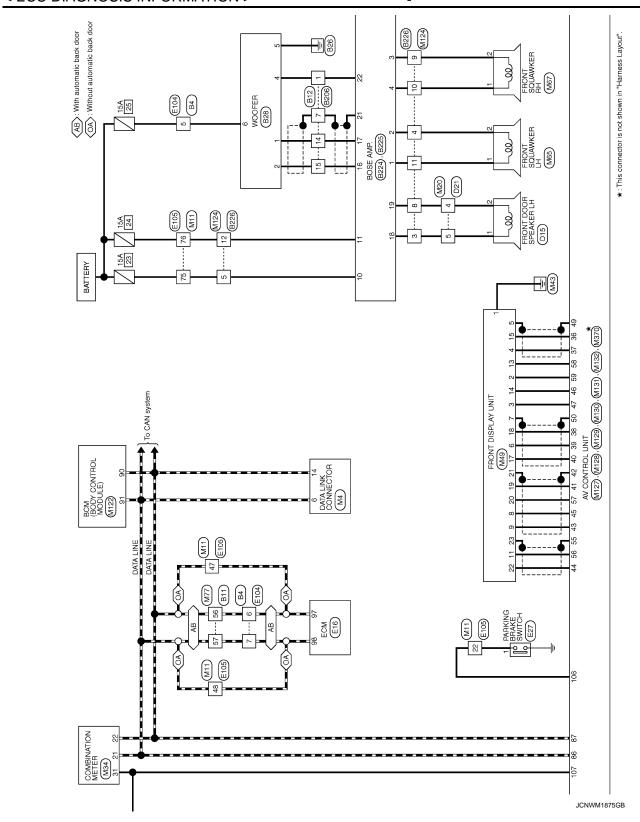
Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAIN-MENT SYSTEM -

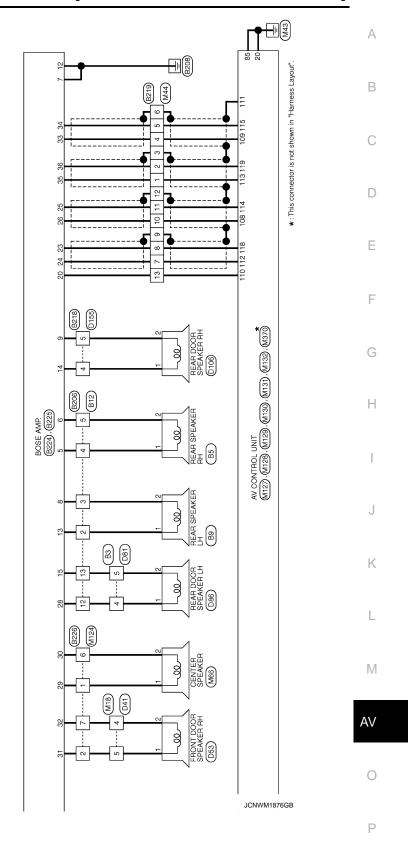
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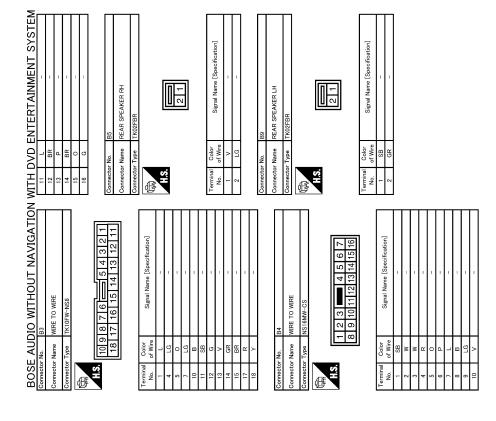












JCNWM3195GB

### **CAMERA CONTROL UNIT**

[BOSE AUDIO WITHOUT NAVIGATION]

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### < ECU DIAGNOSIS INFORMATION >

В	BOSE /	AUDIO WITHOUT NAVIGATION	<b>MITH</b>	WITH DVD	ENTERTAINMENT SYSTEM		
Ö	nnector No.	Vo. B11	44	BR	1	GR	4 SHIELD -
Ö	Connector Name	Name WIRE TO WIRE	45	_ 0		97 R	5 W/R =
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텕		WITH DVD ENTERTAINMENT SYSTEM						
Connector No. B30	Connector No. B33		Connector No.		B48	+	A	
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						Connector No	B27	Γ
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No. of Wire Signal Name [Specification]	_	Signal Name [Specification]	No.	of Wire	Signal Name [Specification]	Connector Name	e WIRE TO WIRE	
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3 6	36 BR	AV COMM (L)	2	J/,L	SOUND SIGNAL LH (+)	ſ	l	]
	40 G	AV COMM (H)	3	5/ <i>X</i>	SOUND SIGNAL RH (-)	B		
5 W/R -	42 GR	AV COMM (L)	4	BR/L	SOUND SIGNAL RH (+)	Ě		
- 7/M 9			2	SHIELD	SHIELD	2	1 2 3 4 5	
7 SHIELD -			9	SHIELD	SHIELD		1 1	
8 GR/V -	Connector No. B39		8	R/W	REQUEST (SAT->CONT)		7 1 1 0 8 9 7 0	
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H		ADAPTER UNIT	10	В	COMM (CONT->SAT)			
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H	2 4 6 8	10 12 14 16 18 20 22 24 26 28 30 32	Connector No.		B60	4 Y	1	
GR	1357	5 7 9 11 13 15 17 19 21 23 25 27 29 31	Namo Namo		CAMEDA CONTROL LINIT	6 R/L	- 1	
Г			Collecto		AMERA CONTROL ON:	7 R/W	- N	
22 W/R –			Connector Type		TH32FW-NH	8 B	1	
	la l	Signal Name [Specification]	þ			9 SHIELD	CT	
$\dashv$	No. of Wire	7	厚			4	1	
-	>	BATTERY	) I			11	-	
R/W	2 GR	ACC		E		12 V	-	
27 SHIELD –	3	IGNITION		io i	12 14 16 18 20 22 24 26 28 30			
28 B –	4 B/W	GND		132	9 1113 15 17 18 21 23 25 27 29 31			
	7	SHIELD						
굜	6 SHIELD	SHIELD						
31 P =	7 R/W	MICROPHONE SIGNAL	Terminal	Color	Signal Name [Specification]			
	8 R/L	MICROPHONE GND	No.	of Wire	Certain Cohomographic			
	9 B/R	TEL VOICE SIGNAL (+)	5	SHIELD	SHIELD			
	10 W/R	TEL VOICE SIGNAL (-)	9	В	CAMERA IMAGE SIGNAL			
	14 B	GND	7	R/W	GND			
	20 B	CONTROL SIGNAL	8	R/L	CAMERA ON SIGNAL			
	Н	CONTROL SIGNAL	=	SHIELD	SHIELD			
	28 BR	VEHICLE SPEED (8-PULSE)	12	В	CAMERA IMAGE SIGNAL			
	29 B	MICROPHONE VCC	14	_	CONNECTION RECOGNITION			
			17	BR	AV COMM (L)			
			18	>-	AV COMM (H)			
			19	GR	AV COMM (L)			

JCNWM3197GB

### **CAMERA CONTROL UNIT**

[BOSE AUDIO WITHOUT NAVIGATION]

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Ш	30SE	BOSE AUDIO WITHOUT NAVIGATION	WITH DVD		ENTERTAINMENT SYSTEM			
0	Connector No.	.No. B206	12	<b>5</b>	-	Connector No. B224	M/L	SOUND SIGNAL REAR LH (-)
Ö	Connector Name	Name WIRE TO WIRE	13	> 0	1 1	Connector Name BOSE AMP.	24 GR/V SO	SOUND SIGNAL REAR LH (+)
Ö	Connector T	Type NS16MW-CS	15	SB	-	Connector Type SGA12FBR-SJA2	GR/V	SOUND SIGNAL REAR RH (+)
ظلا	1		118	۳ ج 8	1 1	Œ	28 G SOUND SIC 29 V SOUND	SOUND SIGNAL REAR DOOR SPEAKER LH (+) SOUND SIGNAL CENTER SPEAKER (+)
, ,	S.						۵	NTER
3		2 3 • 4 5 6	Connector No.	o. B219	o	1413 12 11 10	31 BR SOUND SIG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
		8 9 10 11 12 13 14 15 16	Connector Name	Ji e	WIRE TO WIRE	987654321	W/R	SOUND SIGNAL FRONT RH (+)
			Connector Type	$\neg \neg$	TH32MW-NH		B/R W/R	SOUND SIGNAL FRONT RH (-) SOUND SIGNAL FRONT LH (+)
ᆫ	a l	Color Signal Name [Specification]	á	1		la l	B/R	JND SIGNAL FRONT LH (-)
1	No.		厚			re oigna ivanie Lopecincation.		
	0		H.S.			1 LG SOUND SIGNAL FRONT SQUAWKER LH (+)	(+)	
	3 6	25 A		2 3 4 5	5 6 7 8 9 10 11 12 13 14 15 16	t	COILLECTOR NO.	
	4		-	17 18 19 20	21 22 23 24 25 26 27 28 29 30 31	_	(+) Connector Name WIRE TO WIRE	IRE
_	Г	- BR	J			5 Y SOUND SIGNAL REAR SPEAKER RH (+)	Oonnector Type NS12MBR-CS	cs
ı	7 8	SHIELD -				6 BR SOUND SIGNAL REAR SPEAKER RH		
	8	- 8	la	Color	Signal Name [Specification]	В	匮	
_1	6		No.	of Wire	2	7	SE	
_1	9		-	W/R	1	0	1 2	3 4 5
	= :		2	B/R	1	+	2 9	8 9 10 11 12
	72 5	27 (	+	SHELD	1	æ c	1	
1	+	T ( )	$^{+}$	¥ (	1	a 5	T	
1	4 7	W/K	T	B/R	1	13 GR SOUND SIGNAL REAR SPEAKER CH (+)	H	
┙	1	B/K	ם י	ILLU	I	7	l erminal Golor	Signal Name [Specification]
			T	0.K/V	1		or wire	
Ľ		ſ	20 0	W/L	1	- N	> ;	1
<u>ا د</u>	onnector	T	T	SHIELD	1	I	$^{+}$	1
ن	Connector Name	Name WIRE TO WIRE	2 =	^ \/N		Connector Name BOSE AMP.	\$ >	
ľ	Connector Type	Type TK10FW-NS8	T	SHIELD	1	Connector Type SCA19FBR-SGA4	ľ	1
יו נ		1	13	SB	_	1	е в	-
<u> </u>	修		15	SB	1	修		-
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			30	1 >	1 1		12 GR	1
Ŀ	-		$^{+}$	> 6			Г	
_	erminal No	Color Signal Name [Specification]	┨	ž.	1	Signal Name [Specification]		
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	-					SOUND	(=)	
_1	4	L -[With BOSE system]				16 B/R SOUND SIGNAL WOOFER (+)	1	
_1	4					W/R	1	
	2					┪	<b></b>	
	2	B/P -[Without BOSE system]				B SOUND SIGNA	<b>①</b>	
	-	0				AMP	T	
	9 :	ω:				SHIELD		
	=					22 W WOOFER AMP. ON SIGNAL	7	
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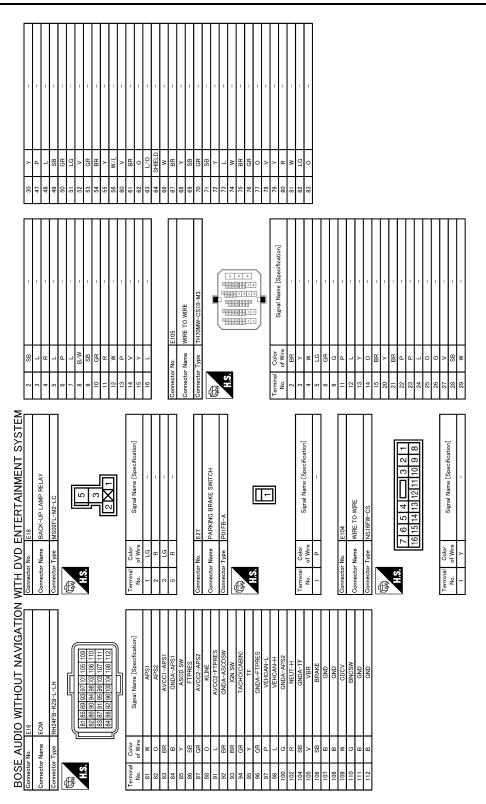
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### **CAMERA CONTROL UNIT**

### [BOSE AUDIO WITHOUT NAVIGATION]

	2		Α
E6 WIRE TO WIRE TK16MGY-1V  1 2 3	Signal Name [Specification]		В
			С
Connector No. Connector Name Connector Type	No. no. no. no. no. no. no. no. no. no. n		D
	pecification]  Pecification  SIGNAL  CE SIGNAL  LD  CE SIGNAL  LD		Е
D182 WIRE TO WIRE TK12FW  5 4 3 6 6 7 7 1 1 1 1 1 0 9 8 1	Signal Name [Specification]		F
octor No.	Octor of Wire P		G
	Terminal   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.		Н
WITH DVD ENTERTAINMENT SYSTEM Connector No. D106 Connector Name REAR DOOR SPEAKER RH WITH BOSE SYSTEM) Connector Type NS0278R-CS H.S.	Signal Name [Specification]  NS8  NS8  Signal Name [Specification]		I
ENTERTAIN DIOG PERA DOOR SPEAKER NSOZFBR-CS  Z 1			J
WITH DVD EN Connector No. D Connector Name RE Connector Name RE Connector Type IN INS.	Terminal   Color   No.   Of Wire     1   L     2   W		K
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JCNWM3201GB

BOS	E AU	BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAINMENT SYSTEM	MITH N	DVD E	NTERTAINMENT SYSTEM		
Connector No.	tor No.	F23	Connector No.		F123	Connector No.	M3
Connect	Connector Name	TCM (TRANSMISSION CONTROL MODULE)	Connecto	Connector Name	WIRE TO WIRE	Connector Name	FUSE BLOCK (J/B)
Connect	Connector Type	RH40FB-RZ8-L-RH	Connector Type	П	TK16FGY-1V	Connector Type	NS12FW-CS
Œ			ı			Œ	
H.S.	2 3	32 33 34 35 36 37 38 39 40 47 48 22 23 24 25 26 27 28 29 30 45 46	H.S.		654 = 321	H.S.	5C/4C  3C 2C 1C
				16	16 15 14 13 12 11 10 9 8		12d11d10d9cl8cl7cl6c
Terminal No.	al Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]	Terminal Color No. of Wire	Signal Name [Specification]
-	B/B		-	_	1	t	1
2	P/L	INH SW 3	က	G/R	1	7C B	1
8	0/5	INH SW 4	4	g/B	1	$\dashv$	1
4	g d	INH SW 3 MON	2	٤ ء	1	+	'
0 -	ກ ≥	SENSOR GND	۵ م	ž		110 28	
- ∞	. Q/N	CLOCK (SEL2)	02	Y/B	1	L	1
6	L/R	0	Ξ	BR/W	1		
10	BR/R	DATA I/O (SEL3)	12	BR	1		
Ξ	BR/W		13	ŋ	1	Connector No.	M4
13	>	ATF TEMP SENSOR	14	В	1	Connector Name	DATA LINK CONNECTOR
14	R/W	PRI PRESS SENSOR	15	0	1		П
12	W/V	SEC PRESS SENSOR				Connector Type	BD16FW
19	g/B			ſ		4	
50	R/B	s	Connector No.	T	M1	手	
25	× .	SENSOR GND	Connector Name		FUSE BLOCK (J/B)	HS	07 17 77 07 07 07 07
97	2 5	SENSOR POWER SOURCE(3V)	F	Т	CF 110001		9 10 11 17 13 14 13 10
77	2 0	G-W/S	Connect	7	4SU6FW-MZ	_	1 2 3 4 5 6 7 8
8	0/8	S.W-B	1			<u> </u>	
30	G/R	S/M-A				l	
31	۵	CAN-L	Ġ.		3A 2A 1A	Terminal Color	[ Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Since Sinc
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33	LG				V6 100 100 100	4 B	-
34	LG/R					5 B	1
37	Α/Υ	L/U&SEL-ON/OFF SOL		Ļ		9	1
88	Λ	L/U&SEL LINEAR SOL	Terminal		Signal Name [Specification]	+	1
38	M/B	SEC-LINEAR SOL	ė.	of Wire		4	1
40	≨	PL LINEAR SOL	₹	>	ī	14 P	1
45	m	GND	2A	g	1	16 Y	1
46	>	VIGN	34	>	t		
47	Γ,	BATT	4 <b>4</b>	æ	1		
48	>	VIGN	2 <b>A</b>	œ	I		
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Revision: 2009 September AV-511 2010 Murano

H	46 P	>	0	GR	× .	: د	53 V =[Without automatic drive positioner]	2 0	, g	30			Gonnector No. M22	Connector Name WIRE TO WIRE	Connector Type TH12FW-NH				֡֜֞֜֜֞֜֜֜֜֜֜֜֜֓֓֓֓֜֜֜֜֓֓֓֓֓֓֓֓֓֜֜֜֜֜֓֓֓֓֡֓֜֡֓֡֓֜֡֓֡֓֡֓֡֓֡֡֡֡֓֡֓֡֓֡֡֡֡֓֜֡֡֡֡֡֡	3	12 11 10 9 8 7		Terminal Color	_	- ·	ď	nr (	2 4	SHEID	LG	Q		10 SHIELD -	L	12 R -		T		T		T	T	T	T	T	
H	33 P –	$\dashv$	35 R –		- N	T	Connector Name WIRE TO WIRE	Connector Time TLAOMMI-CS15	1		0	1 2 3 4 5 6 7 8	[16]17]18[19]20[21]22[23]24[25]26 [36]37[38]39]40[41]42[43]44	en lected solice		Terminal Color		>	2 G	*	BB .		*88	- 0 8		+	0 (	14 B		, >		-	Ä	_	4	26 W –	α.	٦ "	98	32 W	L 8	9 0	<u> </u>	╀	2 0	
WITH DV	89	Ф	$\dashv$	9	BR -	7	- W 4/	Υ α	≥ 0	+	H	Н	$\dashv$	82 W	+		Connector No. M18	Connector Name WIRE TO WIRE	╗	Connector Type TH40MW-CS15	4	ATT.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	16 17 18 19 20 21 22 29 24 25 26 36 37 38 39 40 41 42 43 44 45 46			-	Signal Name [Specification]	╅	2 \ <	м	5 B -[With BOSE system]			7 G -	+	M :	<b>&gt;</b>	\$ (	× 8	90 07	2 >	- a		) c	,
BOSE AUDIO WITHOUT NAVIGATION	Consector Name   WIBE TO WIBE		Connector Type TH70FW-CS10-M3			1   1   1   1   1   1   1   1   1   1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		z T		Terminal Color Simol Name [Specification]		_	d 0	+	╀	H	т – –	12 L –	13 V -	+	1 2 V	- 88	22 G -		24 Y –	25 L =	= = = = = = = = = = = = = = = = = = =	2/ 0 -	╁	30 R -			49 W –	$\dashv$	51 LG –	- -	> 8	200	T 6	200	A S	i C	╀	- SHIFLD	3111

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### **CAMERA CONTROL UNIT**

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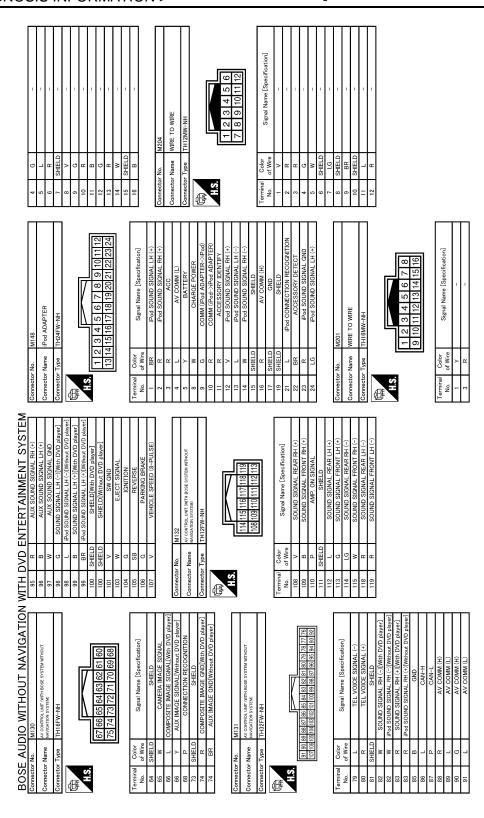
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BOSE AUDIO WITHOUT NAVIGATION	WITH DV	WITH DVD ENTERTAINMENT SYSTEM	_				
Connector No. M65	- B	BR -	37	>	1	06	- 5
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	2 V	-	41	Н	-	92	BR -
Connector Type TK02FBR			42	SB	1	93	
4			43	7	-	94	- ^
	Connector No.	M77	44	^	-	92	
	Memory	E SON OF ECON	45	Δ.	-	96	- BS
	Collifector Ivali		46		1	6	-
7	Connector Type	e TH80FW-CS19	47	>	1	86	- 57
	ı		48	_	1	66	- ×
	C C		49	9	ı		
			200	<u>8</u>	-		
	Ź	300	5	t		Connector No.	No. M96
No. of Wire Signal Name [Specification]			2	╀			Т
t		8 8 8 8 8 8 8 8 8 8 8 8	2	F		Connector Name	Name WIRE TO WIRE
ľ			25	ł		Connector Type	Type TH16EW-NH
2 Y – -[With BOSF system]		) ]	5	╀	1		1
ł	Torminal		95	, .		<b>1</b>	
	_	Signal Name [Specification]	3 2	+		手	
	+	p (	6	+	'	S	_ / \ 
I	<u> </u>	ΓD	ŝ	†	1		7 0 2
Connector No. M66	+		29	ά	1		0 2 4 3 2
Connector Name CENTER SPEAKER	3		09	В	-		16 15 14 13 12 11 10 9
	4		61		1		11
Connector Type TK02FBR	2	1	62	H	1		
1	H		63	H	1	Terminal	Color
<u> </u>	╁	1	9	╀		No	of Wire Signal Name [Specification]
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### **CAMERA CONTROL UNIT**

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BOSE AUDIO WITHOUT NAVIGATION Connector No. M253 Connector Name AUXILARY INPUT JACKS Connector Type A08FW  Connector Type A08FW	MITH DVD ENTERTAINMENT SYSTEM   21   B   SOUND SIGNAL LH (+)   22   G   SOUND SIGNAL LH (+)   23   R   SOUND SIGNAL RH (+)   24   W   SOUND SIGNAL RH (+)   24   W   SOUND SIGNAL RH (+)   29   L   AV COMM (L)   31   L   AV COMM (H)   31   L   AV COMM (H)   32   R   AV COMM (H)   32   R   AV COMM (H)   33   AV COMM (H)   34   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM (H)   35   AV COMM	77 EC DISTRIBUTOR GFW-NH	16   B   GND     19   G   AUX IMAGE SIGNAL     21   SHELD   SHELD     22   SHELD   SHELD     23   P   DVD IMAGE SIGNAL     24   SHELD   SHELD     25   P   DVD IMAGE SIGNAL     26   GOTTME CLOT     27   GOTTME CLOT     28   GND     29   GND     20   GND     20   GND     21   GND     22   GND     23   GND     24   GND     25   GND     26   GND     27   GND     28   GND     29   GND     20   GND     20   GND     20   GND     21   GND     22   GND     23   GND     24   GND     25   GND     26   GND     26   GND     27   GND     28   GND     29   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     21   GND     22   GND     24   GND     25   GND     26   GND     27   GND     28   GND     29   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   GND     20   G
12	Connector No. M255 Connector Name VIDEO DISTRIBUTOR	26 28 3 25 27 2	Connector Name WIRE TO WIRE Connector Type TH32MW-NH
No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.	П	Ferriman   Color   Signal Name   Specification   No.     No.   Ferriman   Color   Signal Name   Specification       25   R   RGB (RRED) SIGNAL       27   W   RGB (GNELUP) SIGNAL       28   G   RGB (BRLUP) SIGNAL       29   G   RGB (BRLUP) SIGNAL       29   G   RGB (BRLUP) SIGNAL       29   G   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       21   RGB (BRLUP) SIGNAL       22   RGB (BRLUP) SIGNAL       23   RGB (BRLUP) SIGNAL       24   RGB (BRLUP) SIGNAL       25   RGB (BRLUP) SIGNAL       26   RGB (BRLUP) SIGNAL       27   RGB (BRLUP) SIGNAL       28   RGB (BRLUP) SIGNAL       29   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       21   RGB (BRLUP) SIGNAL       22   RGB (BRLUP) SIGNAL       23   RGB (BRLUP) SIGNAL       24   RGB (BRLUP) SIGNAL       25   RGB (BRLUP) SIGNAL       26   RGB (BRLUP) SIGNAL       26   RGB (BRLUP) SIGNAL       27   RGB (BRLUP) SIGNAL       28   RGB (BRLUP) SIGNAL       29   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLUP) SIGNAL       20   RGB (BRLU	H.S.
LD AUX IMA		W SHIELD B RC	or Signal Name
Connector No. MZ54 Connector Name DVD PLAYER	Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   S3   B   GND   S4   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   SATTERY   S	33         G         COMPOSTTE SYNC           34         R         COMPOSTTE IMAGE SIGNAL           35         SHIELD         SHIELD           36         G         INTINITION	3 R
Connector Type ITH32FW-NH	V C G R HEADP	SHIELD COM	SHIELD R G G
1.3 5 7 1 9 11 13 15 17 18 21 25 25 27 27 27 27 27 27 27 27 27 27 27 27 27	Connector No. M256 Connector Name VIDEO DISTRIBUTOR Connector Twan THUPDA-BH	Connector No. M258 Connector Name VIDEO DISTRIBUTOR Connector Tons TH202W-NH	
Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   1 B   CND   2 Y   BATTERY   3 R   ILLUMINATION   4 ACC   5 SHELD   SHELD   SHELD		H.S. 2 4 6 8 10121416 18202224 1 3 5 7 9 11131517192123	M B B A N A N A N A N A N A N A N A N A N
7   P   DIVINAGES IGRIAL   H (-)     12   W   AUX SOUND SIGNAL EN (-)     13   G   AUX SOUND SIGNAL EN (-)     14   R   AUX SOUND SIGNAL EN (-)     16   SHIELD   SHIELD   SHIELD     17   G   HEADPHONE SOUNDSIGNAL SIGNAL EN (+)     18   R   HEADPHONE SOUNDSIGNAL SIGNAL EN (+)     19   V   HEADPHONE SOUNDSIGNAL SIGNAL EN (+)     10   V   HEADPHONE SOUNDSIGNAL SIGNAL EN (+)     10   V   HEADPHONE SOUNDSIGNAL SIGNAL EN (+)     10   V   HEADPHONE SOUNDSIGNAL SIGNAL EN (+)     10   V   HEADPHONE SOUNDSIGNAL SIGNAL EN (+)     11   V   HEADPHONE SOUNDSIGNAL SIGNAL EN (+)     12   V   HEADPHONE SOUNDSIGNAL SIGNAL EN (+)     13   V   HEADPHONE SOUNDSIGNAL SIGNAL EN (+)     14   V   HEADPHONE SOUNDSIGNAL SIGNAL EN (+)     15   V   HEADPHONE SOUNDSIGNAL SIGNAL EN (+)     16   HEADPHONE SOUNDSIGNAL SIGNAL EN (+)     17   V   V   V   V   V   V   V   V   V	Terminal Color Signal Name [Specification] 51 B GND GND	Terminal   Color   Signal Name [Specification]	28 G C
JCNWM3208GB			

BOSE AUDIO WITHOUT NAVIGATION	WITH DVD ENTERTAINMENT SYSTEM		
Connector No. M260	Connector No. M370		la
Connector Name iPod SIDE	Connector Name AV CONTROL UNIT (WITH BOSE SYSTEM WITHOUT NAVIDATION SYSTEM)	3	No. of Wire
Connector Type IP16FGY	Connector Type GT13SC-2/1S-HU		2 SHIELD -[With telephone and navigation system]
4		Ī	2 R/L -[With telephone without navigation system]
CHATA .	<u>"</u>	Т	3 B
1.5.	H.S.	Connector Name ANTENNA BASE (ANTENNA AMP.)	8/L
0, 0,	34	Connector Type GT13SSN-1/1PP-HU	7 Y/R
2		1	8 B/Y -
	3	唐	- 8 B
⊢	- 0	HS.	> 0
l erminal Color Signal Name [Specification]	I erminal   Color   Signal Name [Specification]   No of Wire	_	13 B
t	t		╀
	-		H
œ	35 – ANTENNA AMP. ON SIGNAL		16 R –
6 G COMM (iPod ADAPTER->iPod)		Terminal Golor Signal Name [Specification]	
٩	Connector No M375	+	Connector No B20
SHIELD	т	1	1
W	Connector Name WIRE TO WIRE		Connector Name MICROPHONE
14 SHIELD SHIELD	Connector Type GT13SH-2/1S-HU		Connector Type TK04FW
BR	á	Connector No. M379	á
16 R ACCESSORY IDENTIFY	医	Connector Name   GLASS ANTENNA	唐
	HS	Connector Type GT138CN-1 /100-HII	HS
Connector No. M303	-[c	1	
Connector Name COMBINATION SWITCH (SPIRAL CABLE)	7	<b>(((((((((((((</b>	3
	<u> </u>	Ties and the second	
Connector Type TRUSFGT		<u>-</u>	E
	Prminal Color   Signal Name [Specification]   No.   of Wire	0	
<u></u>		]	
-  -  -  -  -	= 7	T	2 SHIELD SHIELD[With telephone and navigation system]
20 19 18 17 16 15 14 13	+	_	B
		2 - FM SUB	
-	Connector No. M376		
No. of Wire Signal Name [Specification]	Connector Name WIRE TO WIRE	Connector No. R1	
13	Connector Type GT13SCN-2/1PP-HU	Omeon Name	
14 – –	á		
1		Connector Type TH16FW-NH	
16	HS.	Œ	
	]		
-	27	/	
20 – –	3	6 5 4 3 2	
	ē	[6] [1] [2] [4] [2] [4] [6]	
	No. of Wire		

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BOS	E AUE	BOSE AUDIO WITHOUT NAVIGATION WITH DVD ENTERTAINMENT	WITH	DVD E	NTERTAINMENT SYSTEM
Connector No.	or No.	R152	Connector No.		K153
Connector Name	or Name	REAR DISPLAY UNIT	Connector Name		WIRE TO WIRE
Connector Type	or Type	TH32FW-NH	Connector Type	П	TH32FW-NH
Œ			Œ		
H.S.			H.S.		
	2 4 6 1 3 5	8   10   12   14   16   18   20   22   24   26   28   30   32     7   9   11   13   15   17   19   21   23   25   27   29   31		16 15 14 32 31 30	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17
Terminal No.	Color of Wire	Signal Name [Specification]	Terminal No.	Color of Wire	Signal Name [Specification]
-	В	GND	-	Y/R	1
2	В	GND	2	В	1
3	Y/R	BATTERY	4	SHIELD	
4	Y/R	BATTERY	5	ΓG	_
2	ч	HEADPHONE ON SIGNAL	9	^	_
9	V/Y	ACC	7	SHIELD	-
8	SHIELD	SHIELD	8	BR	
6	۸	COMM (DISP->DIST)	6	Υ	-
10	ΓG	COMM (DIST->DISP)	10	SHIELD	_
11	g	IGNITION	11	M/L	-
12	SHIELD	SHIELD	12	5/X	-
13	G	COMPOSITE SYNC	13	J/X	-
14	ď	COMPOSITE IMAGE SIGNAL	14	BR/L	1
15	В	RGB AREA (YS) SIGNAL	16	5	-
16	SHIELD	GND	18	V/Y	_
17	œ	VP	21	ΓC	1
18	W	HP	22	>	_
19	W/L	RGB GND	23	SHIELD	-
20	Y/G	RGB (B:BLUE) SIGNAL	24	В	_
21	Y/L	RGB (G:GREEN) SIGNAL	25	Μ	-
22	BR/L	RGB (R:RED) SIGNAL	26	œ	-
23	SHIELD	SHIELD	27	SHIELD	-
24	SHIELD	SHIELD	28	5	-
25	57	HEADPHONE SOUNDSIGNAL SIGNAL RH (-)	59	В	-
56	BR	HEADPHONE SOUNDSIGNAL SIGNAL LH (-)	30	SHIELD	_
27	>	HEADPHONE SOUNDSIGNAL SIGNAL RH (+)	31	۳	-
28	Υ	HEADPHONE SOUNDSIGNAL SIGNAL LH (+)			Ì

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### SYMPTOM DIAGNOSIS

### MULTI AV SYSTEM SYMPTOMS

Symptom Table

#### **OPERATION**

Symptoms	Check items	Possible malfunction location / Action to take
	All switches cannot be operated.     "MULTI AV" is displayed on system selection screen when the CONSULT-III is started.	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-87, "CONSULT-III Function (MULTI AV)".
Multifunction switch and preset switch operation does not work.	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-107, "AV CONTROL UNIT: Diagnosis Procedure".
	Only specified switch cannot be operated.	Multifunction switch or preset switch malfunction.  Replace multifunction switch <u>AV-546, "Exploded View"</u> or preset switch <u>AV-547, "Exploded View"</u> .

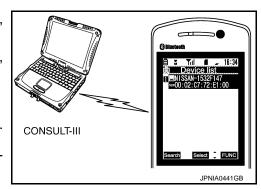
#### RELATED TO HANDS-FREE PHONE

#### **Basic Inspection**

- Check that the cellular phone is a corresponding type (Bluetooth[™] correspondence) when the hands-free related malfunction vehicle is in service before performing a diagnosis.
- There is a case that malfunction occurs due to the version change of the phone type, etc. even though it is a
  corresponding type. Therefore, confirm it by changing the cellular phone to another corresponding type
  phone, and check that it operates normally. It is necessary to distinguish whether the cause is the vehicle or
  cellular phone.

### Simple check for Bluetooth[™] communication

- If cellular phone and AV control unit cannot be connected with Bluetooth[™] communication, the following procedure allows the technician to judge which device has a malfunction.
- Turn on the cellular phone, not connecting Bluetooth[™] communication.
- 2. Start CONSULT-III, then start Windows®.
- 3. Set CONSULT-III near the cellular phone.
- 4. When operating Bluetooth[™] registration by cellular phone, check if CONSULT-III^{*} is displayed on the device name. (If another Bluetooth[™] device is located near the cellular phone, the name of the device will also be displayed.) NOTE:
  - *:Displayed device name is "NISSAN-*****."
- If no device name is displayed, cellular phone is malfunctioning.
   Repair the cellular phone first, then perform diagnosis.
- If CONSULT-III is displayed on device name, cellular phone is normal. Perform diagnosis as per the following table.



#### 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

### < SYMPTOM DIAGNOSIS >

### [BOSE AUDIO WITHOUT NAVIGATION]

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 <u>AV-559</u> , "Exploded View".
Hands-free phone cannot be established.	Both the reception and the speech cannot be performed	<ul> <li>Perform CONSULT-III self-diagnosis.     Refer to <u>AV-87</u>, "<u>CONSULT-III Function (MULTI AV)</u>".</li> <li>No malfunction.     TEL adapter unit malfunction.     Refer to <u>AV-559</u>, "<u>Exploded View</u>".</li> </ul>
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 "w\( \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Control signal circuit. Refer to AV-139, "Diagnosis Procedure".
Originating sound is not heard by the other party with hands-	Sound operation function is normal.	TEL adapter unit. Refer to AV-559, "Exploded View".
free phone communication.	Sound operation function does not work.	Microphone signal circuit. Refer to AV-137, "Diagnosis Procedure".
RELATED TO CAMERA		
rouble diagnosis chart by sympton		
Symptoms	Check items	Probable malfunction location
Camera image is not displayed (displayed in black and nothing can be displayed).	For front display unit, AUX image is not displayed.	<ul> <li>Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and front display unit.     Refer to <u>AV-120</u>, "<u>Diagnosis Procedure</u>".</li> <li>Vertical synchronizing (VP) signal circuit malfunction between AV control unit and front display unit.     Refer to <u>AV-121</u>, "<u>Diagnosis Procedure</u>".</li> </ul>
Camera image is not shown. (Vehicle width and possible route line is displayed.)	<del>_</del>	<ul> <li>Camera image signal circuit between camera control unit and rear view camera.</li> <li>Refer to <u>AV-140, "Diagnosis Procedure"</u>.</li> <li>Rear view camera ON signal circuit.</li> <li>Refer to <u>AV-141, "Diagnosis Procedure"</u>.</li> </ul>
	There is malfunction in the CONSULT-III self-diagnosis result.	Perform detected DTC self-diagnosis.  Refer to AV-87, "CONSULT-III Function (MULTI AV)".
	For front display unit, AUX image is normal.	Camera image signal circuit malfunction between camera control unit and AV control unit.  Refer to AV-142, "Diagnosis Procedure".
Camera image is not displayed. (Only warning message under area is displayed.)	For front display unit, AUX image is not displayed.	<ul> <li>RGB area (YS) signal circuit malfunction between AV control unit and front display unit.     Refer to AV-119, "Diagnosis Procedure".</li> <li>Composite image signal circuits malfunction between AV control unit and front display unit.     Refer to AV-122, "Diagnosis Procedure".</li> </ul>
	Select "Camera Cont." of Confirmation/ Adjustment mode, Reverse Sensor is not turned ON at "Connection Confirmation".	Reverse signal circuit malfunction (camera control unit).
Camera image is rolling.	For front display unit, AUX image is also rolling.	<ul> <li>Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and front display unit. Refer to AV-120, "Diagnosis Procedure".</li> <li>Vertical synchronizing (VP) signal circuit malfunction between AV control unit and front display unit. Refer to AV-121, "Diagnosis Procedure".</li> </ul>

### < SYMPTOM DIAGNOSIS >

### [BOSE AUDIO WITHOUT NAVIGATION]

Symptoms	Check items	Probable malfunction location
Camera image does not switch.	Malfunction of self-diagnosis result is indicated.	Camera-connection recognition signal circuit malfunction between AV control unit and camera control unit.  Refer to AV-102, "Diagnosis Procedure".
	Malfunction of self-diagnosis result is not indicated.	Reverse signal circuit malfunction (AV control unit).
Possible route line is indicated abnormally when camera image is displayed.	_	Steering angle sensor signal circuit malfunction. Refer to AV-143, "Diagnosis Procedure".

### RELATED TO RGB IMAGE (FRONT DISPLAY UNIT)

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take
RGB image is not shown.	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-87, "CONSULT-III Function (MULTI AV)".
	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-107, "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 front display unit.  Refer to AV-115, "Diagnosis Procedure".
	Purple (Magenta) tint.	RGB signal (G: green) circuit malfunction between AV control unit and front display unit.  Refer to AV-116. "Diagnosis Procedure".
	Screen looks yellowish.	RGB signal (B: blue) circuit malfunction between AV control unit and front display unit.  Refer to AV-117, "Diagnosis Procedure".
RGB screen is rolling.	Front display unit, AUX and DVD image are normal.	RGB synchronizing signal circuit malfunction between AV control unit and front display unit.  Refer to AV-118, "Diagnosis Procedure".

### **RELATED TO REAR DISPLAY**

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take
The menu screen is not displayed.	For rear display unit, AUX and DVD image are normal.	<ul> <li>Vertical synchronizing (VP) signal circuit malfunction between video distributor and rear display unit. Refer to AV-130, "Diagnosis Procedure".</li> <li>Horizontal synchronizing (HP) signal circuit malfunction between video distributor and rear display unit. Refer to AV-131, "Diagnosis Procedure".</li> <li>RGB area (YS) signal circuit malfunction between video distributor and rear display unit. Refer to AV-129, "Diagnosis Procedure".</li> </ul>
Color of RGB image (menu display screen) is not proper.	Light blue (Cyan) tint.	RGB signal (R: red) circuit malfunction between video distributor and rear display unit.  Refer to AV-125, "Diagnosis Procedure".
	Purple (Magenta) tint.	RGB signal (G: green) circuit malfunction between video distributor and rear display unit.  Refer to AV-126, "Diagnosis Procedure".
	Screen looks yellowish.	RGB signal (B: blue) circuit malfunction between video distributor and rear display unit.  Refer to AV-127, "Diagnosis Procedure".

Refer to AV-558, "Exploded View".

Perform CONSULT-III self-diagnosis.

· Antenna amp. ON signal circuit.

and satellite radio tuner.

· Antenna feeder.

Satellite radio sound signal circuit between AV control unit

Refer to AV-87, "CONSULT-III Function (MULTI AV)".

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< SYMPTOM DIAGNOSI	S >	[BOSE AUDIO WITHOUT NAVIGATION]
Symptoms	Check items	Possible malfunction location / Action to take
A107 150/5	Front display unit is not displayed.	Perform CONSULT-III self-diagnosis. Refer to AV-87, "CONSULT-III Function (MULTI AV)".
AUX and DVD image are not displayed.	Front display unit is normal.	Composite image signal circuit malfunction between video distributor and rear display unit.  Refer to AV-124, "Diagnosis Procedure".
AUX and DVD image are rolling.	Front display unit displayed, AUX and DVD image are not rolling.	Composite synchronizing signal circuit malfunction between video distributor and rear display unit.  Refer to AV-128, "Diagnosis Procedure".
Rear display unit does not open.	_	Perform detected DTC self-diagnosis. Refer to AV-87, "CONSULT-III Function (MULTI AV)".
RELATED TO AUDIO		
Trouble diagnosis chart by sympton	m	
Symptoms	Check items	Possible malfunction location / Action to take
The CD cannot be removed.	_	Disk eject signal circuit.
There is no Audio sound.	No sound from all speakers.	BOSE amp. power supply and ground circuit. Refer to AV-111, "BOSE AMP.: Diagnosis Procedure".     Amp. ON signal circuit between AV control unit and BOSE amp.
	No sound from woofer.	<ul> <li>Woofer power supply and ground circuit.     Refer to <u>AV-112</u>. "WOOFER: <u>Diagnosis Procedure</u>".</li> <li>Sound signal woofer circuit between BOSE amp. and woofer.</li> <li>Woofer amp. ON signal circuit between BOSE amp. and woofer.</li> </ul>
	There is no sound from center speaker.	Sound signal center speaker circuit.
	There is sound from only specific places (RH front, RH rear, LH front and LH rear).	Sound signal circuit of malfunctioning system.
	"ANTENNA" is not displayed even when the channel is turned to 0 in Satellite ra- dio mode.	Perform the following inspection procedure.  1. Check antenna base 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 antenna base.  Refer to AV-557, "Exploded View".  4. Replace the satellite radio tuner.  Refer to AV-558, "Exploded View".
Satellite radio is not received.	"ANTENNA" is displayed when the channel is turned to 0 in Satellite radio mode.	Perform the following inspection procedure.  Check the connection between satellite radio tuner and antenna connector.  Check the connection between satellite radio antenna and antenna feeder.  Check antenna feeder for open circuit.  Replace the antenna base.  Refer to AV-557, "Exploded View".  Replace the satellite radio tuner.

### RELATED TO iPod®

The sound of satellite radio is

It does not change to satellite

AM/FM radio is not received.

not heard.

radio mode.

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:

Other audio sounds are normal.

Other audio sounds are normal.

self-diagnosis result.

There is malfunction in the CONSULT-III

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### < SYMPTOM DIAGNOSIS >

### [BOSE AUDIO WITHOUT NAVIGATION]

It is unable to check connection between iPod  $^{\mbox{\scriptsize le}}$  and iPod harness.

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take
The iPod [®] does not produce sound.	Other audio sounds are normal.	<ul> <li>iPod sound signal circuit between AV control unit and iPod adapter.</li> <li>iPod sound signal circuit between iPod[®] and iPod adapter.</li> </ul>
It does not change to iPod mode.	There is malfunction in the CONSULT-III self-diagnosis.	Perform CONSULT-III self-diagnosis. Refer to AV-87, "CONSULT-III Function (MULTI AV)".
"iPod is not connected" is dis- played 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.	_	Serial communication circuit between iPod® and iPod
Accessing the iPod [®] is unavailable from the vehicle.		adapter.

#### 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-149, "Diagnosis Procedure".
Only specified switch cannot be operated.	Steering switch. Refer to AV-548, "Exploded View".
"SOURCE", "MENU UP", "MENU DOWN", " * " switches of steering switch are not operational.	Steering switch signal A circuit. Refer to AV-145, "Diagnosis Procedure".
"VOL UP", "VOL DOWN", " switches of steering switch are not operational.	Steering switch signal B circuit. Refer to AV-147, "Diagnosis Procedure".

# RELATED TO AUXILIARY INPUT (WITHOUT DVD PLAYER MODELS)

#### 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
For front display unit, AUX image is not displayed (Menu display is not displayed, too).	Camera image is not displayed (Also, menu display is not displayed).	<ul> <li>Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and front display unit.     Refer to AV-120, "Diagnosis Procedure".</li> <li>Vertical synchronizing (VP) signal circuit malfunction between AV control unit and front display unit.     Refer to AV-121, "Diagnosis Procedure".</li> </ul>
For front display unit, AUX image is not displayed (Menu display is normal).	Camera image is not displayed (Menu display is normal).	<ul> <li>Composite image signal circuits malfunction between AV control unit and front display unit.     Refer to AV-123, "Diagnosis Procedure".</li> <li>RGB area (YS) signal circuit malfunction between AV control unit and front display unit.     Refer to AV-119, "Diagnosis Procedure".</li> </ul>
	Camera image is normal.	AUX image signal circuit malfunction between AV control unit and auxiliary input jacks.  Refer to AV-132, "WITHOUT DVD ENTERTAINMENT SYSTEM: Diagnosis Procedure".

Composite image signal circuits malfunction between

video distributor and rear display unit.

Refer to AV-123, "Diagnosis Procedure".

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< SYMPTOM DIAGNOSIS	S >	[BOSE AUDIO WITHOUT NAVIGATION]
Symptoms	Check items	Probable malfunction location
For front display unit, AUX image is rolling.	Camera image is rolling.	<ul> <li>Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and front display unit.     Refer to AV-120, "Diagnosis Procedure".</li> <li>Vertical synchronizing (VP) signal circuit malfunction between AV control unit and front display unit.     Refer to AV-121, "Diagnosis Procedure".</li> </ul>
There is no AUX sound from speaker on the right or left side.	The sound other than AUX sound is normal.	AUX sound signal circuit malfunction between auxiliary input jacks and AV control unit at the side where there is no sound.
NOTE:	Y INPUT (WITH DVD PLAYER I	,
rouble diagnosis chart by symptom	1	
Symptoms	Check items	Probable malfunction location
Front display unit and rear display unit, AUX image is not displayed.	DVD image is not displayed.	Perform CONSULT-III self-diagnosis. Refer to AV-87, "CONSULT-III Function (MULTI AV)".
For front display unit, AUX image is not displayed (Menu display is normal).	DVD image is normal.	AUX image signal circuit malfunction between auxiliary input jacks and video distributor.  Refer to AV-133, "WITH DVD ENTERTAINMENT SYSTEM: Diagnosis Procedure".
	Camera image is normal.	Perform CONSULT-III self-diagnosis. Refer to AV-87.  "CONSULT-III Function (MULTI AV)". When detecting no malfunction in those components, the following items are a possible cause.  Composite image signal circuits malfunction between video distributor and AV control unit.  Refer to AV-123, "Diagnosis Procedure".
	DVD and camera images are not displayed (Menu display is normal).	Perform CONSULT-III self-diagnosis. Refer to AV-87.  "CONSULT-III Function (MULTI AV)". When detecting no malfunction in those components, the following items are a possible cause.  • RGB area (YS) signal circuit malfunction between AV control unit and front display unit.  Refer to AV-119, "Diagnosis Procedure".  • Composite image signal circuits malfunction between front display unit and AV control unit.  Refer to AV-122, "Diagnosis Procedure".
For front display unit, AUX image is not displayed (Menu display is not displayed, too).	DVD image is not displayed (Also, menu display is not displayed).	<ul> <li>Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and front display unit.     Refer to AV-120, "Diagnosis Procedure".</li> <li>Vertical synchronizing (VP) signal circuit malfunction between AV control unit and front display unit.     Refer to AV-121, "Diagnosis Procedure".</li> </ul>
For front display unit, AUX image is rolling.	DVD image is rolling.	<ul> <li>Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and front display unit.     Refer to AV-120, "Diagnosis Procedure".</li> <li>Vertical synchronizing (VP) signal circuit malfunction between AV control unit and front display unit.</li> </ul>

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DVD image is not displayed (Menu display

is normal).

For rear display unit, AUX im-

play is normal).

age is not displayed (Menu dis-

### < SYMPTOM DIAGNOSIS >

### [BOSE AUDIO WITHOUT NAVIGATION]

Symptoms	Check items	Probable malfunction location
At AUX of rear display, menu display is not displayed.	AUX image is normal.	<ul> <li>Vertical synchronizing (VP) signal circuit malfunction between video distributor and rear display unit. Refer to AV-130, "Diagnosis Procedure".</li> <li>Horizontal synchronizing (HP) signal circuit malfunction between video distributor and rear display unit. Refer to AV-131, "Diagnosis Procedure".</li> <li>RGB area (YS) signal circuit malfunction between video distributor and rear display unit. Refer to AV-129, "Diagnosis Procedure".</li> </ul>
For rear display unit, AUX and DVD image are rolling.	Front display unit displayed, AUX and DVD image are not rolling.	Composite synchronizing signal circuit malfunction between video distributor and rear display unit.  Refer to AV-128. "Diagnosis Procedure".
There is no AUX sound.	_	Perform CONSULT-III self-diagnosis. Refer to AV-87, "CONSULT-III Function (MULTI AV)".
There is no AUX sound from speaker on the right or left side.	DVD sound is not normal, neither.	DVD and AUX sound signal circuit malfunction between DVD player and AV control unit at the side where there is no sound.
	The sound other than AUX sound is normal.	AUX sound signal circuit malfunction between auxiliary input jacks and DVD player at the side where there is no sound.
It does not change to AUX mode.	There is malfunction in the CONSULT-III self-diagnosis result.	Perform CONSULT-III self-diagnosis. Refer to AV-87, "CONSULT-III Function (MULTI AV)".

### RELATED TO DVD MODE

Trouble diagnosis chart by symptom				
Symptoms	Check items	Probable malfunction location		
Front display unit and rear display unit, DVD image is not displayed.	AUX image is not displayed.	Perform CONSULT-III self-diagnosis. Refer to AV-87, "CONSULT-III Function (MULTI AV)".		
For front display unit, DVD image is not displayed (Menu display is normal).	Camera image is normal.	Perform CONSULT-III self-diagnosis. Refer to AV-87.  "CONSULT-III Function (MULTI AV)". When detecting no malfunction in those components, the following items are a possible cause.  Composite image signal circuits malfunction between video distributor and AV control unit.  Refer to AV-123, "Diagnosis Procedure".		
	Camera image is not displayed (Only warning message under area is displayed).	<ul> <li>Composite image signal circuits malfunction between AV control unit and front display unit.     Refer to AV-122, "Diagnosis Procedure".</li> <li>RGB area (YS) signal circuit malfunction between AV control unit and front display unit.     Refer to AV-119, "Diagnosis Procedure".</li> </ul>		
For front display unit, DVD image is not displayed (Menu display is not displayed).	AUX image is not displayed (Menu display is not displayed).	<ul> <li>Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and front display unit.     Refer to AV-120, "Diagnosis Procedure".</li> <li>Vertical synchronizing (VP) signal circuit malfunction between AV control unit and front display unit.     Refer to AV-121, "Diagnosis Procedure".</li> </ul>		
For front display, DVD image is rolling.	AUX image is rolling.	<ul> <li>Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and front display unit.     Refer to AV-120, "Diagnosis Procedure".</li> <li>Vertical synchronizing (VP) signal circuit malfunction between AV control unit and front display unit.     Refer to AV-121, "Diagnosis Procedure".</li> </ul>		
For rear display, DVD image is not displayed (Menu display is normal).	AUX image is not displayed (Menu display is normal).	Composite image signal circuits malfunction between video distributor and rear display unit.  Refer to AV-124, "Diagnosis Procedure".		

### < SYMPTOM DIAGNOSIS >

### [BOSE AUDIO WITHOUT NAVIGATION]

"CONSULT-III Function (MULTI AV)". When detecting no malfunction in those components, the following items are

a possible cause. Rear display unit.

Symptoms	Check items	Probable malfunction location
At DVD of rear display unit, menu display is not displayed.	DVD image is normal.	<ul> <li>Vertical synchronizing (VP) signal circuit malfunction between video distributor and rear display unit. Refer to AV-130. "Diagnosis Procedure".</li> <li>Horizontal synchronizing (HP) signal circuit malfunction between video distributor and rear display unit. Refer to AV-131. "Diagnosis Procedure".</li> <li>RGB area (YS) signal circuit malfunction between video distributor and rear display unit. Refer to AV-129. "Diagnosis Procedure".</li> </ul>
For rear display unit, DVD and AUX image are rolling.	Front display unit displayed, DVD and AUX image are not rolling.	Composite synchronizing signal circuit malfunction between video distributor and rear display unit.  Refer to AV-128, "Diagnosis Procedure".
There is no DVD sound.	_	Perform CONSULT-III self-diagnosis. Refer to AV-87, "CONSULT-III Function (MULTI AV)".
There is no DVD sound from speaker on the right or left side.	AUX sound is not normal, neither.	DVD and AUX sound signal circuit malfunction between DVD player and AV control unit at the side where there is no sound.
It does not change to DVD mode.	There is malfunction in the CONSULT-III self-diagnosis result.	Perform CONSULT-III self-diagnosis. Refer to AV-87, "CONSULT-III Function (MULTI AV)".
RELATED TO REMOTE rouble diagnosis chart by sympton	CONTROL AND HEADPHONE	
Symptoms	Check items	Probable malfunction location
	Change headphones to another set.	They operate normally.  • Battery of headphones.  • Headphones.
Headphone does not work		It does not operate normally.     Headphone sound signal circuit malfunction between DVD player and rear display unit.     Headphone ON signal circuit malfunction between video distributor and rear display unit.
		They operate normally.  Battery of remote controller. Remote controller body.
Remote control does not work.	Change remote controller to another one.	It does not operate normally. Perform CONSULT-III self-diagnosis. Refer to AV-87.

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### NORMAL OPERATING CONDITION

**Description** 

#### NOTE:

Vehicle operation information, refer to Owner's Manual.

#### **BASIC OPERATIONS**

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

#### RELATED TO 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 resolves.

Symptom	Solution	
System fails to interpret the command correctly.	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	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	
	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.	
Cannot play	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.	
	Check if the CD is protected by copyright.	
Poor sound quality	Check if the CD is scratched or dirty.	
It takes a relatively long time before the music starts playing.	If there are many folder or file levels on the MP3/WMA CD, or if it is a multisession disc, some time may be required before the music starts playing.	
Music cuts off or skips	The writing software and hardware combination might not match, or the writing speed, writing depth, writing width might not match the specifications. Try using the slowest writing speed.	
Skipping with high bit rate files	Skipping may occur with large quantities if data such as for high bit rate data.	
Move immediately to the next song when playing	When a non-MP3/WMA file has been given an extension of ".MP3", ".WMA", ".mp3", or ".wma", or when play is prohibited by copyright protection, the player will skip to the next song.	
The songs do not play back in the desired order.	The playback order is the order in which the files were written by the software, so the files might not play in the desired order.	

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

#### NOTE:

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

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### **PRECAUTION**

# PRECAUTIONS FOR USA AND CANADA

FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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

#### **WARNING:**

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

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

#### **WARNING:**

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

FOR USA AND CANADA: Precaution for Trouble Diagnosis

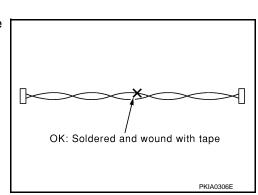
#### AV COMMUNICATION SYSTEM

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

FOR USA AND CANADA: Precaution for Harness Repair

#### AV COMMUNICATION SYSTEM

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

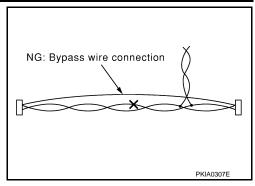


INFOID:0000000005528610

INFOID:0000000005528611

#### [BOSE AUDIO WITHOUT NAVIGATION]

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



FOR MEXICO

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

#### **WARNING:**

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

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

#### **WARNING:**

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

FOR MEXICO: Precaution for Trouble Diagnosis

### 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 at 7.0 V or less.
- Turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

FOR MEXICO: Precaution for Harness Repair

AV COMMUNICATION SYSTEM

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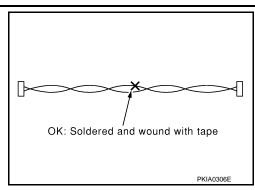
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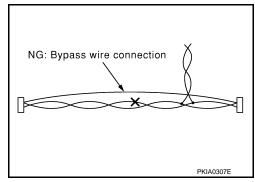
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 Solder the repaired parts, and wrap with tape. [Frays of twisted line must be within 110 mm (4.33 in).]



 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**

Tool name		Description
Power tool	PBIC0191E	Loosening screws

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2010 Murano

# REMOVAL AND INSTALLATION

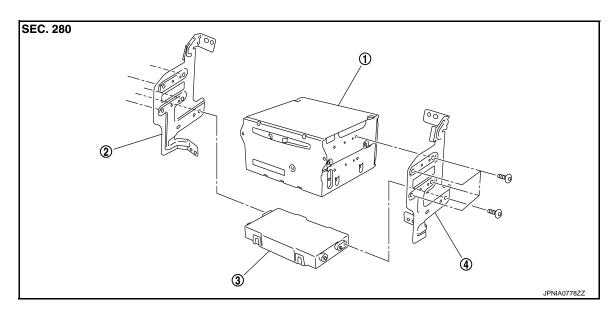
### AV CONTROL UNIT

Exploded View

**REMOVAL** 

Refer to IP-12, "Exploded View".

**DISASSEMBLY** 



1. AV control unit

2. Bracket LH

3. A/C auto amp.

4. Bracket RH

### Removal and Installation

INFOID:0000000005528614

### **REMOVAL**

- 1. Remove cluster lid C. Refer to IP-12, "Exploded View".
- 2. Remove AV control unit with a A/C auto amp. as a single unit from the body.
- 3. Remove bracket screws, and then remove AV control unit.

#### INSTALLATION

Install in the reverse order of removal.

### **FRONT DISPLAY UNIT**

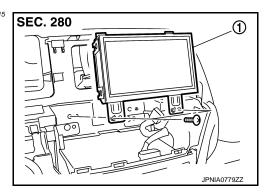
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

### FRONT DISPLAY UNIT

**Exploded View** 

INFOID:0000000005528615



. Front display unit

### Removal and Installation

REMOVAL

- 1. Remove center ventilator assembly. Refer to IP-12, "Exploded View".
- 2. Remove display unit with bracket as a single unit.

### **INSTALLATION**

Install in the reverse order of removal.

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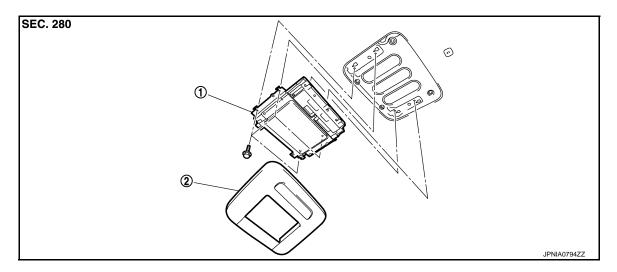
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2010 Murano

### **REAR DISPLAY UNIT**

Exploded View

### **REMOVAL**



1. Rear display unit

2. Rear display cover

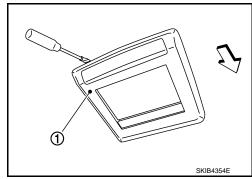
### Removal and Installation

INFOID:0000000005528618

### **REMOVAL**

Insert cloth-covered driver into gaps between rear display cover
 and headlining, and remove rear display cover.

Vehicle front



2. Disconnect rear display unit connector, remove rear display unit screws and remove the rear display unit.

#### **INSTALLATION**

Install in the reverse order of removal.

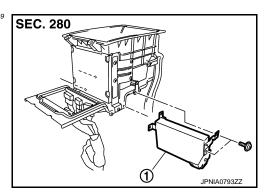
### **VIDEO DISTRIBUTOR**

### [BOSE AUDIO WITHOUT NAVIGATION]

### **VIDEO DISTRIBUTOR**

**Exploded View** 

INFOID:0000000005528619



Video distributor

### Removal and Installation

### **REMOVAL**

- 1. Remove lower console finisher LH and lower console finisher RH. Refer to IP-20, "Exploded View".
- 2. Disconnect video distributor connector, remove video distributor screws and remove the video distributor.

### **INSTALLATION**

Install in the reverse order of removal.

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### [BOSE AUDIO WITHOUT NAVIGATION]

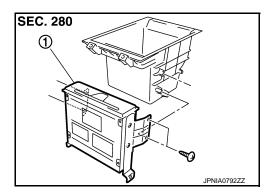
### **DVD PLAYER**

Exploded View

**REMOVAL** 

Refer to IP-20, "Exploded View".

**DISASSEMBLY** 



1. DVD player

### Removal and Installation

INFOID:0000000005528622

### **REMOVAL**

- 1. Remove center console assembly. Refer to <a href="IP-20">IP-20</a>, "Exploded View".
- 2. Disconnect DVD player connector, remove DVD player screws and remove the DVD player.

#### **INSTALLATION**

Install in the reverse order of removal.

### FRONT DOOR SPEAKER

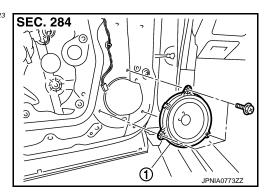
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

### FRONT DOOR SPEAKER

**Exploded View** 

INFOID:0000000005528623



. Front door speaker

### Removal and Installation

#### **REMOVAL**

- 1. Remove front door finisher. Refer to <a href="INT-12">INT-12</a>, "FRONT DOOR FINISHER: Exploded View".
- Remove front door speaker screws, then disconnect front door speaker connector and remove front door speaker.

### **INSTALLATION**

Install in the reverse order of removal.

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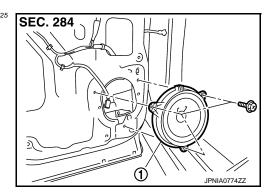
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### REAR DOOR SPEAKER

**Exploded View** 

INFOID:0000000005528625



Rear door speaker

### Removal and Installation

INFOID:0000000005528626

### **REMOVAL**

- Remove rear door finisher. Refer to <u>INT-16, "REAR DOOR FINISHER: Exploded View"</u>.
- 2. Remove rear door speaker screws, then disconnect rear door speaker connector and remove rear door speaker.

### **INSTALLATION**

Install in the reverse order of removal.

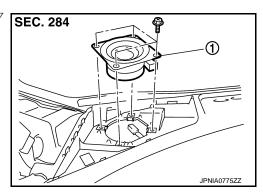
# **FRONT SQUAWKER**

## [BOSE AUDIO WITHOUT NAVIGATION]

# FRONT SQUAWKER

**Exploded View** 

INFOID:0000000005528627



Front squawker

## Removal and Installation

### **REMOVAL**

- 1. Remove speaker grille. Refer to <a href="IP-12">IP-12</a>, "Exploded View".
- Remove front squawker screws, lift up the front squawker and disconnect front squawker connector. Then remove the front squawker.

#### **INSTALLATION**

Install in the reverse order of removal.

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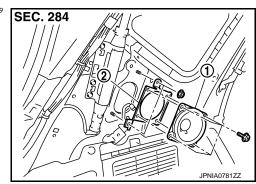
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## [BOSE AUDIO WITHOUT NAVIGATION]

# REAR SPEAKER

# **Exploded View**

INFOID:0000000005528629



- 1. Rear speaker
- 2. Rear speaker bracket

## Removal and Installation

INFOID:0000000005528630

### **REMOVAL**

- 1. Remove luggage side finisher upper. Refer to <a href="INT-34">INT-34</a>, "Exploded View".
- 2. Remove rear speaker screws, lift up the rear speaker and disconnect rear speaker connector. Then remove the rear speaker.

#### **INSTALLATION**

## **CENTER SPEAKER**

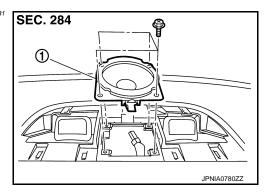
### < REMOVAL AND INSTALLATION >

# [BOSE AUDIO WITHOUT NAVIGATION]

# **CENTER SPEAKER**

**Exploded View** 

INFOID:0000000005528631



. Center speaker

# Removal and Installation

REMOVAL

- 1. Remove center speaker grille. Refer to IP-12, "Exploded View".
- Remove center speaker screws, lift up the center speaker and disconnect center speaker connector. Then remove the center speaker.

#### **INSTALLATION**

Install in the reverse order of removal.

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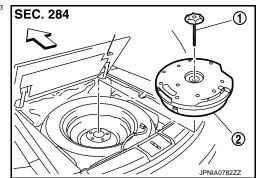
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# [BOSE AUDIO WITHOUT NAVIGATION]

# **WOOFER**

# **Exploded View**

INFOID:0000000005528633



- <a>: Vehicle front</a>
- 1. Clamp
- 2. Woofer

## Removal and Installation

INFOID:0000000005528634

### **REMOVAL**

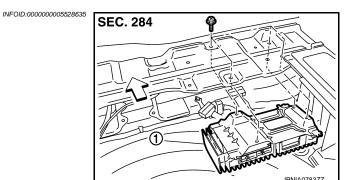
- 1. Remove luggage floor finisher center (back). Refer to <a href="INT-34">INT-34</a>, "Exploded View".
- 2. Remove clamp, disconnect woofer connector and remove the woofer.

#### **INSTALLATION**

## [BOSE AUDIO WITHOUT NAVIGATION]

# BOSE AMP.

# **Exploded View**



⟨
⇒: Vehicle front

1. BOSE amp.

## Removal and Installation

INFOID:0000000005528636

### **REMOVAL**

- 1. Remove luggage floor finisher. Refer to INT-34, "Exploded View".
- 2. Remove BOSE amp. screws, disconnect BOSE amp. connector and remove the BOSE amp.

#### **INSTALLATION**

Install in the reverse order of removal.

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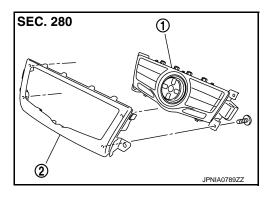
# **MULTIFUNCTION SWITCH**

Exploded View

**REMOVAL** 

Refer to IP-12, "Exploded View".

**DISASSEMBLY** 



- 1. Multifunction switch
- Cluster lid D

## Removal and Installation

INFOID:0000000005528638

#### **REMOVAL**

- 1. Remove cluster lid D. Refer to IP-12, "Exploded View".
- 2. Remove multifunction switch with center ventilator grille as a single unit.
- 3. Remove multifunction switch screws, remove multifunction switch from cluster lid D.

#### **INSTALLATION**

# [BOSE AUDIO WITHOUT NAVIGATION]

# PRESET SWITCH

**Exploded View** 

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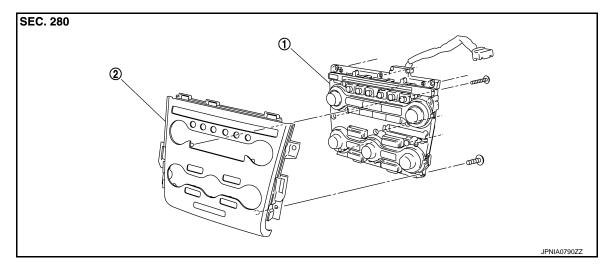
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**REMOVAL** 

Refer to IP-12, "Exploded View".

**DISASSEMBLY** 



1. Preset switch

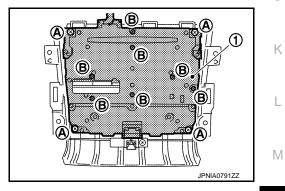
2. Cluster lid C

### Removal and Installation

INFOID:0000000005528640

### **REMOVAL**

- 1. Remove cluster lid C. Refer to IP-12, "Exploded View".
- 2. Remove preset switch screws (A), (B), remove preset switch (1) from cluster lid C.



**INSTALLATION** 

Install in the reverse order of removal.

11/

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## STEERING SWITCH

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

# STEERING SWITCH

Exploded View

Refer to ST-17, "Exploded View".

Removal and Installation

**REMOVAL** 

Refer to ST-17, "Exploded View".

**INSTALLATION** 

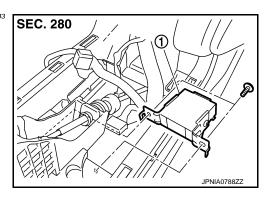
## **IPOD ADAPTER**

# [BOSE AUDIO WITHOUT NAVIGATION]

# **IPOD ADAPTER**

**Exploded View** 

INFOID:0000000005528643



1. iPod adapter

# Removal and Installation

### **REMOVAL**

- 1. Remove front console pocket assembly. Refer to <a href="IP-20">IP-20</a>, "Exploded View".
- Disconnect iPod adapter connector, remove iPod adapter screws and remove the iPod adapter.

### **INSTALLATION**

Install in the reverse order of removal.

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## [BOSE AUDIO WITHOUT NAVIGATION]

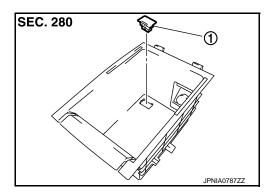
# **IPOD CONNECTOR**

Exploded View

**REMOVAL** 

Refer to IP-20, "Exploded View".

**DISASSEMBLY** 



iPod connector

## Removal and Installation

INFOID:0000000005528646

### **REMOVAL**

- 1. Remove center console. Refer to IP-20, "Exploded View".
- 2. Press the pawl from the back of center console to remove iPod connector.

### **INSTALLATION**

# **AUXILIARY INPUT JACKS**

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITHOUT NAVIGATION]

# **AUXILIARY INPUT JACKS**

**Exploded View** 

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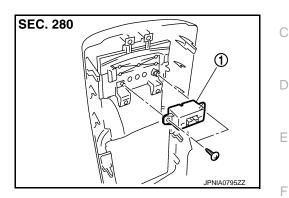
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**REMOVAL** 

Refer to IP-20, "Exploded View".

DISASSEMBLY



1. Auxiliary input jacks

## Removal and Installation

INFOID:0000000005528648 (

### **REMOVAL**

- 1. Remove console rear finisher. Refer to <a href="IP-20">IP-20</a>, "Exploded View".
- 2. Remove auxiliary input jacks from center console.

### **INSTALLATION**

Install in the reverse order of removal.

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## [BOSE AUDIO WITHOUT NAVIGATION]

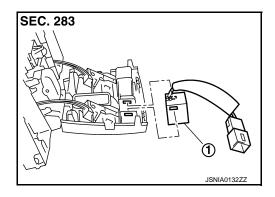
# **MICROPHONE**

Exploded View

**REMOVAL** 

Refer to INL-121, "Exploded View".

**DISASSEMBLY** 



1. Microphone

## Removal and Installation

INFOID:0000000005528650

### **REMOVAL**

- 1. Remove map lamp. Refer to INL-121, "Exploded View".
- 2. Remove microphone from map lamp.

# **INSTALLATION**

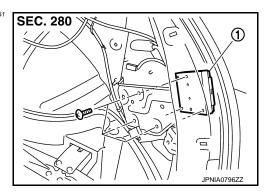
### **CAMERA CONTROL UNIT**

[BOSE AUDIO WITHOUT NAVIGATION]

# **CAMERA CONTROL UNIT**

**Exploded View** 

INFOID:0000000005528651



Camera control unit

### Removal and Installation

REMOVAL

- Remove luggage side finisher lower (RH). Refer to <u>INT-34, "Exploded View"</u>.
- Remove camera control unit screws, disconnect camera control unit connector and remove the camera control unit.

## **INSTALLATION**

Install in the reverse order of removal.

Adjustment

#### **ADJUSTMENT**

There may be a misalignment of possible route line center position of rear view monitor after removing camera control unit. Therefore, correct neutral position with the following procedure.

- Steer the steering wheel to the leftmost and rightmost ends.
- 2. Drive vehicle at 30 km/h (18.6 MPH) min. speed at least 100 m (328.1 ft).

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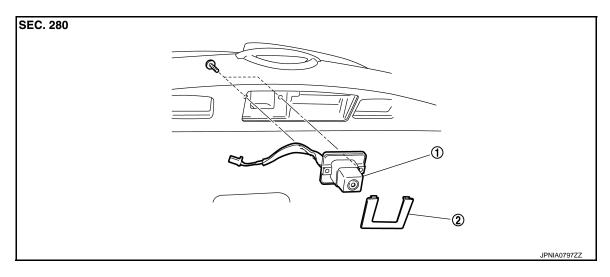
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# **REAR VIEW CAMERA**

Exploded View



1. Rear view camera

2. Finisher

### Removal and Installation

INFOID:0000000005528655

### **REMOVAL**

- 1. Remove back door finisher inner. Refer to INT-38, "Exploded View".
- 2. Remove finisher.
- Remove rear view camera screws, disconnect rear view camera connector and remove rear view camera from back door assembly.

#### **INSTALLATION**

Install in the reverse order of removal.

Adjustment INFOID:000000005528656

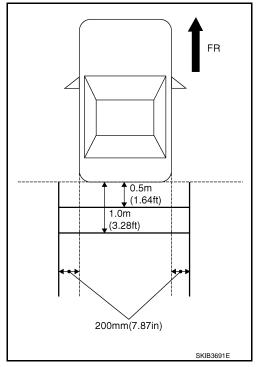
Adjust the guide line position if the guide line position is shifted after installing the rear view camera.

## **REAR VIEW CAMERA**

### < REMOVAL AND INSTALLATION >

#### [BOSE AUDIO WITHOUT NAVIGATION]

- 1. Draw lines on rearward area of the vehicle passing through the following points: 200 mm (7.87 in) from both sides of the vehicle, and 0.5 m (1.64 ft), 1.0 m (3.28 ft) from the rear end of the bumper.
- Set into "Adjust offset of rear view camera" mode of Confirmation / Adjustment mode.

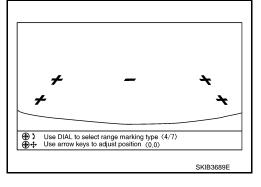


3. Rotate the center dial, and then select the guiding line pattern so that its angle is aligned with the correction line of the rear of the vehicle.

# 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 "OK" switch and record the adjusted guiding line position to the camera control unit.

> Up/Down adjustment range : −20 − 20 Left/Right adjustment range : −20 − 20



#### CALITION:

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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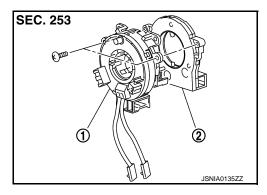
# STEERING ANGLE SENSOR

**Exploded View** INFOID:0000000005528657

**REMOVAL** 

Refer to SR-14. "Exploded View" (for USA and Canada) or SR-40. "Exploded View" (for Mexico).

**DISASSEMBLY** 



- Spiral cable
- Steering angle sensor

# Removal and Installation

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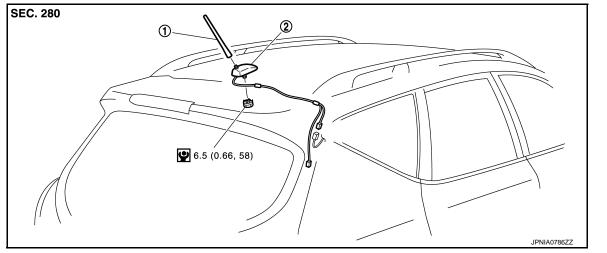
#### **REMOVAL**

- 1. Remove spiral cable.
- Remove steering angle sensor from spiral cable.

#### **INSTALLATION**

# **ROOF ANTENNA**

# **Exploded View**



1. Rod antenna

2. Antenna bade & satellite radio antenna

Refer to GI-4, "Components" for symbols in the figure.

### Removal and Installation

**REMOVAL** 

- 1. Remove headlining assembly (rear) to secure work space between vehicle and headlining. Refer to <a href="INT-26">INT-26</a>, "NORMAL ROOF: Exploded View" [without sunroof] or <a href="INT-30">INT-30</a>, "SUNROOF: Exploded View" [with sunroof].
- Disconnect AM/FM main connector and satellite radio antenna connector.
- 3. Remove antenna base & satellite radio nut, and then remove antenna base &satellite radio antenna from roof panel.

#### **INSTALLATION**

Install in the reverse order of removal.

Antenna base & satellite radio antenna mounting nut

#### **CAUTION:**

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

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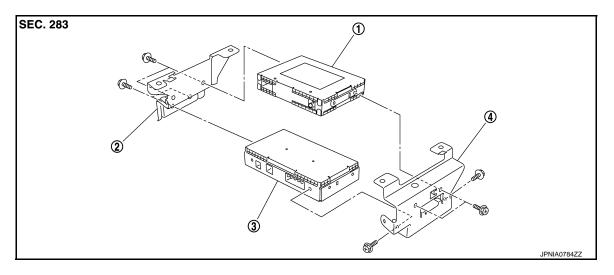
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# SATELLITE RADIO TUNER

Exploded View



- 1. Satellite radio tuner
- 2. Bracket LH

3. TEL adapter unit

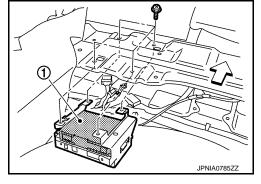
4. Bracket RH

## Removal and Installation

INFOID:0000000005528662

### **REMOVAL**

- Remove luggage floor finisher front. Refer to <u>INT-34, "Exploded View"</u>.
- 2. Remove satellite radio tuner (1) with TEL adapter unit as a single unit from the body.
- 3. Remove bracket screws, and them remove satellite tuner.

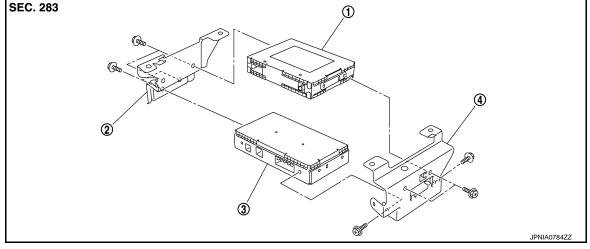


### **INSTALLATION**

# **TEL ADAPTER UNIT**

# **Exploded View**

SEC. 283



- 1. Satellite radio tuner
- 2. Bracket LH

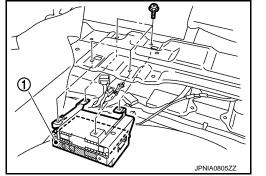
3. TEL adapter unit

4. Bracket RH

## Removal and Installation

### REMOVAL

- Remove luggage floor finisher front. Refer to <u>INT-34, "Exploded View"</u>.
- 2. Remove TEL adapter unit (1) with satellite radio tuner as a single unit from the body.
- 3. Remove bracket screws, and them remove TEL adapter unit.



### **INSTALLATION**

Install in the reverse order of removal.

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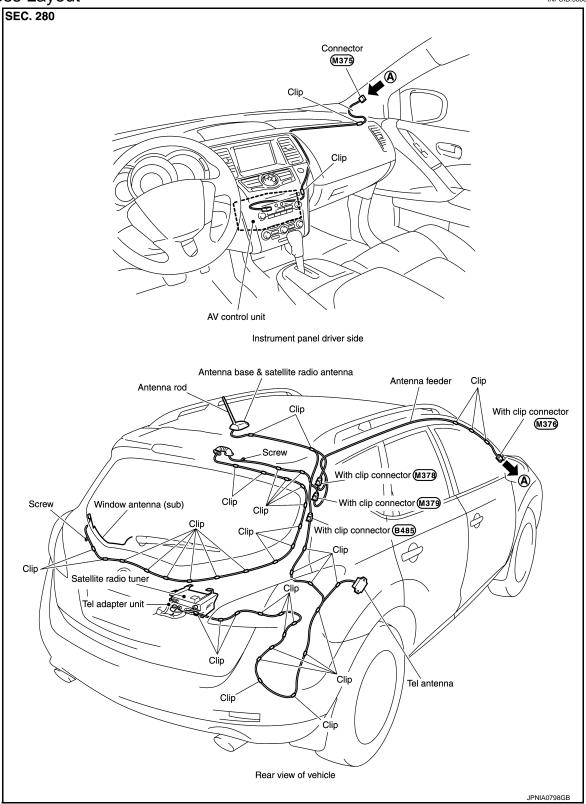
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2010 Murano

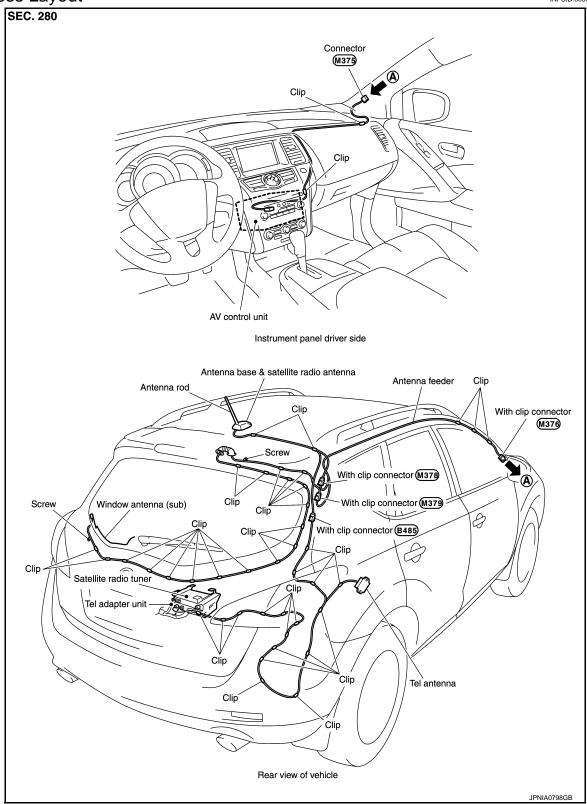
# **ANTENNA FEEDER (RADIO)**

Harness Layout



# ANTENNA FEEDER (SATELLITE RADIO)

Harness Layout



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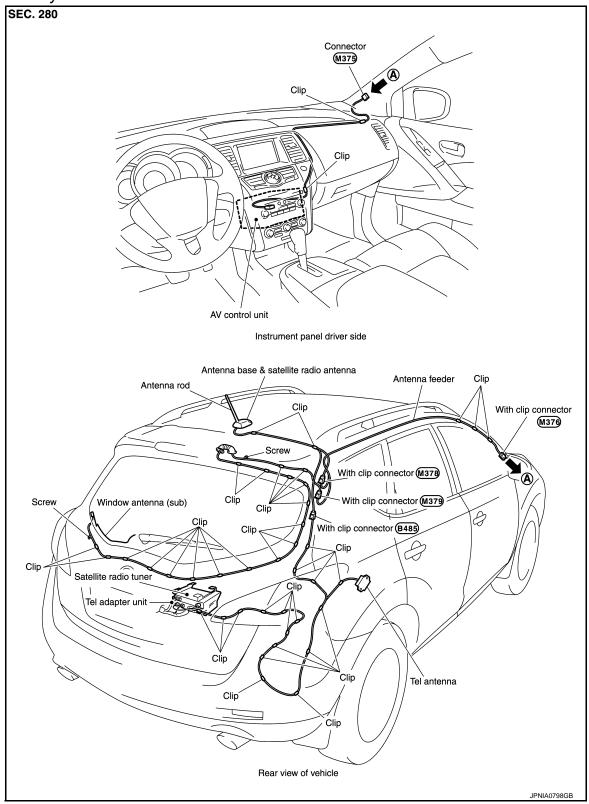
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# ANTENNA FEEDER (TEL)

Harness Layout



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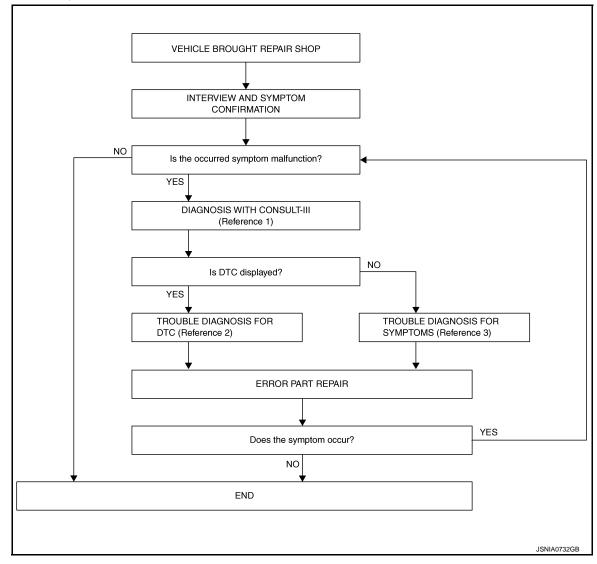
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# **BASIC INSPECTION**

# DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

#### **OVERALL SEQUENCE**



- Reference 1... Refer to AV-601, "CONSULT-III Function (MULTI AV)".
- Reference 2··· Refer to <u>AV-684</u>, "<u>DTC Index</u>".
- Reference 3··· Refer to AV-773, "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 occurring symptom a malfunction?

YES >> GO TO 2.

NO >> INSPECTION END

2.DIAGNOSIS WITH CONSULT-III

### DIAGNOSIS AND REPAIR WORK FLOW

#### < BASIC INSPECTION >

[BOSE AUDIO WITH NAVIGATION]

Connect CONSULT-III and perform a self-diagnosis for "MULTI AV". Refer to <u>AV-601, "CONSULT-III Function (MULTI AV)"</u>.

#### 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.
- Perform the relevant diagnosis referring to the DTC Index. Refer to AV-684, "DTC Index".

>> GO TO 5.

# 4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to <u>AV-773, "Symptom Table"</u>.

>> 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 >

>> END

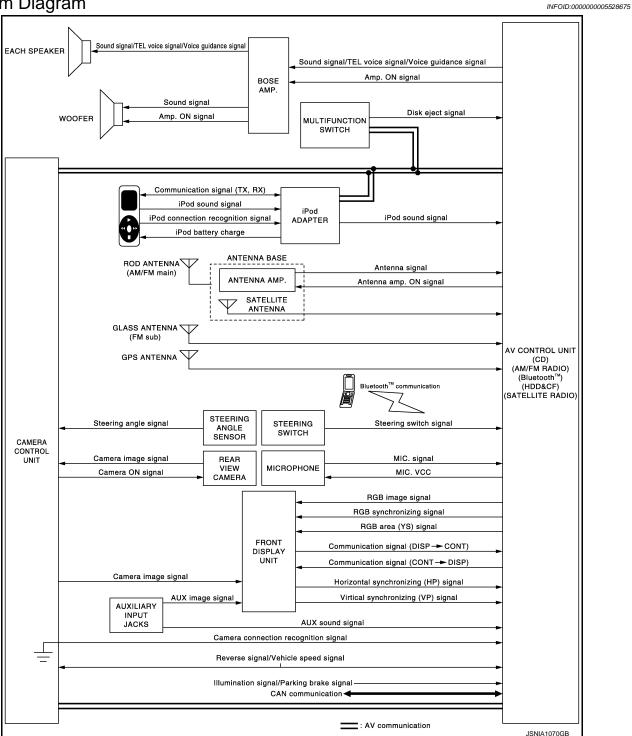
[BOSE AUDIO WITH NAVIGATION]

INSPECTION AND ADJUSTMENT	А
ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL	
ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description	В
Always correct the center position of the rear view monitor's possible route line after disconnecting the battery negative terminal.	С
ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement	D
1. CORRECTION OF CENTER POSITION OF REAR VIEW MONITOR'S POSSIBLE ROUTE LINE	
Refer to the following for details.	Е
>> Refer to AV-565, "REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUSTMENT: Special Repair Requirement".  ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT	F
ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description  NPFOID:0000000005528671	G
When camera control unit is replaced, the center position of rear view monitor possible route line is corrected.  ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement	Н
1. CORRECTION OF CENTER POSITION OF REAR VIEW MONITOR'S POSSIBLE ROUTE LINE	
Refer to the following for details.	
>> Refer to AV-565, "REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION	J
ADJUSTMENT: Special Repair Requirement". REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUST-MENT	K
REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUST- MENT: Description	L
Adjust the center position of the possible route line of the rear view monitor if it is shifted.  REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUST- MENT: Special Repair Requirement	M AV
1.steering operation	
Steer the steering wheel to the leftmost and rightmost positions.	0
>> GO TO 2 <b>2.</b> DRIVING	Р
Drive the vehicle straight ahead 100 m (328.1 ft) or more at a speed of 30 km/h (18.6 MPH) or more.	

# SYSTEM DESCRIPTION

# **MULTI AV SYSTEM**

System Diagram

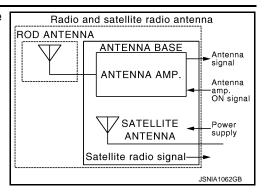


#### NOTE:

- Woofer, illustrated in the above figure, integrates two woofers and a woofer amp.
- In this section, PRESET SWITCH and MULTIFUNCTION SWITCH are written as the MULTIFUNCTION SWITCH.

#### [BOSE AUDIO WITH NAVIGATION]

 An antenna base integrated with radio antenna amp, and satellite radio antenna is adopted.



# System Description

INFOID:0000000005528676

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MULTI AV system means that the following systems are integrated.

System name	System explanation	
NAVIGATION SYSTEM	AV-572, "System Description"	
AUDIO SYSTEM	AV-580, "System Description"	
REAR VIEW MONITOR SYSTEM	AV-577, "System Description"	
HANDS-FREE PHONE SYSTEM	AV-584, "System Description"	
VEHICLE INFORMATION SYSTEM	<ul> <li>Status of audio, climate control system, fuel economy, maintenance and navigation is displayed.</li> <li>AV control unit displays the fuel consumption status while receiving data signal through CAN communication from ECM and combination meter.</li> <li>AV control unit is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> </ul>	
AUXILIARY INPUT SYSTEM	Refer to the following "AUXILIARY INPUT SYSTEM".	
VOICE RECOGNITION SYSTEM	Refer to the following "VOICE RECOGNITION SYSTEM".	
TOUCH PANEL SYSTEM	Refer to the following "TOUCH PANEL SYSTEM".	

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

#### NOTE:

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

- CONSULT-III self diagnosis: Refer to AV-601, "CONSULT-III Function (MULTI AV)".
- On board self diagnosis: Refer to <u>AV-587</u>, "<u>Diagnosis Description</u>".

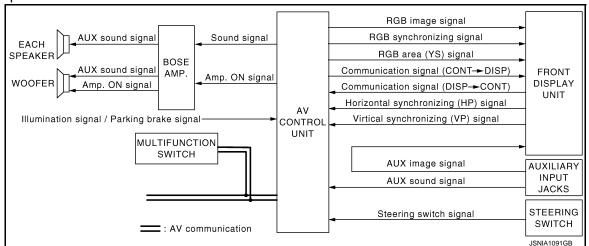
### **AUXILIARY INPUT SYSTEM**

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

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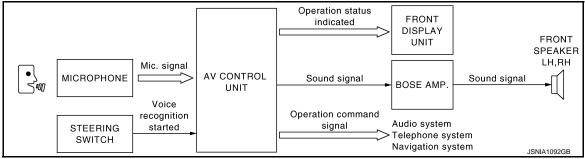
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The AUX sound signal is input from the auxiliary input jacks to the AV control unit. The AV control unit outputs the AUX sound signal to the BOSE amp. The BOSE amp. outputs the AUX sound signal to woofer and each speaker.

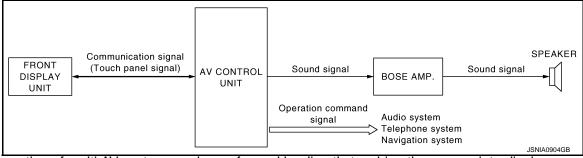


#### VOICE RECOGNITION SYSTEM

- Each operation of multi AV system can be performed by inputting sound in to a 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 the appropriate display.

# **Component Parts Location**

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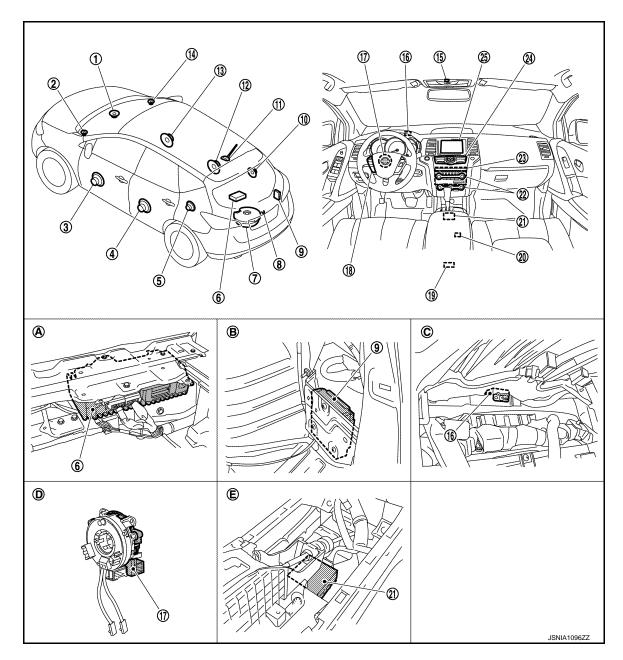
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- Center speaker
- 4. Rear door speaker LH
- Woofer 7.
- 10. Rear speaker RH
- 13. Front door speaker RH
- 16. GPS antenna
- 19. Auxiliary input jacks
- 22. Preset switch
- 25. Front display unit
- Luggage floor finisher is removed condition
- Spiral cable part

- 2. Front squawker LH
- 5. Rear speaker LH
- 8. Rear view camera
- Antenna base (antenna amp. and satellite antenna)
- 14. Front squawker RH
- 17. Steering angle sensor
- 20. iPod connector
- 23. AV control unit

В.

E.

- - 21. iPod adapter
- Luggage side finisher lower RH is removed condition Console finisher is removed condition

- Front door speaker LH
- 6. BOSE amp. 9. Camera control unit
- 12. Rear door speaker RH
- 15. Microphone
- 18. Steering switch
- 24. Multifunction switch
- Combination meter is removed condi-

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Revision: 2009 September

# [BOSE AUDIO WITH NAVIGATION]

# **Component Description**

INFOID:0000000005528678

Part name	Description
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth function.</li> </ul>
FRONT DISPLAY UNIT	<ul> <li>Front display image is controlled by the serial communication from AV control unit.</li> <li>RGB image signal is input from AV control unit (RGB, RGB area and RGB synchronizing). Auxiliary image signal is input from the auxiliary input jack. Camera image signal is input from camera control unit.</li> <li>Synchronize signal (HP, VP) is output to AV control unit.</li> <li>Touch panel function can be operated for each system by touching a display directly.</li> </ul>
BOSE AMP.	<ul> <li>Inputs power (amp. ON) and sound signal from AV control unit, and outputs sound signal to woofer and each speaker.</li> <li>Woofer amp. ON signal is transmitted to woofer.</li> </ul>
WOOFER	<ul> <li>Composed of two woofers and a woofer amp.</li> <li>Inputs power (amp. ON) and sound signal from BOSE amp.</li> <li>Outputs low frequency sound.</li> </ul>
FRONT DOOR SPEAKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (mid and low range).</li></ul>
REAR DOOR SPEAKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (mid and low range).</li></ul>
FRONT SQUAWKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (high and mid range).</li></ul>
REAR SPEAKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (high and mid range).</li></ul>
CENTER SPEAKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (high and mid range).</li></ul>
MULTIFUNCTION SWITCH	<ul> <li>Operation panel is equipped with the centralized switch where audio and auxiliary input operations are integrated.</li> <li>The multifunction switch is connected to the preset switch by wiring harness, and it transmits the operation signal to the preset switch.</li> </ul>
PRESET SWITCH	<ul> <li>Operation panel is equipped with the centralized switch where audio and air conditioner operations are integrated.</li> <li>The preset switch is connected via AV communication, and it transmits the operation signals of the preset switch and multifunction switch.</li> <li>The disk ejection operating signal is performed by wiring harness.</li> </ul>
STEERING SWITCH	<ul> <li>Operations for audio, hands-free phone, audio response and navigation, etc. are possible.</li> <li>Steering switch signal (operation signal) is output to AV control unit.</li> </ul>

# **MULTI AV SYSTEM**

# < SYSTEM DESCRIPTION >

# [BOSE AUDIO WITH NAVIGATION]

Part name	Description	
CAMERA CONTROL UNIT	<ul> <li>Camera image signal is input from rear view camera. Camera image signal output to front display unit.</li> <li>Power (camera ON signal) is transmitted to rear view camera.</li> <li>Controlled by AV communication transmitted from AV control unit.</li> <li>AV control unit recognizes the presence of camera system with camera connection recognition signal.</li> </ul>	
REAR VIEW CAMERA	The image of vehicle rear view is transmitted to camera control unit. It receives the power (camera ON signal) from the camera control unit and operates.	
STEERING ANGLE SENSOR	Steering signal necessary for possible route line control is transmitted to camera control unit.	
MICROPHONE	<ul> <li>Used for hands-free phone operation and voice recognition.</li> <li>Mic signal is transmitted to AV control unit.</li> <li>The power (Mic. power supply) is supplied from the AV control unit.</li> </ul>	
AUXILIARY INPUT JACKS	AUX image signal of auxiliary input is transmitted to front display, and sound signal is transmitted to AV control unit.	
GPS ANTENNA	GPS signal is received and transmitted to AV control unit.	
ANTENNA BASE	An antenna base integrated with radio antenna amp. and satellite radio antenna is adopted.  ANTENNA AMP.  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  Receives the satellite radio wave and outputs it to the AV control unit.	
iPod ADAPTER	<ul> <li>Inputs iPod sound signal from iPod[®], and outputs iPod sound signal to AV control unit.</li> <li>Receiving/transmitting of iPod[®] operation signals are performed as follows:</li> <li>between AV control unit and iPod adapter: AV communication.</li> <li>between iPod[®] and iPod adapter: serial communication.</li> </ul>	

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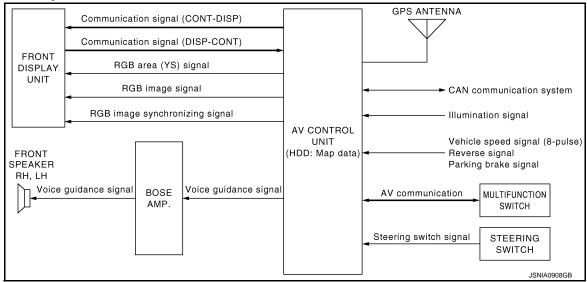
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# NAVIGATION SYSTEM

# System Diagram

INFOID:0000000005528679



# System Description

INFOID:0000000005528680

#### DESCRIPTION

- The AV control unit controls navigation function while GPS tuner has built-in map data, GYRO (angle speed sensor), on the HDD (Hard Disk Drive).
- The AV control unit inputs operation signal with communication signal, through display (touch panel) and multifunction switch and steering switch.
- Guide sound is output to front speaker through BOSE amp. from AV control unit when operating navigation system.
- A vehicle position is calculated with the GYRO (angle speed sensor), vehicle sensor, signal from GPS satellite and map data stored on HDD (Hard Disk Drive), and transmits the map image signal (RGB image, RGB area, RGB image synchronizing) to the front display unit.

#### POSITION DETECTION PRINCIPLE

The navigation system periodically calculates the current vehicle position according to the following three types of signals.

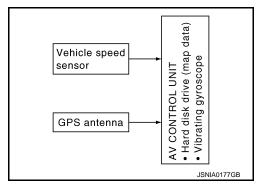
- Travel distance of the vehicle as determined by the vehicle speed sensor
- Vehicle turning angle determined by the gyroscope (angular speed sensor)
- The travel direction of the vehicle determined by the GPS antenna (GPS information)

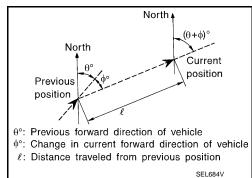
The current position of the vehicle is then identified by comparing the calculated vehicle position with map data, which is stored in the HDD (Hard Disk Drive) (map-matching), and indicated on the screen with a current location mark. More accurate data is used by comparing position detection results from GPS to the map-matching.

The current position is calculated by detecting the travel distance from the previous calculation point, and its direction change.

- Travel distance
  - The travel distance is generated from the vehicle speed sensor input signal. The automatic distance correction function is adopted for preventing a miss-detection of the travel distance because of tire wear etc.
- Travel direction

The gyroscope (angular velocity sensor) and GPS antenna (GPS information) generate the change of the travel direction. Both have advantages and disadvantages as per the following descriptions.



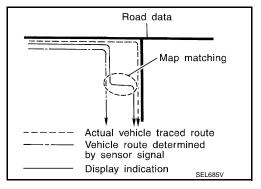


Туре	Advantage	Disadvantage
Gyroscope (angular velocity sensor)	The turning angle is precisely detected.	Errors are accumulated when driving a long distance without stopping.
GPS antenna (GPS information)	The travel direction (North/South/East/West) is detected.	The travel direction is not precisely 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

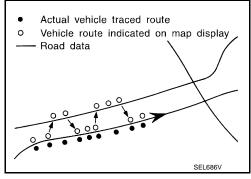
Map-matching repositions the vehicle on the road map when a new location is judged to be more accurate. This is done by comparing the current vehicle position (calculated by the normal position detection method) from the map data stored in the HDD (Hard Disk Drive).



There is a possibility that the vehicle position may not be corrected the 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.

 Map-matching detects, prepares, and prioritizes several alternative routes 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 in parallel, they are of the same priority. Therefore, the current location mark may appear on either of them alternately, depending on maneuvering of the steering wheel and configuration of the road, etc.



- Map-matching does not function correctly when the road on which the vehicle is driving is new, etc. and not recorded in the map data. In addition map-matching does not function correctly when the road pattern stored in the map data and the actual road pattern are different due to repair, etc.
- Therefore, the map-matching function detects other roads as a currently driving road if the road is not in the map, and displays the current location mark on it. Later, the current location mark may be repositioned to the road if the correct road is detected.
- Effective range for comparing the vehicle position and travel direction calculated by the distance and direction with the road data is limited. Therefore, correction by map-matching is not possible

when there is an excessive gap between the real-time vehicle position and the position on the map.

GPS (GLOBAL POSITIONING SYSTEM)

· Actual vehicle traced route Vehicle route indicated on map display -Road data --- Newly constructed road (Road data not registered)

**AV-573** Revision: 2009 September 2010 Murano

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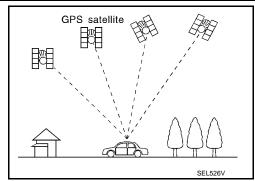
### NAVIGATION SYSTEM

### < SYSTEM DESCRIPTION >

#### [BOSE AUDIO WITH NAVIGATION]

GPS (Global Positioning System) is developed for and is controlled by the US Department of Defense. The system utilizes GPS satellites (NAVSTAR), transmitting out radio waves while flying on an orbit around the earth at an altitude of approximately 21,000 km (13,049 mile).

The receiver calculates the travel position in three dimensions (latitude/longitude/altitude) according to the time lag of the radio waves that four or more GPS satellites transmit (three-dimensional positioning). The GPS receiver calculates the travel position in two dimensions (latitude/longitude) with the previous altitude data if the GPS receiver receives only three radio waves (two-dimensional positioning). GPS position correction is not performed while the vehicle is stopped.



Accuracy of GPS will deteriorate under the following conditions:

- In two-dimensional positioning, GPS accuracy will deteriorate when altitude of the vehicle position changes.
- The position of GPS satellite affects GPS detection precision. The position detection may not be precisely performed.
- The position detection is not performed if GPS receiver does not receive radio waves from GPS satellites.
   (Inside a tunnel, parking in a building, under an elevated highway etc.) GPS receiver may not receive radio waves from GPS satellites if any object is placed on the GPS antenna.

#### NOTE:

- The detection result has an error of approximately 10 m (32.81 ft) even with a high-precision three dimensional positioning.
- There may be cases when the accuracy is lowered and radio waves are stopped intentionally because the GPS satellite signal is controlled by the US trace control center.

# **Component Parts Location**

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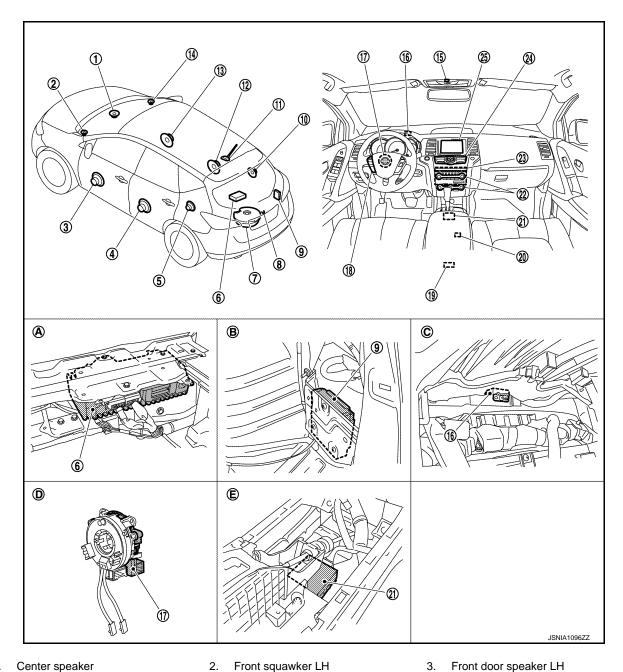
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- Center speaker
- 4. Rear door speaker LH
- Woofer 7.
- 10. Rear speaker RH
- 13. Front door speaker RH
- 16. GPS antenna
- 19. Auxiliary input jacks
- 22. Preset switch
- 25. Front display unit
- Luggage floor finisher is removed condition
- Spiral cable part

- 2. Front squawker LH
- 5. Rear speaker LH
- 8. Rear view camera
- Antenna base (antenna amp. and satellite antenna)
- 14. Front squawker RH
- 17. Steering angle sensor
- 20. iPod connector
- 23. AV control unit

- 6. BOSE amp.
- 9. Camera control unit
- 12. Rear door speaker RH
- 15. Microphone
- 18. Steering switch
- 21. iPod adapter
- 24. Multifunction switch
- Combination meter is removed condi-

Luggage side finisher lower RH is re-В. moved condition

E. Console finisher is removed condition

Revision: 2009 September

# **NAVIGATION SYSTEM**

# < SYSTEM DESCRIPTION >

# [BOSE AUDIO WITH NAVIGATION]

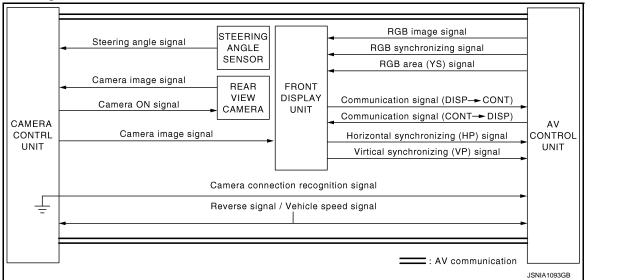
# **Component Description**

INFOID:0000000005528682

Part name	Description	
AV CONTROL UNIT	<ul> <li>It is the master unit that controls each operation of the Navigation system.</li> <li>The HDD (Hard Disk Drive) is built in, and the map data is stored in HDD.</li> <li>The RGB signal (map information) is output to the front display unit.</li> <li>The voice guidance signal is output to the BOSE amp.</li> </ul>	
FRONT DISPLAY UNIT	<ul> <li>Map image signal is input from AV control unit, and it is indicated on the display.</li> <li>Each operation of navigation can be performed by the touch panel function.</li> </ul>	
BOSE AMP.	Voice guidance signal is input from AV control unit, and it is output to front LH/RH speakers.	
FRONT DOOR SPEAKER	Voice guidance signal from BOSE amp. is output.	
FRONT SQUAWKER		
MULTIFUNCTION SWITCH	<ul> <li>Each operation of navigation can be performed.</li> <li>The multifunction switch is connected to the preset switch by wiring harness, and it transmits the operation signal to the preset switch.</li> </ul>	
PRESET SWITCH	<ul> <li>Operation panel is equipped with the centralized switch where audio and air conditioner operations are integrated.</li> <li>The preset switch is connected via AV communication, and it transmits the operation signals of the preset switch and multifunction switch.</li> <li>The disk ejection operating signal is performed by wiring harness.</li> </ul>	
STEERING SWITCH	<ul><li>Each operation of navigation, etc. can be performed.</li><li>Switch operating signal is output to AV control unit.</li></ul>	
MICROPHONE	<ul> <li>Used for hands-free phone operation and voice recognition.</li> <li>Mic signal is transmitted to AV control unit.</li> <li>Power (Mic VCC) is supplied from AV control unit.</li> </ul>	
GPS ANTENNA	GPS signal is received and is output to AV control unit.	

# **REAR VIEW MONITOR SYSTEM**

### System Diagram



# System Description

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#### CAMERA IMAGE OPERATION PRINCIPLE

- Power is supplied to rear view camera from camera control unit and outputs camera image signal to camera control unit when selector lever is set to the "R" position and the reverse signal on camera control unit is input.
- Camera control unit synthesizes guide lines and possible route lines with camera image signal from rear view camera, and transmits camera image signal to the front display unit. In this case, since the reverse signal is also input to AV control unit, the AV control unit recognizes that the selector lever is in the "R" position, and it switches communication signal between AV control unit and front display unit, and image that is displayed on the front display unit by RGB image signal with rear view monitor image. In addition, possible route lines are controlled by original sensor signal from steering angle sensor.
- The AV control unit determines whether rear view camera is equipped or not, based on the presence of camera connection recognition signal. It switches to rear view monitor image at the time of reverse signal input when it is equipped.
- · Warning message under the rear view monitor display is described by AV control unit.
- AV control unit is connected in communication with camera control unit and front display unit, and it controls
  operation of rear view monitor system.

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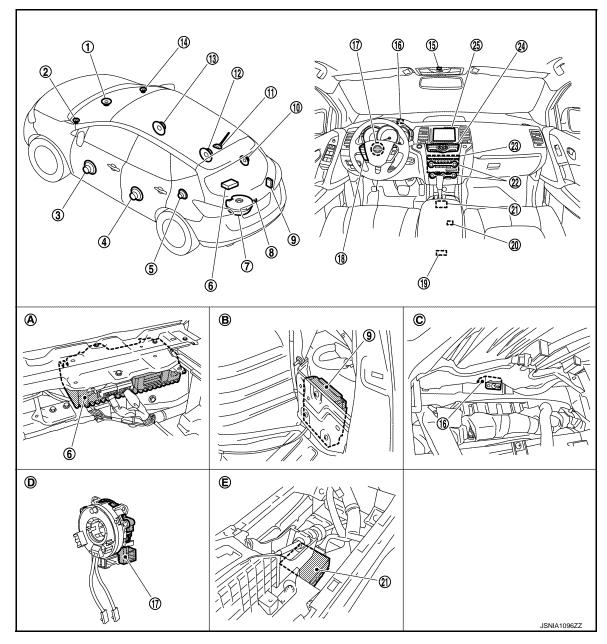
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# **Component Parts Location**

INFOID:0000000005528685



- 1. Center speaker
- 4. Rear door speaker LH
- 7. Woofer
- 10. Rear speaker RH
- 13. Front door speaker RH
- 16. GPS antenna
- 19. Auxiliary input jacks
- 22. Preset switch
- 25. Front display unit
- A. Luggage floor finisher is removed condition
- D. Spiral cable part

- 2. Front squawker LH
- 5. Rear speaker LH
- 8. Rear view camera
- 11. Antenna base (antenna amp. and satellite antenna)
- 14. Front squawker RH
- 17. Steering angle sensor
- 20. iPod connector
- 23. AV control unit

- 3. Front door speaker LH
- 6. BOSE amp.
- 9. Camera control unit
- 12. Rear door speaker RH
- 15. Microphone
- 18. Steering switch
- 21. iPod adapter
- 24. Multifunction switch
- B. Luggage side finisher lower RH is removed condition
- E. Console finisher is removed condition
- Combination meter is removed condition

### **REAR VIEW MONITOR SYSTEM**

< SYSTEM DESCRIPTION >

# [BOSE AUDIO WITH NAVIGATION]

INFOID:0000000005528686

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# **Component Description**

Part name	Description
AV CONTROL UNIT	<ul> <li>Image on display is changed to rear view monitor image with serial communication between AV control unit and front display unit.</li> <li>Warning displayed in rear view monitor image is illustrated.</li> </ul>
FRONT DISPLAY UNIT	<ul> <li>Camera image signal is transmitted from camera control unit, and RGB signal for warning display is transmitted from AV control unit.</li> <li>Rear view monitor image is changed with the communication for AV control unit.</li> </ul>
CAMERA CONTROL UNIT	<ul> <li>Camera image signal is input from rear view camera, and camera image is indicated on the front display unit.</li> <li>Power (camera ON signal) is transmitted to rear view camera.</li> <li>Controlled by AV communication transmitted from AV control unit.</li> <li>AV control unit recognizes the presence of camera system with camera connection recognition signal.</li> </ul>
REAR VIEW CAMERA	The image of vehicle rear view is transmitted to camera control unit.
STEERING ANGLE SENSOR	Steering signal necessary for possible route line control is transmitted to camera control unit.

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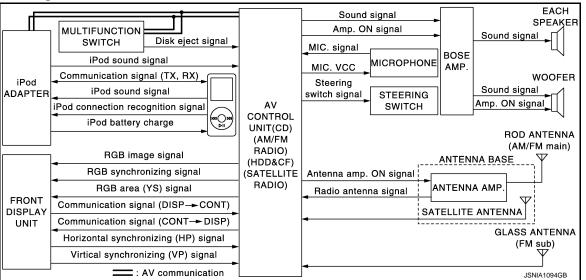
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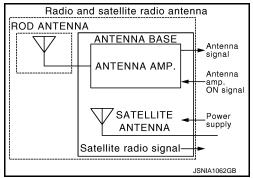
### **AUDIO SYSTEM**

### System Diagram



#### NOTE:

- Woofer, illustrated in the above figure, integrates two woofers and a woofer amp.
- The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.
- An antenna base integrated with radio antenna amp. and satellite radio antenna is adopted.



# System Description

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The audio system is equipped with the following functions. Each function is operated with multifunction switch, preset switch, touch panel, steering switch or audio recognition. Operation status of AUDIO is indicated in the display.

Function
AM/FM radio
Satellite radio
CD
Music Box (Hard Disk Drive)
CF (Compact Flash)
iPod connection
AUX mode

#### **FUNCTION DESCRIPTION**

#### Operating Signal

Audio system operation can be performed with multifunction switch, preset switch, steering switch, touch panel function or voice recognition function.

### AUDIO SYSTEM

### < SYSTEM DESCRIPTION >

### [BOSE AUDIO WITH 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 wiring harness.
- Operating signal is transmitted to AV control unit with steering switch signal when it is operated by steering switch.
- Refer to AV-567, "System Description" for explanation of voice recognition function and touch panel function.

#### Screen Front Display

- Switching of display is performed with serial communication between front display unit and AV control unit.
- The image signal to front display operating condition is performed with RGB image signal, RGB area signal and RGB synchronizing signal.

#### AM/FM Radio Mode

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

#### Satellite Radio Mode

- · Satellite radio tuner is built into AV control unit.
- Audio wave (satellite radio) is received by antenna base (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 signal 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 input iPod sound signal from iPod[®]. When iPod mode is selected, iPod adapter outputs iPod sound signal to AV control unit. AV control unit output 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 if iPod adapter receives iPod connection recognition signal.
- The iPod adapter can charge iPod[®].

#### AUX Mode

Refer to AV-567, "System Description".

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**AV-581** Revision: 2009 September 2010 Murano

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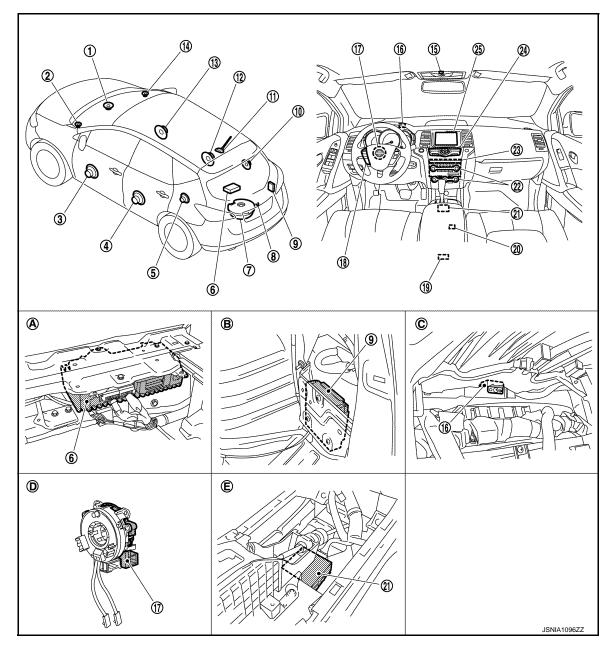
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### **Component Parts Location**

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- 1. Center speaker
- 4. Rear door speaker LH
- 7. Woofer
- 10. Rear speaker RH
- 13. Front door speaker RH
- 16. GPS antenna
- 19. Auxiliary input jacks
- 22. Preset switch
- 25. Front display unit
- A. Luggage floor finisher is removed condition
- D. Spiral cable part

- 2. Front squawker LH
- 5. Rear speaker LH
- 8. Rear view camera
- 11. Antenna base (antenna amp. and satellite antenna)
- 14. Front squawker RH
- 17. Steering angle sensor
- 20. iPod connector
- 23. AV control unit

- 3. Front door speaker LH
- 6. BOSE amp.
- 9. Camera control unit
- 12. Rear door speaker RH
- 15. Microphone
- 18. Steering switch
- 21. iPod adapter
- 24. Multifunction switch
- B. Luggage side finisher lower RH is removed condition
- E. Console finisher is removed condition
- Combination meter is removed condition

# [BOSE AUDIO WITH NAVIGATION]

# **Component Description**

INFOID:0000000005528690

2010 Murano

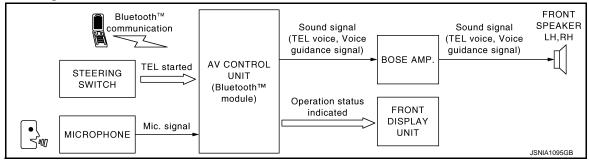
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Part name	Description
AV CONTROL UNIT	<ul> <li>Receiving function of AM/FM/satellite radio, replaying function of CD, replaying/saving function of music box (HDD), replaying function of CF and voice recognition function are integrated.</li> <li>BOSE amp. ON signal and sound signal are transmitted to BOSE amp.</li> </ul>
FRONT DISPLAY UNIT	<ul> <li>Front display image is controlled by the serial communication from AV control unit.</li> <li>RGB image signal (audio operation condition) is input from AV control unit.</li> <li>Touch panel function can be operated for each system by touching the display directly.</li> </ul>
BOSE AMP.	<ul> <li>Inputs power (amp. ON) and sound signal from AV control unit, and outputs sound signal to woofer and each speaker.</li> <li>Woofer amp. ON signal is transmitted to woofer.</li> </ul>
WOOFER	<ul> <li>Composed of two woofers and a woofer amp.</li> <li>Inputs power (amp. ON) and sound signal from BOSE amp.</li> <li>Outputs low frequency sound.</li> </ul>
FRONT DOOR SPEAKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (mid and low range).</li></ul>
REAR DOOR SPEAKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (mid and low range).</li></ul>
FRONT SQUAWKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (high and mid range).</li></ul>
REAR SPEAKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (high and mid range).</li></ul>
CENTER SPEAKER	<ul><li>Outputs sound signal from BOSE amp.</li><li>Outputs sound (high and mid range).</li></ul>
MULTIFUNCTION SWITCH	<ul> <li>Operation panel is equipped with the centralized switch where audio and auxiliary input operations are integrated.</li> <li>The multifunction switch is connected to the preset switch by wiring harness, and it transmits the operation signal to the preset switch.</li> </ul>
PRESET SWITCH	<ul> <li>Operation panel is equipped with the centralized switch where audio and air conditioner operations are integrated.</li> <li>The preset switch is connected via AV communication, and it transmits the operation signals of the preset switch and multifunction switch.</li> <li>The disk ejection operating signal is performed by wiring harness.</li> </ul>
STEERING SWITCH	<ul> <li>Operations for audio, hands-free phone, audio response and navigation, etc. are possible.</li> <li>Steering switch signal (operation signal) is output to AV control unit.</li> </ul>
MICROPHONE	<ul> <li>Used for hands-free phone operation and voice recognition.</li> <li>Mic signal is transmitted to AV control unit.</li> <li>The power (Mic. power supply) is supplied from the AV control unit.</li> </ul>
ANTENNA BASE	An antenna base integrated with radio antenna amp. and satellite radio antenna is adopted. ANTENNA AMP.  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 Receives the satellite radio wave and outputs it to the AV control unit.
iPod ADAPTER	<ul> <li>Inputs iPod sound signal from iPod[®], and outputs iPod sound signal to AV control unit.</li> <li>Receiving/transmitting of iPod[®] operation signals are performed as follows:</li> <li>between AV control unit and iPod adapter: AV communication.</li> <li>between iPod[®] and iPod adapter: serial communication.</li> </ul>

### HANDS-FREE PHONE SYSTEM

### System Diagram

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# System Description

INFOID:0000000005528692

- AV control unit includes hands-free phone function.
- Hands-free communication can be operated by connecting using Bluetooth[™] communication with cellular phone.
- Operation is performed by steering switch, and operating condition is indicated on front display.
- Guide sound that is heard during operation is input from AV control unit to BOSE amp., and is output from front speaker.

#### WHEN A CALL IS ORIGINATED

Spoken voice sound output from the microphone (MIC. signal) is input to AV control unit. AV control unit outputs to cellular phone with Bluetooth  TM  communication as a TEL voice signal. Vocal sound is then heard at the other party.

#### WHEN RECEIVING A CALL

Vocal sound is input to own cellular phone from the other party. TEL voice signal is output to front speaker, and the signal is input to BOSE amp. via AV control unit by establishing Bluetooth $^{\text{TM}}$  communication from cellular phone.

# **Component Parts Location**

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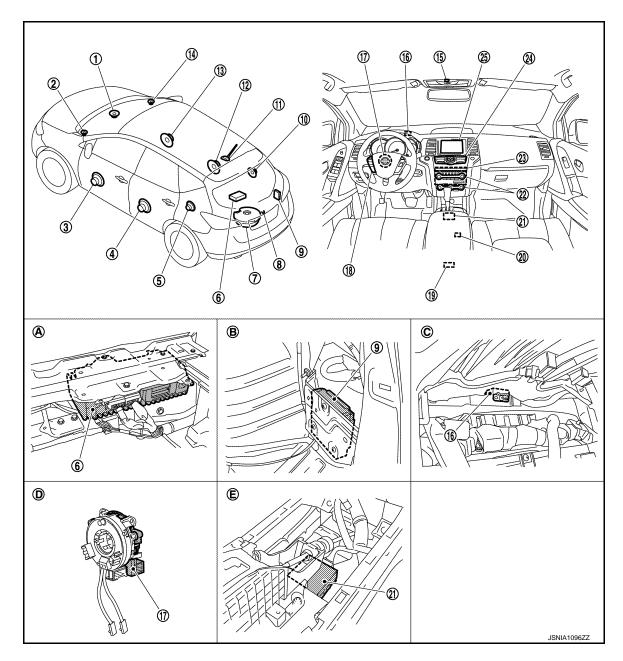
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- Center speaker
- 4. Rear door speaker LH
- 7. Woofer
- 10. Rear speaker RH
- 13. Front door speaker RH
- 16. GPS antenna
- 19. Auxiliary input jacks
- 22. Preset switch
- 25. Front display unit
- A. Luggage floor finisher is removed condition
- D. Spiral cable part

- 2. Front squawker LH
- 5. Rear speaker LH
- 8. Rear view camera
- 11. Antenna base (antenna amp. and satellite antenna)
- 14. Front squawker RH
- 17. Steering angle sensor
- 20. iPod connector
- 23. AV control unit
- B. Luggage side finisher lower RH is removed condition
- E. Console finisher is removed condition

- Front door speaker LH
- 6. BOSE amp.
- 9. Camera control unit
- 12. Rear door speaker RH
- 15. Microphone
- 18. Steering switch
- 21. iPod adapter
- 24. Multifunction switch
- C. Combination meter is removed condition

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Revision: 2009 September AV-585 2010 Murano

### HANDS-FREE PHONE SYSTEM

### < SYSTEM DESCRIPTION >

# [BOSE AUDIO WITH NAVIGATION]

# **Component Description**

INFOID:0000000005528694

Part name	Description	
AV CONTROL UNIT	<ul> <li>It includes the TEL adapter and Bluetooth[™] function.</li> <li>It outputs the TEL voice signal and voice guidance sound signal to the BOSE amp.</li> </ul>	
FRONT DISPLAY UNIT	<ul> <li>Display image is controlled by the serial communication from AV control unit.</li> <li>Inputs RGB image signal (RGB, RGB area and RGB synchronizing) from AV control unit and displays the status of hands free phone system.</li> </ul>	
BOSE AMP.	Inputs TEL voice signal or voice guidance signal from AV control unit and output it to front speaker.	
FRONT DOOR SPEAKER	Outputs the TEL voice signal or voice guidance signal from BOSE amp.	
PRESET SWITCH	<ul> <li>Adjust the sound when using TEL.</li> <li>The operation signal is transmitted to the AV control unit via AV communication.</li> </ul>	
STEERING SWITCH	<ul> <li>The hands free-phone system can be operated.</li> <li>Steering switch signal (operation signal) is output to AV control unit.</li> </ul>	
MICROPHONE	<ul> <li>Uses when operating the hands-free phone.</li> <li>Outputs Mic. signal (TEL voice signal) to the AV control unit.</li> <li>The power (Mic. power supply) is supplied from the AV control unit.</li> </ul>	

< SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

# DIAGNOSIS SYSTEM (AV CONTROL UNIT)

### Diagnosis Description

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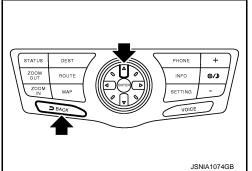
#### MULTIFUNCTION SWITCH AND PRESET SWITCH SELF-DIAGNOSIS FUNCTION

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 "To switch of the 8-direction switches within 10 seconds after turning the ignition switch from OFF to ACC and hold them for 3 seconds or more. Then the buzzer sounds, all indicators of the preset switch illuminate, and the self-diagnosis mode starts.
- The continuity of each switch at the ON position can be checked by pressing the switch. The buzzer sounds if the switch is normal. NOTE:

The disk eject switch cannot be checked.



Finishing Self-diagnosis Mode

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

#### MULTI AV SYSTEM ON BOARD DIAGNOSIS FUNCTION

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

#### ON BOARD DIAGNOSIS

### Description

- The trouble diagnosis function has a self-diagnosis mode for conducting trouble diagnosis automatically and a confirmation/adjustment mode for operating manually.
- The self-diagnosis mode performs diagnoses on the AV control unit, connections between system components as well as connections between AV control unit and GPS antenna and between AV control unit and satellite radio antenna. Then it displays the diagnosis results on the display.
- The confirmation/adjustment mode allows the technician to check, modify or adjust the vehicle signals and set values, as well as to monitor the system error records and system communication status. The checking, modifying or adjusting generally require human intervention and judgment (the system cannot automatically).

### On Board Diagnosis Item

Mode	Description	
Self-Diagnosis	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.	

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### < SYSTEM DESCRIPTION >

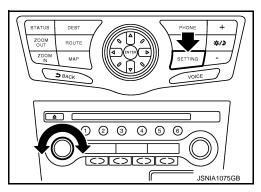
### [BOSE AUDIO WITH NAVIGATION]

Mode			Description	
	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*		Not used.	
		Steering Angle Adjustment	When there is a difference between the actual turning angle and the vehicle mark turning angle, it can be adjusted.	
	Navigation	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.	
Confirmation/ Adjustment			The system malfunction and the frequency when occurring in the past are displayed. When the malfunctioning item is selected, the time and place that the selected malfunction last occurred are displayed.	
Adjustment	Vehicle CAN Diagn	osis	The transmitting/receiving of CAN communication can be monitored.	
	AV COMM Diagnosis  Handsfree Phone  Camera Cont.  Bluetooth		The communication condition of each unit of MULTI AV system can be monitored.	
			The received volume adjustment of hands-free phone, microphone speaker check, and erase memory can be performed.	
			The signal connected to camera control unit can be checked and the guiding line position that overlaps rear view camera image can be adjusted.	
			The passkey and the device name can be checked and changed.	
	SAT	Change Channel	Any necessary channels required to receive traffic information from the satellite radio system can be set.	
		Change Application ID	Any application ID'-s required to receive traffic information from the satellite radio system can be set.	
		Diag	Not used.	
	Delete Unit Connec	tion Log	Erase the connection history of unit and error history.	
	Initialize Settings		Initializes the AV control unit memory.	

### NOTE:

### STARTING PROCEDURE

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



^{*:} On-board self-diagnosis is not supported. Only CONSULT-III is supported.

#### < SYSTEM DESCRIPTION >

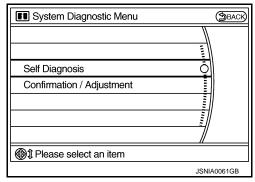
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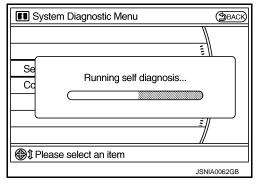
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 The trouble diagnosis initial screen is displayed, and then the items of "Self Diagnosis" and "Confirmation/Adjustment" can be selected.



#### **SELF-DIAGNOSIS MODE**

- Start the self-diagnosis function and select "Self Diagnosis".
- Self-diagnosis subdivision screen is displayed, and the selfdiagnosis 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.

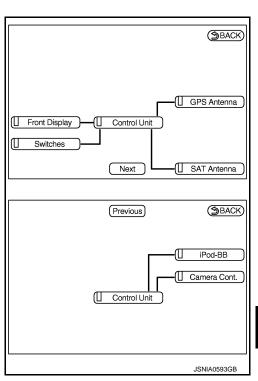
Diagnosis results	Unit	Con- nection line	
Normal	Green	Green	
<b>Connection malfunction</b>	Gray	Yellow	
Unit malfunction Note	Red	Green	

#### NOTE:

- · Only the control unit (AV control unit) is displayed in red.
- The number of units that is displayed on the on board self-diagnosis display according to equipment.
- Replace AV control unit if "Self-Diagnosis did not run because of a control unit malfunction" is indicated. The symptom is AV control unit internal error. Refer to <u>AV-787</u>, "<u>Exploded View</u>".

**AV-589** 

 If multiple errors occur at the same time for a single unit, the screen switch colors are determined according to the following order of priority: red > gray.



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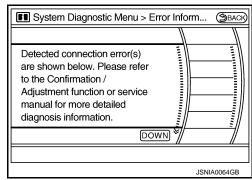
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### < SYSTEM DESCRIPTION >

#### [BOSE AUDIO WITH NAVIGATION]

- 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 the AV control unit.
- Because the start condition of diagnosis function is a switch operation, the on board diagnosis function cannot be started up if any malfunction is detected in the communication circuit between AV control unit and multifunction switch.
- Check the applicable display at the following table, and then repair the malfunctioning parts.

### Self-diagnosis Result Chart

Diagnosis results	Detection logic	Possible malfunction location / Action to take
Previous  Sat Antenna  Previous  Sat Antenna  Previous  Sat Antenna  Previous  Sat Antenna  Previous  Sat Antenna  Sat Antenna  Previous  Sat Antenna  Sat Antenna  Sat Antenna  Sat Antenna  Sat Antenna  Sat Antenna  Sat Antenna  Sat Antenna  Sat Antenna  Sat Antenna  Sat Sat Antenna  Sat Sat Antenna  Sat Sat Antenna  Sat Sat Antenna  Sat Sat Antenna  Sat Sat Sat Antenna  Sat Sat Antenna  Sat Sat Sat Sat Sat Sat Sat Sat Sat Sat	Malfunction is detected in AV control unit power supply and ground circuits.	Check AV control unit power supply and ground circuits. When detecting no malfunction in those components, replace AV control unit.

### < SYSTEM DESCRIPTION >

# [BOSE AUDIO WITH NAVIGATION]

Diagnosis results	Detection logic	Possible malfunction location / Action to take	А
Previous    Previous   Seack   Prod-BB   Prod-BB   Camera Cont.     Control Unit   Camera Cont.   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB   Prod-BB	Malfunction is detected in camera- connection recognition signal circuit.	Camera connection recognition signal circuit.	ВС
GPS Antenna  GPS Antenna  Switches  I GRAY  SAT Antenna  JSNIA0597GB	GPS antenna connection malfunction is detected.	GPS antenna.	E F G
GPS Antenna    GPS Antenna   Switches	Satellite radio antenna connection malfunction is detected.	<ul> <li>Satellite radio antenna feeder.</li> <li>Antenna base.</li> </ul>	J K

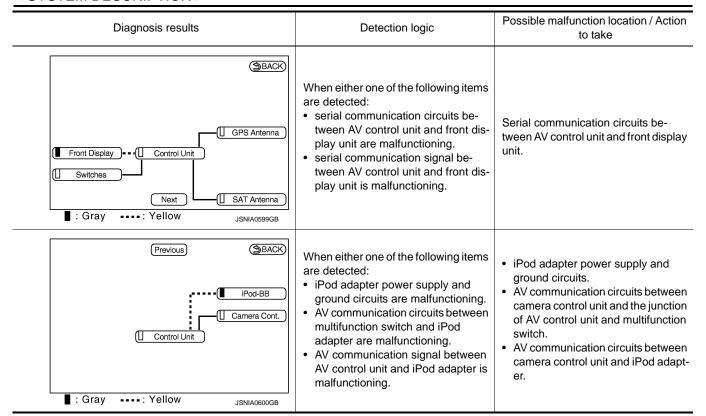
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#### [BOSE AUDIO WITH NAVIGATION]

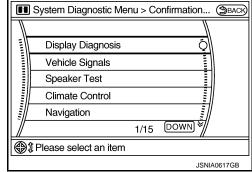


#### NOTE:

The number of units that is displayed on the on board self-diagnosis display according to equipment.

#### CONFIRMATION/ADJUSTMENT MODE

- 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.



#### < SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

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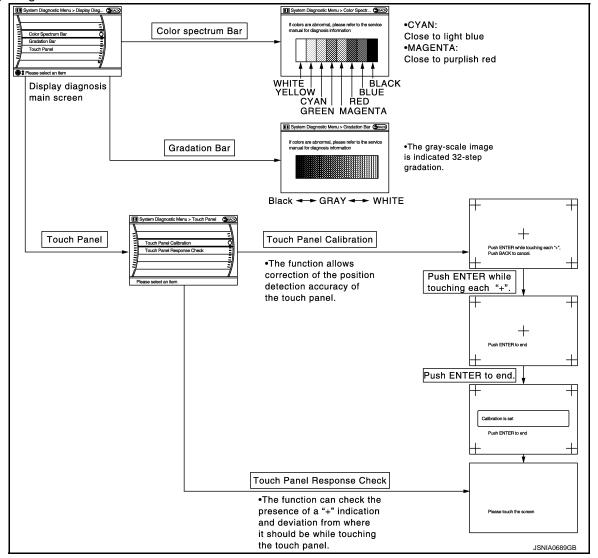
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#### Display Diagnosis



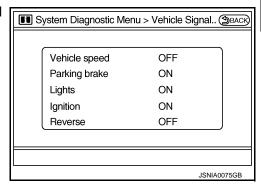
The tint of the color bar indication is as per the following list if RGB signal error is detected.

R (red) signal error : Light blue (Cyan) tint
G (green) signal error : Purple (Magenta) tint

B (blue) signal error : Yellow tint

### Vehicle Signals

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



#### < SYSTEM DESCRIPTION >

### [BOSE AUDIO WITH NAVIGATION]

Diagnosis item	Display	Vehicle status	Remarks	
Vehicle speed	ON	Vehicle speed > 0 km/h (0 MPH)		
verlicie speed	OFF	Vehicle speed = 0 km/h (0 MPH)	Changes in indication may be delayed. This is normal	
Parking brake	ON	Parking brake is applied.	Changes in indication may be delayed. This is normal	
Faiking blake	OFF	Parking brake is released.		
Links	ON	Light switch ON		
Lights	OFF	Light switch OFF	_	
Ignition	ON	Ignition switch ON		
igilidori	OFF	Ignition switch in the ACC position	1 -	
Reverse	ON	Shift the selector lever to the "R" position	Changes in indication may be delayed. This is norm	
	OFF	Shift the selector lever to a position other than the "R" position	Onanges in indication may be delayed. This is normal.	

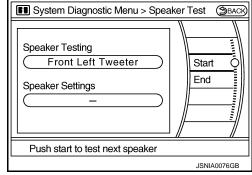
#### Speaker Test

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



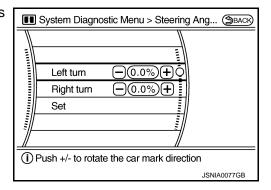
#### Climate Control

On-board self-diagnosis is not supported. Only CONSULT-III is supported. Refer to <u>HAC-161</u>, "CONSULT-III Function" [with 7 inch display].

#### Navigation

#### STEERING ANGLE ADJUSTMENT

The steering angle output value detected with the gyroscope is adjusted.

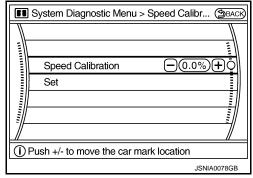


**SPEED CALIBRATION** 

#### < SYSTEM DESCRIPTION >

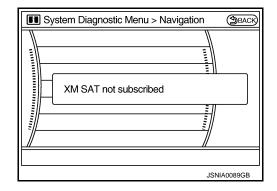
### [BOSE AUDIO WITH NAVIGATION]

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 chain 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 switch is turned ON and then no error has occurred until the self-diagnosis start. Check the "Error Record" to detect any error that may have occurred before the self-diagnosis start because of this situation.

The error record displays the time and place of the most recent occurrence of that error. However, take note of the following points.

- If there is a malfunction with the GPS antenna circuit board in the AV control unit, the correct date and time of occurrence may not be able to be displayed.
- Place of the error occurrence is represented by the position of the current location mark at the time the error occurred. If the current location mark has deviated from the correct position, then the place of the error occurrence cannot be correctly located.
- 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 switched is ON. The counter will not decrease even if the status 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 occur- rence 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		

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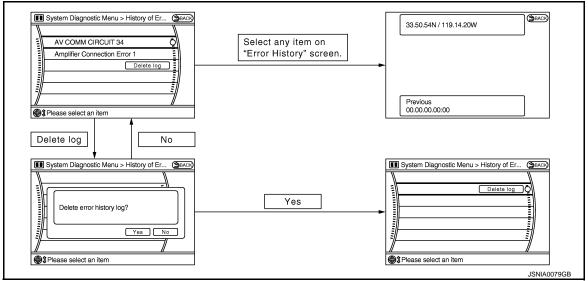
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### [BOSE AUDIO WITH NAVIGATION]



Error item

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

Error item	Description	Possible malfunction factor/Action to take
CAN COMM CIRCUIT	CAN communication malfunction is detected.	Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results.  Refer to AV-601, "CONSULT-III Function (MULTI AV)".
CONTROL UNIT (CAN)	CAN initial diagnosis malfunction is detected.	
CONTROL UNIT (AV)	AV communication circuit initial diagnosis malfunction is detected.	
FLASH-ROM Error Of Control Unit		
Connection Of Gyro		
XM SERIAL COMM Error		
CAN Controller Memory Error		Replace the AV control unit.
Bluetooth Module Connection Error		
HDD CONN Error	AV control unit malfunction is detected.	
HDD READ Error	Av control unit mailunction is detected.	
HDD WRITE Error		
HDD COMM Error		
HDD ACCESS Error		
DSP CONN Error		
DSP COMM Error		
Internal Communication Error	Malfunction is detected in AV control unit power supply and ground circuits.	Check AV control unit power supply and ground circuits. When detecting no malfunction in those components, replace AV control unit.
GPS Communication Error		An intermittent error caused by strong radio interference may be detected unless a symptom (GPS reception error, etc.) occurs.
GPS ROM Error		
GPS RAM Error	GPS malfunction is detected.	
GPS RTC Error		Replace the AV control unit if the malfunction occurs constantly.

# < SYSTEM DESCRIPTION >

# [BOSE AUDIO WITH NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
Front Display Connection Error	When either one of the following items are detected:  • front display unit power supply and ground circuits are malfunctioning.  • serial communication circuits between AV control unit and front display unit are malfunctioning.  • serial communication signal between AV control unit and front display unit is malfunctioning.	<ul> <li>Front display unit power supply and ground circuits.</li> <li>Serial communication circuits between AV control unit and display unit.</li> </ul>
GPS Antenna Error	GPS antenna connection malfunction is detected.	GPS antenna.
Camera Control Unit Connection Error	Malfunction is detected in camera connection recognition circuit between AV control unit and camera control unit.	Camera-connection recognition circuit between AV control unit and camera control unit.
XM Antenna Connection Error	Satellite radio antenna connection malfunction is detected.	Satellite radio antenna feeder.     Antenna base.
AV COMM CIRCUIT     Internal Communication Error	Malfunction is detected in AV control unit power supply and ground circuits.	Check AV control unit power supply and ground circuits. When detecting no malfunction in those components, replace AV control unit.
AV COMM CIRCUIT     Switches Connection Error	When either one of the following items are detected:  multifunction switch power supply and ground circuits are malfunctioning.  AV communication circuits between AV control unit and multifunction switch are malfunctioning.  AV communication signal between AV control unit and multifunction switch is malfunctioning.	Multifunction switch power supply and ground circuits.     AV communication circuits between AV control unit and multifunction switch.
AV COMM CIRCUIT     Rearview Camera Connection Error	When either one of the following items are detected:  camera control unit power supply and ground circuits are malfunctioning.  AV communication circuits between multifunction switch and camera control unit is malfunctioning.  AV communication signal between AV control unit and camera control unit is malfunctioning.	Camera control unit power supply and ground circuits. AV communication circuits between multifunction switch and camera control unit.
AV COMM CIRCUIT     iPod Connection Error	When either one of the following items are detected:  iPod adapter power supply and ground circuits are malfunctioning.  AV communication circuits between multifunction switch and iPod adapter are malfunctioning.  AV communication signal between AV control unit and iPod adapter is malfunctioning.	<ul> <li>iPod adapter power supply and ground circuits.</li> <li>AV communication circuits between multifunction switch unit and iPod adapter.</li> </ul>
<ul> <li>AV COMM CIRCUIT</li> <li>Rearview Camera Connection Error</li> <li>iPod Connection Error*</li> </ul>	Malfunction is detected in AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.	AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.

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### < SYSTEM DESCRIPTION >

### [BOSE AUDIO WITH NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
<ul> <li>AV COMM CIRCUIT</li> <li>Switches Connection Error</li> <li>Rearview Camera Connection Error</li> <li>iPod Connection Error*</li> </ul>	Malfunction is detected in AV communication circuits between AV control unit and multifunction switch.	AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.
<ul> <li>AV COMM CIRCUIT</li> <li>Internal Communication Error</li> <li>Switches Connection Error</li> <li>Rearview Camera Connection Error</li> <li>iPod Connection Error*</li> </ul>	Malfunction is detected in AV communication circuits.	Check and repair the short circuit in AV communication circuits.

#### NOTE:

#### 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 status 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

#### System Diagnostic Menu > Vehicle CAN... Status Count Signal Tx(HVAC) OK OK Rx(ECM) OK OK Rx(Cluster) OK OK Reset Rx(BCM) OK OK Rx(HVAC) OK OK Rx(USM) OK JSNIA0080GB

#### **AV COMM Diagnosis**

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

Items	Status (Current)	Counter (Past)
C Tx(ITM-PrimarySW)	OK / UNKWN	OK / 0 – 39
C Rx(PrimarySW-ITM)	OK / UNKWN	OK / 0 – 39
C Rx(STRG SW-ITM)	OK / UNKWN	OK / 0 – 39
C Rx (Audio-ITM)	OK / UNKWN	OK / 0 – 39
C Rx(Amp–ITM)	OK / UNKWN	OK / 0 – 39
C Rx(RearCamera–ITM)	OK / UNKWN	OK / 0 – 39
C Rx(XM–ITM)	OK / UNKWN	OK / 0 – 39
C Rx(iPod–ITM)	OK / UNKWN	OK / 0 – 39
C Rx(Amp–Audio)	_	_
C Rx(iPod–Audio)	OK / UNKWN	OK / 0 – 39
C Tx(Audio–ITM)	OK / UNKWN	OK / 0 – 39

#### NOTE:

• Any units with "—" displayed have no history of vehicle connection.

System Diagnos	stic ivient	J > AV C	" "
Signal	Status	Count.	
CTx(ITM-PrimarySW)	OK	OK	Reset
C Rx(PrimarySW-ITM)	OK	OK	] [ ] [ ]
C Rx(STRG SW-ITM)	OK	OK	Reset
C Rx(Audio-ITM)	OK	OK	]   Heset
C Rx(Amp-ITM)	OK	OK	] <i>[[</i> ]
C Rx(RearCamera-ITM	) OK	OK	] [
C Rx(XM-ITM)	OK	OK	]*////
			JSNIA0081GB

^{*:} Non-equipped item is not displayed.

#### < SYSTEM DESCRIPTION >

### [BOSE AUDIO WITH NAVIGATION]

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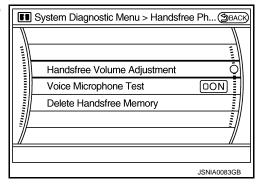
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- "Audio" and "Amp" indicate the same status because "Amp" indicates the status of the amplifier integrated in the AV control unit.
- "STRG SW", "Amp""XM" indicate the same status as "Audio".

#### Hands-Free Phone

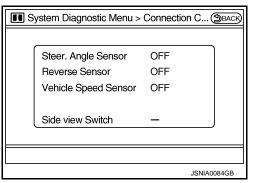
The hands-free phone reception volume adjustment, microphone and speaker test, and memory erase functions are also available.



#### Camera Cont.

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

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



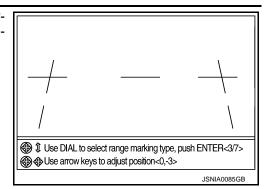
Diagnosis item	Display	Vehicle status
	ON	When steering the vehicle with ignition switch ON (remains ON until connection mode is stopped when it is turned ON)
Steer. Angle Sensor	OFF	Ignition switch at ACC     No steering with ignition switch ON
	_	Malfunction detected in camera connection recognition signal
	ON	Selector lever is in "R" with ignition switch ON.
Reverse Sensor	OFF	<ul><li>Ignition switch at ACC</li><li>Selector lever is in position other than "R" with ignition switch ON.</li></ul>
	_	Malfunction detected in camera-connection recognition signal
	ON	Vehicle speed is more than 0 km/h (0 MPH) with ignition switch ON
Vehicle Speed Sensor	OFF	<ul> <li>Ignition switch at ACC</li> <li>Vehicle speed is 0 km/h (0 MPH) with ignition switch ON</li> </ul>
	_	Malfunction detected in camera connection recognition signal
Side view Switch	_	Not used

ADJUST OFFSET OF REAR VIEW CAMERA

### < SYSTEM DESCRIPTION >

### [BOSE AUDIO WITH NAVIGATION]

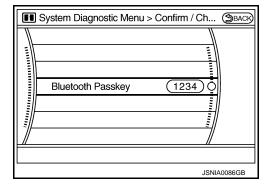
Use this mode to adjust the guide line display position of the rearview monitor if necessary after removing the rear view monitor camera.



#### Bluetooth

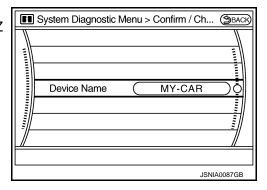
#### Confirm / Change Passkey

- The Bluetooth passkey can be confirmed and changed.
- The passkey can be changed by four digits within 0 to 9.



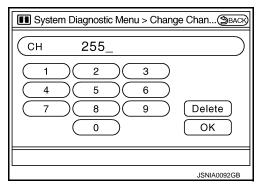
### Confirm / Change Device Name

- The Bluetooth device name be confirmed and changed.
- The device name can be changed by sixteen digits from A to Z (small characters can be used) and "-" (hyphens).



#### SAT

- Change Channel
- Any necessary channels required to receive traffic information from the satellite radio system can be set.



### < SYSTEM DESCRIPTION >

### [BOSE AUDIO WITH NAVIGATION]

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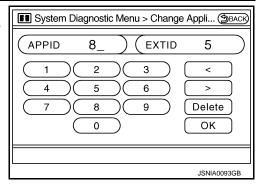
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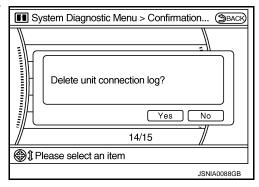
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- Change Application ID
- Any application ID'-s required to receive traffic information from the satellite radio system can be set.



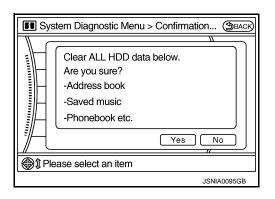
### Delete Unit Connection Log

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



Initialize Settings

Deletes data stored in HDD.



INFOID:0000000005528696

## CONSULT-III Function (MULTI AV)

#### **CONSULT-III FUNCTIONS**

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

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

#### AV COMMUNICATION

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

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

### **ECU IDENTIFICATION**

The part number of AV control unit is displayed.

### < SYSTEM DESCRIPTION >

[BOSE AUDIO WITH NAVIGATION]

### **SELF DIAGNOSIS RESULT**

- In CONSULT-III self-diagnosis, self-diagnosis results and error history are displayed collectively.
  A current malfunction indicates "crnt". a past malfunction indicates "past".
- The timing is displayed as "0" if any of the error codes [U1000], [U1010], [U1300] and [U1310] is detected. the counter increases by 1 if the status 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-605, "Diagnosis Procedure".	
CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.		
CONTROL UNIT (AV) [U1310]	AV communication circuit initial diagnosis malfunction is detected.		
Control Unit FLASH-ROM [U1200]			
Gyro NO CONN [U1201]			
CAN CONT [U1216]			
BLUETOOTH CONN [U1217]			
HDD CONN [U1218]		Replace the AV control unit.	
HDD READ [U1219]	AV		
XM SERIAL COMM [U1220]	AV control unit malfunction is detected.		
HDD WRITE [U121A]			
HDD COMM [U121B]			
HDD ACCESS [U121C]			
DSP CONN [U121D]			
DSP COMM [U121E]			
INTERNAL COMM [U121F]	Malfunction is detected in AV control unit power supply and ground circuits.	Check AV control unit power supply and ground circuits. When detecting no malfunction in those components, replace AV control unit.	
GPS COMM [U1204]		An intermittent error caused by strong radio	
GPS ROM [U1205]		interference may be detected unless a symptom (GPS reception error, etc.) occurs.	
GPS RAM [U1206]	GPS malfunction is detected.		
GPS RTC [U1207]		Replace the AV control unit if the malfunction occurs constantly.	
FRONT DISP CONN [U1243]	<ul> <li>When either one of the following items are detected:</li> <li>• front display unit power supply and ground circuits are malfunctioning.</li> <li>• serial communication circuits between AV control unit and front display unit are malfunctioning.</li> <li>• serial communication signal between AV control unit and front display unit is malfunctioning.</li> </ul>	<ul> <li>Front display unit power supply and ground circuits.</li> <li>Serial communication circuits between AV control unit and display unit.</li> </ul>	
GPS ANTENNA CONN [U1244]	GPS antenna connection malfunction is detected.	GPS antenna.	
CAMERA CONT CONN [U1250]	Malfunction is detected in camera connection recognition circuit between AV control unit and camera control unit.	Camera-connection recognition circuit between AV control unit and camera control unit.	
XM ANTENNA CONN [U1258]	Satellite radio antenna connection malfunction is detected.	Satellite radio antenna feeder.     Antenna base.	

### < SYSTEM DESCRIPTION >

### [BOSE AUDIO WITH NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
AV COMM CIRCUIT [U1300]     INTERNAL COMM [U121F]	Malfunction is detected in AV control unit power supply and ground circuits.	Check AV control unit power supply and ground circuits. When detecting no malfunction in those components, replace AV control unit.
AV COMM CIRCUIT [U1300]     SWITCH CONN [U1240]	When either one of the following items are detected:  multifunction switch power supply and ground circuits are malfunctioning.  AV communication circuits between AV control unit and multifunction switch are malfunctioning.  AV communication signal between AV control unit and multifunction switch is malfunctioning.	<ul> <li>Multifunction switch power supply and ground circuits.</li> <li>AV communication circuits between AV control unit and multifunction switch.</li> </ul>
AV COMM CIRCUIT [U1300]     REAR CAMERA LAN CONN [U1252]	<ul> <li>When either one of the following items are detected:</li> <li>camera control unit power supply and ground circuits are malfunctioning.</li> <li>AV communication circuits between multifunction switch and camera control unit is malfunctioning.</li> <li>AV communication signal between AV control unit and camera control unit is malfunctioning.</li> </ul>	<ul> <li>Camera control unit power supply and ground circuits.</li> <li>AV communication circuits between multifunction switch and camera control unit.</li> </ul>
AV COMM CIRCUIT [U1300]     IPod CONN [U1254]	When either one of the following items are detected:  iPod adapter power supply and ground circuits are malfunctioning.  AV communication circuits between multifunction switch and iPod adapter are malfunctioning.  AV communication signal between AV control unit and iPod adapter is malfunctioning.	<ul> <li>iPod adapter power supply and ground circuits.</li> <li>AV communication circuits between multifunction switch unit and iPod adapter.</li> </ul>
<ul> <li>AV COMM CIRCUIT [U1300]</li> <li>REAR CAMERA LAN CONN [U1252]</li> <li>IPod CONN [U1254]*</li> </ul>	Malfunction is detected in AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.	AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.
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 multifunction switch.	AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.
<ul> <li>AV COMM CIRCUIT [U1300]</li> <li>INTERNAL COMM [U121F]</li> <li>SWITCH CONN [U1240]</li> <li>REAR CAMERA LAN CONN [U1252]</li> <li>IPod CONN [U1254]*</li> </ul>	Malfunction is detected in AV communication circuits.	Check and repair the short circuit in AV communication circuits.

#### NOTE:

### DATA MONITOR

#### All Signals

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

**AV-603** Revision: 2009 September 2010 Murano

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^{*:} Non-equipped item is not displayed.

### < SYSTEM DESCRIPTION >

### [BOSE AUDIO WITH NAVIGATION]

Display Item	Display	Vehicle status	Remarks
\#\Q\ QBB Q\Q	On	Vehicle speed >0 km/h (0 MPH)	
VHCL SPD SIG	Off	Vehicle speed =0 km/h (0 MPH)	Changes in indication may be delayed. This is
DIVD CIO	On	Parking brake is applied.	normal.
PKB SIG	Off	Parking brake is released.	
	On	Block the light beam from the auto light optical sensor when the light SW is ON.	
ILLUM SIG	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	
	On	Selector lever in the "R" position	Changes in indication may be deleved. This is
REV SIG	Off	Selector lever in any position other than the "R" position	Changes in indication may be delayed. This is normal.

### 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	
PKB SIG	
ILLUM SIG	The same as when "ALL SIGNALS" is selected.
IGN SIG	
REV SIG	

### **U1000 CAN COMM CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

# DTC/CIRCUIT DIAGNOSIS

### U1000 CAN COMM CIRCUIT

**Description** 

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 Communication Signal Chart".

DTC Logic

#### DTC DETECTION LOGIC

DTC	Display contents of CON- SULT-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

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-17, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI section. Refer to GI-39. "Intermittent Incident".

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# **U1010 CONTROL UNIT (CAN)**

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

# U1010 CONTROL UNIT (CAN)

Description INFOID:0000000005528700

Initial diagnosis of AV control unit.

DTC Logic

### DTC DETECTION LOGIC

DTC	Display contents of CON- SULT-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:0000000005528702

# 1. REPLACE AV CONTROL UNIT

When DTC U1010 is detected, replace AV control unit.

>> INSPECTION END

# U1310 AV CONTROL UNIT

Description INFOID:0000000005528703

Replace the AV control unit if this DTC is displayed. Refer to AV-787, "Exploded View".

Part name	Description	
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth function.</li> </ul>	

DTC Logic (INFOID:0000000005528704

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

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# **U1200 AV CONTROL UNIT**

Description INFOID:0000000005528705

Replace the AV control unit if this DTC is displayed. Refer to AV-787, "Exploded View".

Part name	Description	
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth function.</li> </ul>	

DTC Logic

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.

### [BOSE AUDIO WITH NAVIGATION]

# **U1201 AV CONTROL UNIT**

Description INFOID:0000000005528707

Replace the AV control unit if this DTC is displayed. Refer to AV-787, "Exploded View".

Part name	Description	
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth function.</li> </ul>	

DTC Logic

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1201	GYRO NO CONN [U1201]	Internal malfunction of AV control unit (gyrocompass disconnection) is detected.	Replace AV control unit.

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2010 Murano

# **U1216 AV CONTROL UNIT**

Description INFOID:0000000005528709

Replace the AV control unit if this DTC is displayed. Refer to AV-787, "Exploded View".

Part name	Description	
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth function.</li> </ul>	

DTC Logic

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

# **U1217 AV CONTROL UNIT**

Description INFOID:0000000005528711

Replace the AV control unit if this DTC is displayed. Refer to AV-787, "Exploded View".

Part name	Description	
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth function.</li> </ul>	

DTC Logic (INFOID:0000000005528712

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1217	BLUETOOTH MODULE CONN [U1217]	Internal malfunction of AV control unit (Bluetooth module connection malfunction) is detected.	Replace AV control unit.

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# **U1218 AV CONTROL UNIT**

Description INFOID:0000000005528713

Replace the AV control unit if this DTC is displayed. Refer to AV-787, "Exploded View".

Part name	Description	
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth function.</li> </ul>	

DTC Logic

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1218	HDD-CONN [U1218]	Internal malfunction of AV control unit (HDD connection malfunction) is detected.	Replace AV control unit.

# **U1219 AV CONTROL UNIT**

Description INFOID:000000005528715

Replace the AV control unit if this DTC is displayed. Refer to AV-787, "Exploded View".

Part name	Description
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth[™] function.</li> </ul>

DTC Logic (INFOID:0000000005528716

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1219	HDD-READ [U1219]	Internal malfunction of AV control unit (HDD read malfunction) is detected.	Replace AV control unit.

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## **U1220 AV CONTROL UNIT**

Description INFOID:0000000005528717

Replace the AV control unit if this DTC is displayed. Refer to AV-787, "Exploded View".

Part name	Description	
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth function.</li> </ul>	

DTC Logic

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1220	XM SERIAL COMM [U1220]	Internal malfunction of AV control unit (satellite radio tuner communication error) is detected.	Replace AV control unit.

## **U121A AV CONTROL UNIT**

Description INFOID:0000000005528719

Replace the AV control unit if this DTC is displayed. Refer to AV-787, "Exploded View".

Part name	Description	
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth function.</li> </ul>	

DTC Logic

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U121A	HDD-WRITE [U121A]	Internal malfunction of AV control unit (HDD write malfunction) is detected.	Replace AV control unit.

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## **U121B AV CONTROL UNIT**

Description INFOID:0000000005528721

Replace the AV control unit if this DTC is displayed. Refer to AV-787, "Exploded View".

Part name	Description	
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth function.</li> </ul>	

DTC Logic

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.

### [BOSE AUDIO WITH NAVIGATION]

## **U121C AV CONTROL UNIT**

Description INFOID:0000000005528723

Replace the AV control unit if this DTC is displayed. Refer to AV-787, "Exploded View".

Part name	Description
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth[™] function.</li> </ul>

DTC Logic

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U121C	HDD-ACCESS [U121C]	Internal malfunction of AV control unit (HDD access error) is detected.	Replace AV control unit.

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## **U121D AV CONTROL UNIT**

Description INFOID:0000000005528725

Replace the AV control unit if this DTC is displayed. Refer to AV-787, "Exploded View".

Part name	Description	
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth function.</li> </ul>	

DTC Logic

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.

#### [BOSE AUDIO WITH NAVIGATION]

## **U121E AV CONTROL UNIT**

Description INFOID:0000000005528727

Replace the AV control unit if this DTC is displayed. Refer to AV-787, "Exploded View".

Part name	Description
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth function.</li> </ul>

DTC Logic

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U121E	DSP COMM [U121E]	Internal malfunction of AV control unit (DSP communication error) is detected.	Replace AV control unit.

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### **U121F AV CONTROL UNIT**

Description INFOID:0000000005528729

Replace the AV control unit if this DTC is displayed. Refer to AV-787, "Exploded View".

Part name	Description
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM, A/C auto amp. and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth function.</li> </ul>

DTC Logic

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:0000000005528731

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# 1. CHECK AV CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check AV control unit power supply and ground circuit. Refer to <u>AV-631, "AV CONTROL UNIT : Diagnosis Procedure"</u>.

#### Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Repair or replace malfunctioning parts.

#### [BOSE AUDIO WITH NAVIGATION]

#### **U1204 GPS**

Description INFOID:0000000005528732

An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs. Replace the AV control unit if the malfunction occurs constantly. Refer to AV-787. "Exploded View".

Part name Description	
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth function.</li> </ul>

**DTC Logic** INFOID:0000000005528733

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.	An intermittent error caused by strong radio interference may be detected unless a symptom (GPS reception error, etc.) occurs.  Replace the AV control unit if the malfunction occurs constantly.

# Diagnosis Procedure

# 1. PERFORM THE SELF-DIAGNOSIS

- Delete the self-diagnosis results. Turn ignition switch OFF.
- Turn ignition switch ON. Perform the self-diagnosis again. 2.
- 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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**AV-621** Revision: 2009 September 2010 Murano

#### **U1205 GPS**

Description INFOID-0000000005528735

An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs. Replace the AV control unit if the malfunction occurs constantly. Refer to <a href="AV-787">AV-787</a>. <a href="Exploded View"</a>.

Part name	Description
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth function.</li> </ul>

DTC Logic

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1205	GPS ROM [U1205]	Internal malfunction of AV control unit (GPS malfunction) is detected.	An intermittent error caused by strong radio interference may be detected unless a symptom (GPS reception error, etc.) occurs.  Replace the AV control unit if the malfunction occurs constantly.

# Diagnosis Procedure

INFOID:0000000005528737

## 1.PERFORM THE SELF-DIAGNOSIS

- 1. Delete the self-diagnosis results. Turn ignition switch OFF.
- 2. Turn ignition switch ON. Perform the self-diagnosis again.
- 3. Check that the DTC is detected again.

#### Is any DTC detected?

YES >> Replace AV control unit.

NO >> The intermittent malfunction caused by strong radio interference can be detected.

#### [BOSE AUDIO WITH NAVIGATION]

#### **U1206 GPS**

Description INFOID:0000000005528738

An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs. Replace the AV control unit if the malfunction occurs constantly. Refer to AV-787. "Exploded View".

Part name	Description
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth function.</li> </ul>

**DTC Logic** INFOID:0000000005528739

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1206	GPS RAM [U1206]	Internal malfunction of AV control unit (GPS malfunction) is detected.	An intermittent error caused by strong radio interference may be detected unless a symptom (GPS reception error, etc.) occurs.  Replace the AV control unit if the malfunction occurs constantly.

# Diagnosis Procedure

# 1. PERFORM THE SELF-DIAGNOSIS

- Delete the self-diagnosis results. Turn ignition switch OFF.
- Turn ignition switch ON. Perform the self-diagnosis again. 2.
- 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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**AV-623** Revision: 2009 September 2010 Murano

#### **U1207 GPS**

Description INFOID:0000000005528741

An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs. Replace the AV control unit if the malfunction occurs constantly. Refer to <a href="AV-787">AV-787</a>. <a href="Exploded View"</a>.

Part name	Description	
AV CONTROL UNIT	<ul> <li>Integrates hard disk drive (HDD) allowing map data and music data to be stored.</li> <li>It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.</li> <li>The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions.</li> <li>It is connected to ECM and combination meter via CAN communication to obtain necessary information for the vehicle information function.</li> <li>It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.</li> <li>It inputs the illumination signals that are required for the display dimming control.</li> <li>It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).</li> <li>Update of map data is performed with the CONSULT-III and the applicable cable.</li> <li>It includes the TEL adapter and Bluetooth function.</li> </ul>	

DTC Logic

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1207	GPS RTC [U1207]	Internal malfunction of AV control unit (GPS malfunction) is detected.	An intermittent error caused by strong radio interference may be detected unless a symptom (GPS reception error, etc.) occurs.  Replace the AV control unit if the malfunction occurs constantly.

# Diagnosis Procedure

INFOID:0000000005528743

## 1.PERFORM THE SELF-DIAGNOSIS

- Delete the self-diagnosis results. Turn ignition switch OFF.
- 2. Turn ignition switch ON. Perform the self-diagnosis again.
- 3. Check that the DTC is detected again.

#### Is any DTC detected?

YES >> Replace AV control unit.

NO >> The intermittent malfunction caused by strong radio interference can be detected.

#### [BOSE AUDIO WITH NAVIGATION]

### U1243 DISPLAY UNIT

Description INFOID:0000000005528744

Part name	Description	
FRONT DISPLAY UNIT	<ul> <li>Front display image is controlled by the serial communication from AV control unit.</li> <li>RGB image signal is input from AV control unit (RGB, RGB area and RGB synchronizing). Auxiliary image signal is input from the auxiliary input jack. Camera image signal is input from camera control unit.</li> <li>Synchronize signal (HP, VP) is output to AV control unit.</li> <li>Touch panel function can be operated for each system by touching a display directly.</li> </ul>	

**DTC Logic** Е INFOID:0000000005528745

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1243	FRONT DISP CONN [U1243]	When either one of the following items are detected:  serial communication circuits between AV control unit and front display unit are malfunctioning.  serial communication signal between AV control unit and front display unit is malfunctioning.	<ul> <li>Front display unit power supply and ground circuits.</li> <li>Serial communication circuits between AV control unit and display unit.</li> </ul>

# Diagnosis Procedure

 ${\sf 1.}$  CHECK FRONT DISPLAY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check front display unit power supply and ground circuit. Refer to AV-631, "FRONT 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 front display unit connector and AV control unit connector.
- Check continuity between front display unit harness connector and AV control unit harness connector.

Front display unit		AV control unit		Continuity
Connector	Terminals	Connector Terminals		Continuity
M49	11	M146	70	Existed
10149	22	101140	71	LXISIEU

Check continuity between front display unit harness connector and ground.

Front display unit			Continuity
Connector	Terminals	Ground	Continuity
M49	11		Not existed
	22		Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

#### 3.CHECK COMMUNICATION SIGNAL

Connect front display unit connector and AV control unit connector.

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#### **U1243 DISPLAY UNIT**

- 2. Turn ignition switch ON.
- 3. Check signal between front display unit harness connector terminal and ground using an oscilloscope.

(+) Front display unit		(-)	Condition	Signal
Connector	Terminal			
M49	11	Ground	When adjusting display bright ness.	(V) 6 4 2 0  + 1ms  PKIB5039J

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

### 4. CHECK COMMUNICATION SIGNAL

Check signal between display unit harness connector and ground using an oscilloscope.

(+) Front display unit		(-)	Condition	Signal
Connector	Terminal			
M49	22	Ground	When adjusting display bright ness.	(V) 6 4 2 0 ++1ms PKIB5039J

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front display unit.

#### **U1244 GPS ANTENNA**

#### < DTC/CIRCUIT DIAGNOSIS >

#### [BOSE AUDIO WITH NAVIGATION]

### U1244 GPS ANTENNA

Description INFOID:0000000005528747

Part name	Description
GPS ANTENNA	GPS signal is received and transmitted to AV control unit.

DTC Logic

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

# 1.GPS ANTENNA CHECK

Visually check GPS antenna and antenna feeder.

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

# 2. CHECK AV CONTROL UNIT VOLTAGE

- 1. Disconnect GPS antenna connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between AV control unit terminal and ground.

(+)			) (alta a
AV control unit		(–)	Voltage (Approx.)
Connector	Terminal		,
M380	110	Ground	5.0 V

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace AV control unit.

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#### **U1250 CAMERA CONTROL UNIT**

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

## U1250 CAMERA CONTROL UNIT

**Description** 

Part name	Description
CAMERA CONTROL UNIT	<ul> <li>Camera image signal is input from rear view camera, and camera image is indicated on the display.</li> <li>Power (camera ON signal) is transmitted to rear view camera.</li> <li>Controlled by AV communication transmitted from AV control unit.</li> <li>AV control unit recognizes the presence of camera system with camera connection recognition signal.</li> </ul>

DTC Logic

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1250	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 Procedure

INFOID:0000000005528752

# 1. CHECK CAMERA-CONNECTION RECOGNITION SIGNAL CIRCUIT

- 1. Disconnect AV control unit connector and camera control unit connector.
- 2. Check continuity between AV control unit harness connector and camera control unit harness connector.

AV control unit		Camera control unit		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M145	40	B60	14	Existed	

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2. CHECK AV CONTROL UNIT VOLTAGE

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

(+)			Voltage
AV control unit		(-)	(Approx.)
Connector	Terminal	, ,	,
M145	40	Ground	5.0 V

#### Is the inspection result normal?

YES >> Replace camera control unit.

NO >> Replace AV control unit.

#### **U1258 SATELLITE RADIO ANTENNA**

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

### U1258 SATELLITE RADIO ANTENNA

Description INFOID:0000000005528753

Part name	Description
SATELLITE RADIO ANTENNA	Satellite radio waves are received and transmitted to AV control unit.

DTC Logic

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1258	XM ANTENNA CONN [U1258]	Satellite radio antenna connection malfunction is detected.	<ul><li>Satellite radio antenna feeder.</li><li>Satellite radio antenna.</li></ul>

# Diagnosis Procedure

1. SATELLITE RADIO ANTENNA CHECK

Visually check satellite radio antenna and antenna feeder.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

# 2.CHECK AV CONTROL UNIT VOLTAGE

- 1. Disconnect satellite radio antenna connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between AV control unit terminal and ground.

(+)			) (alta a
AV control unit		(-)	Voltage (Approx.)
Connector	Terminal		,
M372	108	Ground	5.0 V

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace AV control unit.

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### U1300 AV COMM CIRCUIT

Description INFOID:0000000005528756

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	AV COMM CIRCUIT [U1300]     INTERNAL COMM [U121F]	Malfunction is detected in AV control unit power supply and ground circuits.	Check AV control unit power supply and ground circuits. When detecting no malfunction in those components, replace AV control unit.
U1300 U1240	AV COMM CIRCUIT [U1300]     SWITCH CONN [U1240]	<ul> <li>When either one of the following items are detected:</li> <li>multifunction switch power supply and ground circuits are malfunctioning.</li> <li>AV communication circuits between AV control unit and multifunction switch are malfunctioning.</li> <li>AV communication signal between AV control unit and multifunction switch is malfunctioning.</li> </ul>	<ul> <li>Multifunction switch power supply and ground circuits.</li> <li>AV communication circuits between AV control unit and multifunction switch.</li> </ul>
U1300 U1252	AV COMM CIRCUIT [U1300]     REAR CAMERA LAN CONN [U1252]	<ul> <li>When either one of the following items are detected:</li> <li>camera control unit power supply and ground circuits are malfunctioning.</li> <li>AV communication circuits between multifunction and camera control unit are malfunctioning.</li> <li>AV communication signal between AV control unit and camera control unit is malfunctioning.</li> </ul>	<ul> <li>Camera control unit power supply and ground circuits.</li> <li>AV communication circuits between multifunction switch and camera control unit.</li> </ul>
U1300 U1254	AV COMM CIRCUIT [U1300]     IPod CONN [U1254]	<ul> <li>When either one of the following items are detected:</li> <li>iPod adapter power supply and ground circuits are malfunctioning.</li> <li>AV communication circuits between multifunction switch and iPod adapter are malfunctioning.</li> <li>AV communication signal between AV control unit and iPod adapter is malfunctioning.</li> </ul>	<ul> <li>iPod adapter power supply and ground circuits.</li> <li>AV communication circuits between multifunction switch unit and iPod adapter.</li> </ul>
U1300 U1252 U1254 [*]	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*	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 multifunction switch.	AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.
U1300 U121F U1240 U1252 U1254*	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.

#### NOTE:

^{*:} Non-equipped item is not displayed.

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

# POWER SUPPLY AND GROUND CIRCUIT AV CONTROL UNIT

AV CONTROL UNIT: Diagnosis Procedure

INFOID:0000000005528757

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#### 1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	35
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 the 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.)
	M144	19		
Battery power supply	M145	22	OFF	Battery voltage
		24		
ACC power supply	M144	7	ACC	Pattory voltage
	M145	25	ACC	Battery voltage
Ignition signal	M145	35	ON	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 3.

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

# 3. CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	M145	21	OFF	Existed
Ground	WITTO	23	OIT	Existed

#### Is the inspection result normal?

>> INSPECTION END YES

>> Repair harness or connector.

#### FRONT DISPLAY UNIT

### FRONT DISPLAY UNIT: Diagnosis Procedure

# 1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	35
Ignition switch ACC or ON	19

**AV-631** Revision: 2009 September 2010 Murano

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INFOID:0000000005528758

### < DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

#### Is the inspection result normal?

YES >> GO TO 2.

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

# 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between display unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	M49	2	OFF	Battery voltage
ACC power supply	10149	3	ACC	Dattery voltage

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between Display unit and fuse.

# 3. CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	M49	1	OFF	Existed
Ground	IVITO	13		LAISIEU

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

#### MULTIFUNCTION SWITCH

# MULTIFUNCTION SWITCH: Diagnosis Procedure

INFOID:0000000005528759

# 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 the 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	M125	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	M125	1	OFF	Existed

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

CAMERA CONTROL UNIT

## CAMERA CONTROL UNIT: Diagnosis Procedure

INFOID:0000000005528760

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1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	35
Ignition switch ACC or ON	19

#### Is the inspection result normal?

YES >> GO TO 2.

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

#### 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between camera control unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	Pen	32	OFF	Battery voltage
ACC power supply	B60	30	ACC	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 3.

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

# 3.CHECK GROUND CIRCUIT

- Turn ignition switch OFF.
- 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	B60	31	OFF	Existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

BOSE AMP.

INFOID:0000000005528761

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# **BOSE AMP.**: Diagnosis Procedure

## 1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	23, 24

#### Is the inspection result normal?

YES >> GO TO 2.

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

### 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between BOSE amp. harness connector and ground.

#### < DTC/CIRCUIT DIAGNOSIS >

#### [BOSE AUDIO WITH NAVIGATION]

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	B224	10	OFF	Battery voltage
	5224	11	OII	Dationy 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	B224	7	OFF	Existed
Ground	5224	12	OII	LAISIEU

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

WOOFER

# WOOFER: Diagnosis Procedure

INFOID:0000000005528762

## 1. CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	25

#### Is the inspection result normal?

YES >> GO TO 2.

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

# 2. CHECK POWER SUPPLY CIRCUIT

Check voltage between woofer amp. harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	B28	6	OFF	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between woofer amp. and fuse.

# 3.CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B28	5	OFF	Existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

#### iPod ADAPTER

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

# iPod ADAPTER : Diagnosis Procedure

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# 1. CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	35
Ignition switch ACC or ON	19

#### Is the inspection result normal?

YES >> GO TO 2.

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

# 2. CHECK POWER SUPPLY CIRCUIT

Check voltage between iPod adapter harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	M148	5	OFF	Pattory voltage
ACC power supply	IVI 140	3	ACC	Battery voltage

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Check harness between iPod adapter and fuse.

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# RGB (R: RED) SIGNAL CIRCUIT (AV CONTROL UNIT TO FRONT DISPLAY UNIT)

#### < DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

# RGB (R: RED) SIGNAL CIRCUIT (AV CONTROL UNIT TO FRONT DISPLAY UNIT)

Description INFOID:000000005528764

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

### Diagnosis Procedure

INFOID:0000000005528765

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

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

Front display unit		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M49	17	M146	61	Existed

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

Front display unit			Continuity
Connector	Terminal	Ground	Continuity
M49	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 front display unit connector and AV control unit connector.
- 2. Turn ignition switch ON.
- 3. Check signal between front display unit harness connector and ground using an oscilloscope.

	+) splay unit	(–)	Condition	Signal
Connector	Terminal	. ,		, and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second
M49	17	Ground	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	(V) 0.8 0.4 0 → 40μs JSNIA1029ZZ

#### Is the inspection result normal?

YES >> Replace front display unit.

NO >> Replace AV control unit.

# RGB (G: GREEN) SIGNAL CIRCUIT (AV CONTROL UNIT TO FRONT DISPLAY UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

# RGB (G: GREEN) SIGNAL CIRCUIT (AV CONTROL UNIT TO FRONT DISPLAY UNIT)

Description INFOID:000000005528766

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

### Diagnosis Procedure

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

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

Front dis	splay unit	AV control unit		Continuity
Connector	Terminal	Connector Terminal		Continuity
M49	6	M146	62	Existed

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

Front display unit			Continuity
Connector	Terminal	Ground	Continuity
M49	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 front display unit connector and AV control unit connector.
- Turn ignition switch ON.
- 3. Check signal between front display unit harness connector and ground using an oscilloscope.

	+)	( )	0 100	0: 1
Front dis	splay unit	(-)	Condition	Signal
Connector	Terminal			
M49	6	Ground	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	(V) 0.8 0.4 0 + 40μs JSNIA1030ZZ

#### Is the inspection result normal?

YES >> Replace front display unit.

NO >> Replace AV control unit.

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# RGB (B: BLUE) SIGNAL CIRCUIT (AV CONTROL UNIT TO FRONT DISPLAY UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

# RGB (B: BLUE) SIGNAL CIRCUIT (AV CONTROL UNIT TO FRONT DIS-PLAY UNIT)

**Description** 

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

### Diagnosis Procedure

INFOID:0000000005528769

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

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

Front dis	Front display unit		trol unit	Continuity
Connector	Terminal	Connector Terminal		Continuity
M49	18	M146	63	Existed

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

Front dis	splay unit		Continuity
Connector	Terminal	Ground	Continuity
M49	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 front display unit connector and AV control unit connector.
- Turn ignition switch ON.
- 3. Check signal between front display unit harness connector and ground using an oscilloscope.

-	+) splay unit	(-)	Condition	Signal
Connector	Terminal			
M49	18	Ground	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	(V) 0.8 0.4 0 → 40µs JSNIA1031ZZ

#### Is the inspection result normal?

YES >> Replace front display unit.

NO >> Replace AV control unit.

#### **RGB SYNCHRONIZING SIGNAL CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

### RGB SYNCHRONIZING SIGNAL CIRCUIT

Description

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

## Diagnosis Procedure

#### INFOID:0000000005528771

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# 1. CHECK CONTINUITY RGB SYNCHRONIZING SIGNAL CIRCUIT

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

Front dis	Front display unit		trol unit	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M49	19	M146	65	Existed

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

Front display unit			Continuity
Connector	Terminal	Ground	Continuity
M49	19		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2.CHECK RGB SYNCHRONIZING SIGNAL

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

(+) Front display unit		(-)	Condition	Signal	
Connector	Terminal				
M49	19	Ground	<del>_</del>	(V) 0.4 0 	

#### Is the inspection result normal?

YES >> Replace front display unit.

NO >> Replace AV control unit.

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# RGB AREA (YS) SIGNAL CIRCUIT (AV CONTROL UNIT TO FRONT DISPLAY UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

# RGB AREA (YS) SIGNAL CIRCUIT (AV CONTROL UNIT TO FRONT DIS-PLAY UNIT)

Description

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

### Diagnosis Procedure

INFOID:0000000005528773

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

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

Front display unit		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M49	9	M146	67	Existed

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

Front display unit			Continuity
Connector	Terminal	Ground	Continuity
M49	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 front display unit connector and AV control unit connector.
- 2. Turn ignition switch ON.
- 3. Check signal between front display unit harness connector and ground using an oscilloscope.

(+) Front display unit		(–)	Condition	Signal	
Connector	Terminal				
			When RGB image is displayed.	Approx. 5.0 V	
M49	9	Ground	When AUX image is displayed.	(V) 6 4 2 0 → • 200 μ s PKIB4948J	

#### Is the inspection result normal?

YES >> Replace front display unit.

NO >> Replace AV control unit.

#### HP SIGNAL CIRCUIT (FRONT DISPLAY UNIT TO AV CONTROL UNIT) [BOSE AUDIO WITH NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

# HP SIGNAL CIRCUIT (FRONT DISPLAY UNIT TO AV CONTROL UNIT)

Description INFOID:0000000005528774

In composite image (AUX image, camera image), transmit the vertical synchronizing (VP) signal and horizontal synchronizing (HP) signal from front 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

# 1.check continuity horizontal synchronizing (hp) signal circuit

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

Front display unit		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M49	8	M146	68	Existed

Check continuity between front display unit harness connector and ground.

Front display unit			Continuity
Connector	Terminal	Ground	Continuity
M49	8		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2.CHECK HORIZONTAL SYNCHRONIZING (HP) SIGNAL

- Connect front display unit connector and AV control unit connector.
- Turn ignition switch ON.
- Check signal between front display unit harness connector and ground using an oscilloscope.

(+) Front display unit		(-)	Condition	Signal	
Connector	Terminal				
M49	8	Ground	_	(V) 4 0 → 20 µs SKIB3603E	

#### Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace front display unit.

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#### **VP SIGNAL CIRCUIT (FRONT DISPLAY UNIT TO AV CONTROL UNIT)** [BOSE AUDIO WITH NAVIGATION]

< DTC/CIRCUIT DIAGNOSIS >

# VP SIGNAL CIRCUIT (FRONT DISPLAY UNIT TO AV CONTROL UNIT)

Description INFOID:0000000005528776

In composite image (AUX image, camera image), transmit the vertical synchronizing (VP) signal and horizontal synchronizing (HP) signal from front 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:0000000005528777

# 1.check continuity vertical synchronizing (VP) signal circuit

- Turn ignition switch OFF.
- Disconnect front display unit connector and AV control unit connector.
- Check continuity between front display unit harness connector and AV control unit harness connector.

Front display unit		AV control unit		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M49	20	M146	69	Existed

Check continuity between front display unit harness connector and ground.

Front display unit			Continuity
Connector	Terminal	Ground	Continuity
M49	20		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2.CHECK VERTICAL SYNCHRONIZING (VP) SIGNAL

- Connect front display unit connector and AV control unit connector.
- Turn ignition switch ON.
- Check signal between front display unit harness connector and ground using an oscilloscope.

(+) Front display unit		(–)	Condition	Signal	
Connector	Terminal			C.g.r.d.	
M49	20	Ground	_	(V) 4 0 → 4 MS SKIB3598E	

#### Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace front display unit.

### AUX IMAGE SIGNAL CIRCUIT

Description

Transmits the image signal of external device from auxiliary input jacks to front display unit.

# Diagnosis Procedure

#### INFOID:0000000005528779

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# 1. CHECK CONTINUITY AUX IMAGE SIGNAL CIRCUIT

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

Auxiliary input jacks		Front display unit		Continuity
Connector	Terminals	Connector	Terminals	Continuity
M253	7	M49	15	Existed
IVIZOS	8	10149	5	Existed

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

Front dis	splay unit		Continuity
Connector	Terminal	Ground	Continuity
M49	15		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2. CHECK AUX IMAGE SIGNAL

- 1. Connect auxiliary input jacks connector and front display unit connector.
- 2. Turn ignition switch ON.
- 3. Check signal between AV control unit harness connector using an oscilloscope.

(	+)	(-) Front display unit			
Front dis	splay unit			Condition	Signal
Connector	Terminal	Connector	Terminal		
M49	15	M49	5	When AUX image is displayed.	(V) 0. 4 0 -0. 4 → 40μs SKIB2251J

#### Is the inspection result normal?

YES >> Replace front display unit.

NO >> Check that there is no malfunction in the external device.

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#### **DISK EJECT SIGNAL CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

### **DISK EJECT SIGNAL CIRCUIT**

Description INFOID:0000000005528780

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

## Diagnosis Procedure

#### INFOID:0000000005528781

2010 Murano

# 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 con	trol unit	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M125	14	M147	85	Existed

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

Multifunc	tion switch		Continuity
Connector	Terminal	Ground	Continuity
M125	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 terminal 85 and ground.

(+) AV control unit		(-)	Voltage (Approx.)	
Connector	Terminal		, , ,	
M147	85	Ground	5.0 V	

#### Is the inspection result normal?

YES >> Replace preset switch.

NO >> Replace AV control unit.

#### MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

#### MICROPHONE SIGNAL CIRCUIT

Description

Supply power from AV control unit to microphone. The microphone transmits the sound/voice to the AV control unit.

# Diagnosis Procedure

# 1. CHECK CONTINUITY BETWEEN AV CONTROL UNIT AND MICROPHONE CIRCUIT

- 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		Micro	phone	Continuity
Connector	Terminals	Connector	Terminals	Continuity
	26		4	
M145	27	R20	2	Existed
	28		1	

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

AV cor	ntrol unit		Continuity
Connector	Terminals	Ground	Continuity
M145	26	Ground	Not existed
W1145	28		

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2.CHECK VOLTAGE MICROPHONE VCC

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

(	+)	(	<b>–</b> )	N/ 1/
AV control unit		AV control unit		Voltage (Approx.)
Connector	Terminal	Connector	Terminal	<b>、</b> 11
M145	26	M145	27	5.0 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace AV control unit.

# 3. CHECK MICROPHONE SIGNAL

- 1. Connect microphone connector.
- Check signal between AV control unit harness connector using an oscilloscope.

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INFOID:0000000005528783

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Revision: 2009 September

### **MICROPHONE SIGNAL CIRCUIT**

# < DTC/CIRCUIT DIAGNOSIS >

### [BOSE AUDIO WITH NAVIGATION]

	+) itrol unit	(–) AV control unit		Condition	Signal
Connector	Terminal	Connector	Terminal		
M145	28	M145	27	Give a voice	(V) 2.5 2.0 1.5 1.0 0.5 0

#### Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace microphone.

# CAMERA IMAGE SIGNAL CIRCUIT (REAR VIEW CAMERA TO CAMERA CONTROL UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

# CAMERA IMAGE SIGNAL CIRCUIT (REAR VIEW CAMERA TO CAMERA CONTROL UNIT)

Description INFOID:0000000005528784

- 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 front display unit.

### Diagnosis Procedure

INFOID:0000000005528785

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# 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 d	control unit	Rear vie	w camera	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B60	6	D192	3	Existed

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

Camera o	control unit		Continuity
Connector	Terminal	Ground	Continuity
B60	6		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2. CHECK CAMERA IMAGE SIGNAL

- 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 using an oscilloscope.

(+) Camera control unit		(-)	Condition	Signal	
Connector	Terminal				
B60	6	Ground	Shift the selector lever to "R" position.	0. 4 0 -0. 4 -0. 4 -40\(\mu\)s	

#### Is the inspection result normal?

YES >> Replace camera control unit.

NO >> Replace rear view camera.

[BOSE AUDIO WITH NAVIGATION]

#### CAMERA ON SIGNAL CIRCUIT

**Description** 

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 front display unit.

#### Diagnosis Procedure

INFOID:0000000005528787

# 1. CHECK CONTINUITY CAMERA ON SIGNAL CIRCUIT

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

Camera control unit		Rear vie	w camera	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B60	8	D192	1	Existed

Check continuity between camera control unit harness connector and ground.

Camera control unit			Continuity
Connector	Terminal	Ground	Continuity
B60	8		Not existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2. CHECK VOLTAGE CAMERA ON SIGNAL

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

(+) Camera control unit		(-)	Condition	Voltage (Approx.)
Connector	Terminal			(* (* (* (* (* (* (* (* (* (* (* (* (* (
B60	8	Ground	Shift the selector lever to "R" position.	6.0 V

#### Is the inspection result normal?

YES >> Replace rear view camera.

NO >> Replace camera control unit.

# CAMERA IMAGE SIGNAL CIRCUIT (CAMERA CONTROL UNIT TO FRONT DIS-PLAY UNIT)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

# CAMERA IMAGE SIGNAL CIRCUIT (CAMERA CONTROL UNIT TO FRONT DISPLAY UNIT)

Description

- 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 front display unit.

# Diagnosis Procedure

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# 1. CHECK CONTINUITY CAMERA IMAGE SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect camera control unit connector and front display unit connector.
- Check continuity between camera control unit harness connector and front display unit harness connector.

Camera control unit		Front display unit		Continuity
Connector	Terminals	Connector Terminals		Continuity
B60	12	M49	12	Existed
Б00	11	10149	14	Existed

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

Camera o	control unit		Continuity
Connector	Terminal	Ground	Continuity
B60	12		Not existed

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2.CHECK CAMERA IMAGE SIGNAL

- Connect camera control unit connector and front display unit connector.
- 2. Turn ignition switch ON.
- Check signal between camera control unit harness connector and ground using an oscilloscope.

(+) Camera control unit		(–)	Condition	Signal
Connector	Terminal			
B60	12	Ground	Shift the selector lever to "R" position.	(V) 0. 4 0 -0. 4 -40µs SKIB2251J

### Is the inspection result normal?

YES >> Replace front display unit.

NO >> Replace camera control unit.

[BOSE AUDIO WITH NAVIGATION]

# STEERING ANGLE SENSOR SIGNAL CIRCUIT

Description INFOID:000000005528790

• 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:0000000005528791

# 1. CHECK CONTINUITY STEERING ANGLE SENSOR SIGNAL CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect camera control unit connector and steering angle sensor connector.
- 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		Continuity
	23		3	
B60	24	M30	6	Existed
	25		8	

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

Camera	control unit		Continuity
Connector	Terminals		Continuity
	23	Ground	
B60	24		Not existed
	25		

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

# 2.CHECK VOLTAGE CAMERA CONTROL UNIT

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

(	+)		Defenses value	
Camera	control unit	(–)	Reference value (Approx.)	
Connector	Terminals		( ) '	
	23			
B60	24	Ground	5.0 V	
	25			

### Is the 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

### < DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

3. Turn ignition switch ON.

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

(+)				
Camera o	control unit	(-)	Condition	Reference value
Connector	Terminals			
	23.24	Ground	Turn the steering to the right	A: Sensor signal 1 B: Sensor signal 2
B60	23, 24	23, 24 Ground -	Turn the steering to the left	(V) 4 2 0 SKIB3828E  A: Sensor signal 1
				B: Sensor signal 2
	25	Ground	Turn the steering around the neutral position	A: Sensor signal 3 B: Sensor signal 1

**AV-651** 

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering angle sensor.

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# STEERING SWITCH SIGNAL A CIRCUIT

< DTC/CIRCUIT DIAGNOSIS > [BOSE AUDIO WITH NAVIGATION]

# STEERING SWITCH SIGNAL A CIRCUIT

**Description** 

Transmits the steering switch signal to AV control unit.

# Diagnosis Procedure

INFOID:0000000005528793

# 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		Continuity
M144	6	M33	24	Existed

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

AV control unit			Continuity	
Connector	Terminal	Ground	Continuity	
M144	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.

(+)		(–)		\/ I
AV cor	trol unit	AV control unit		Voltage (Approx.)
Connector	Terminal	Connector Terminal		( ) ,
M144	6	M144	15	5.0 V

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

### 4. CHECK STEERING SWITCH

- Turn ignition switch OFF.
- Check steering switch. Refer to <u>AV-653, "Component Inspection"</u>.

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

# STEERING SWITCH SIGNAL A CIRCUIT

# < DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

INFOID:0000000005528794

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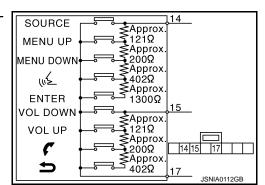
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# Component Inspection

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



#### Standard

	Stoorin	g switch			
Con- nector	Termi- nal	Con- nector	Termi- nal	Condition	Resistance $\Omega$
				ENTER switch ON	1983 – 2063
				w≨ switch ON	709 – 737
	14		3 17	MENU DOWN switch ON	315 – 327
M303	M303	MENU UP switch ON		119 – 123	
				SOURCE switch ON	0
				switch ON	709 – 737
	15			switch ON	315 – 327
	.0			VOL UP switch ON	119 – 123
				VOL DOWN switch ON	0

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# STEERING SWITCH SIGNAL B CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

# STEERING SWITCH SIGNAL B CIRCUIT

**Description** 

Transmits the steering switch signal to AV control unit.

# Diagnosis Procedure

INFOID:0000000005528796

# 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 cor	ntrol unit	Spiral cable		Continuity
Connector	Terminal	Connector Terminal		Continuity
M144	16	M33	31	Existed

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

AV control unit			Continuity	
Connector	Terminal	Ground	Continuity	
M144	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.

(	+)	(-	-)	V 16
AV cor	ntrol unit	AV con	trol unit	Voltage (Approx.)
Connector	Terminal	Connector	Terminal	(11 - )
M144	16	M144	15	5.0 V

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

### 4. CHECK STEERING SWITCH

- Turn ignition switch OFF.
- Check steering switch. Refer to <u>AV-655, "Component Inspection"</u>.

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

# STEERING SWITCH SIGNAL B CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

### [BOSE AUDIO WITH NAVIGATION]

INFOID:0000000005528797

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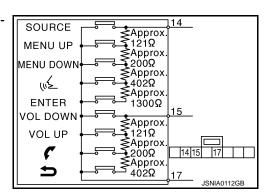
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# Component Inspection

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



#### Standard

	Steerin	g switch			Resistance	
Con- nector	Termi- nal	Con- nector	Termi- nal	Condition	Ω	
				ENTER switch ON	1983 – 2063	
				w≨ switch ON	709 – 737	
	14			MENU DOWN switch ON	315 – 327	
M303		M303	17	MENU UP switch ON	119 – 123	
				SOURCE switch ON	0	
				switch ON	709 – 737	
	15			switch ON	315 – 327	
				VOL UP switch ON	119 – 123	
				VOL DOWN switch ON	0	

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### STEERING SWITCH SIGNAL GND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

# STEERING SWITCH SIGNAL GND CIRCUIT

**Description** 

Transmits the steering switch signal to AV control unit.

# Diagnosis Procedure

INFOID:0000000005528799

# 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 cor	ntrol unit	Spira	l cable	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M144	15	M33	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 cor	ntrol unit		Continuity
Connector	Terminal	Ground	Continuity
M144	15		Existed

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

### CHECK STEERING SWITCH

- 1. Turn ignition switch OFF.
- 2. Check steering switch. Refer to AV-657, "Component Inspection".

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

# STEERING SWITCH SIGNAL GND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

### [BOSE AUDIO WITH NAVIGATION]

INFOID:0000000005528800

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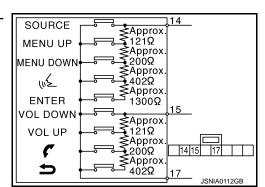
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# Component Inspection

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



#### Standard

	Steerin	g switch			Resistance	
Con- nector	Termi- nal	Con- nector	Termi- nal	Condition	Ω	
				ENTER switch ON	1983 – 2063	
				w≨ switch ON	709 – 737	
	14		17	MENU DOWN switch ON	315 – 327	
M303		M303		MENU UP switch ON	119 – 123	
				SOURCE switch ON	0	
	15			switch ON	709 – 737	
				switch ON	315 – 327	
				VOL UP switch ON	119 – 123	
				VOL DOWN switch ON	0	

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# **ECU DIAGNOSIS INFORMATION**

# AV CONTROL UNIT

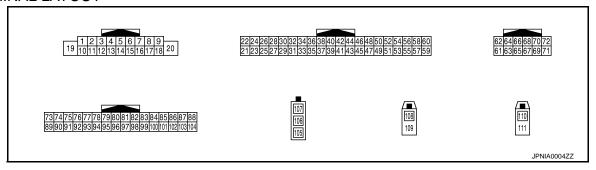
Reference Values

### VALUES ON THE DIAGNOSIS TOOL

#### CONSULT-III MONITOR ITEM

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

### **TERMINAL LAYOUT**



### PHYSICAL VALUES

	minal color)	Description		Condition		Reference value
+	_	Signal name	Input/ Output			(Approx.)
1 (P)	Ground	Amp. ON signal	Output	Ignition switch ON	_	12.0 V
2 (G)	3 (R)	Sound signal front LH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E

# [BOSE AUDIO WITH NAVIGATION]

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Terminal (Wire color)		Description			O and distant	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
4 (O)*1 (L)*2	5 (SB)*1 (R)*2	Sound signal rear LH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 ** 2ms SKIB3609E
					Keep pressing SOURCE switch.	0 V
					Keep pressing MENU UP switch.	1.0 V
6 (BR)	15 (L)	Steering switch signal A	Input	Ignition switch ON	Keep pressing MENU DOWN switch.	2.0 V
				ON	Keep pressing √ switch.	3.0 V
					Keep pressing ENTER switch.	4.0 V
					Except for above.	5.0 V
7 (R)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage
9 (R)	Ground	Illumination signal	Input	OFF	Lighting switch is OFF. Lighting switch is ON.	0 V 12.0 V
10		Shield			Eighting Switch is Oiv.	
11 (B)	12 (W)	Sound signal front RH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 → 2ms SKIB3609E
13 (V)	14 (LG)	Sound signal rear RH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 * + 2ms SKIB3609E
15 (L)	Ground	Steering switch signal GND	_	Ignition switch ON	_	0 V
					Keep pressing VOL DOWN switch.	0 V
16	15	Steering switch signal B	Input	Ignition switch	Keep pressing VOL UP switch.	1.0 V
(G)	(L)	Oceening Switch Signal D	mput	ON	Keep pressing 🗸 switch.	2.0 V
					Keep pressing <b>S</b> switch.	3.0 V
					Except for above.	5.0 V

# [BOSE AUDIO WITH NAVIGATION]

	minal e color)	Description			Condition	Reference value	
+	_	Signal name	Input/ Output		Condition	(Approx.)	
19 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage	
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 (R)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage	
26 (B)	27	Microphone VCC	Output	Ignition switch ON	_	5.0 V	
27	Ground	Shield (Microphone ground)	_	Ignition switch ON	_	0 V	
28 (W)	27	Microphone signal	Input	Ignition switch ON	Make a sound with your voice	(V) 2. 5 2. 0 1. 5 1. 0 0. 5 0	
35 (G)	Ground	Ignition signal	Input	Ignition switch ON	_	Battery voltage	
36 (G)	Ground	Parking brake signal	Input	Ignition switch ON	Parking brake ON. Parking brake OFF.	0 V 5.0 V	
37				Ignition	R position.	12.0 V	
(SB)	Ground	Reverse signal	Input	switch ON	Other than R position.	0 V	
38 (V)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is approx. 40 km/h (25MPH).	NOTE:  Maximum voltage may be 12 V due to specifications (connected units).  (V) 6 4 2 0  *** 20ms  SKIA6649J	

# < ECU DIAGNOSIS INFORMATION >

# [BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description			Condition	Reference value	
+	_	Signal name	Input/ Output	Condition		(Approx.)	
40	Ground	Camera-connection recog-	Input	Ignition switch	Connected to camera control unit connector.	0 V	
(P)	Giodila	nition signal	IIIput	ON	Not connected to camera control unit connector.	5.0 V	
42 (B)	Ground	Control signal 2	Input	Ignition switch ON	_	0 V	
43 (B)	Ground	Control signal 3	Input	Ignition switch ON	_	0 V	
48 (G)	_	AV communication signal (H)	Input/ Output	_	_	_	
49 (L)	_	AV communication signal (L)	Input/ Output	_	_	_	
50 (R)	_	AV communication signal (H)	Input/ Output	_	_	_	
51 (L)	_	AV communication signal (L)	Input/ Output	_	_	_	
52 (L)	_	CAN-H	Input/ Output	_	_	_	
53 (P)	_	CAN-L	Input/ Output	_	_	_	
61 (G)	Ground	RGB image 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.	(V) 0.8 0.4 0 → 40μs JSNIA1029ZZ	
62 (R)	Ground	RGB image 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.	(V) 0.8 0.4 0  ••40µs JSNIA1030ZZ	
63 (W)	Ground	RGB image 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.	(V) 0.8 0.4 0 → 40µs JSNIA1031ZZ	
64	_	Shield	_	_	_	— JOHN 1001ZZ	

	ninal color)	Description			Condition	Reference value	
+	_	Signal name	Input/ Output		Condition	(Approx.)	
65 (B)	Ground	RGB synchronizing signal	Output	Ignition switch ON	_	(V) 0.4 0 → 20µs JPNIA0461GB	
66	_	Shield	_	_	_	_	
					When RGB image is displayed.	5.0 V	
67 (W)	Ground	RGB area (YS) signal	Output	Ignition switch ON	When rear view camera image is displayed.	(V) 6 4 2 0 → 200 µ s PKIB4948J	
68 (B)	Ground	Horizontal synchronizing (HP) signal	Input	Ignition switch ON	_	(V) 4 0 + 20µs SKIB3601E	
69 (R)	Ground	Vertical synchronizing (VP) signal	Input	Ignition switch ON	_	(V) 4 0 + 4ms SKIB3598E	
70 (R)	Ground	Communication signal (CONT→DISP)	Output	Ignition switch ON	When adjusting display brightness.	(V) 6 4 2 0 •••1ms	
71 (G)	Ground	Communication signal (DISP→CONT)	Input	Ignition switch ON	When adjusting display brightness.	(V) 6 4 2 0 •••1ms	
72	_	Shield	_	_	_	_	

# < ECU DIAGNOSIS INFORMATION >

# [BOSE AUDIO WITH NAVIGATION]

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	minal color)	Description			0	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
79 (BR)	95 (L)	iPod sound signal LH	Input	Ignition switch ON	When iPod mode is selected.	(V) 1 0 -1 + 2ms SKIB3609E
80 (R)	96 (W)	iPod sound signal RH	Input	Ignition switch ON	When iPod mode is selected.	(V) 1 0 -1 + 2ms SKIB3609E
81	_	Shield	_	_	_	_
85	Ground	Eject signal	Input	_	Pressing the eject switch.	0 V
(W)	0.00				Except for above.	5.0 V
86	_	Shield	_		_	<del>-</del>
87 (B)	88 (W)	AUX sound signal LH	Input	Ignition switch ON	When AUX mode is selected.	(V) 1 0 -1 + 2ms SKIB3609E
102 (V)	Ground	SW ground	_	Ignition switch ON	_	0 V
103 (R)	88 (W)	AUX sound signal RH	Input	Ignition switch ON	When AUX mode is selected.	(V) 1 0 -1 → • 2ms SKIB3609E
105	_	FM sub	Input	_	_	—
106	_	AM-FM main	Input	_	_	_
107	Ground	Antenna amp. ON signal	Output	Ignition switch ON	_	12.0 V
108	Ground	Satellite antenna signal	Input	Ignition switch ON	Not connected to satellite antenna connector.	5.0 V
109		Shield	_	_	_	_
110	Ground	GPS antenna signal	Input	Ignition switch ON	Not connected to GPS antenna connector.	5.0 V
111		Shield	<u> </u>	_		_

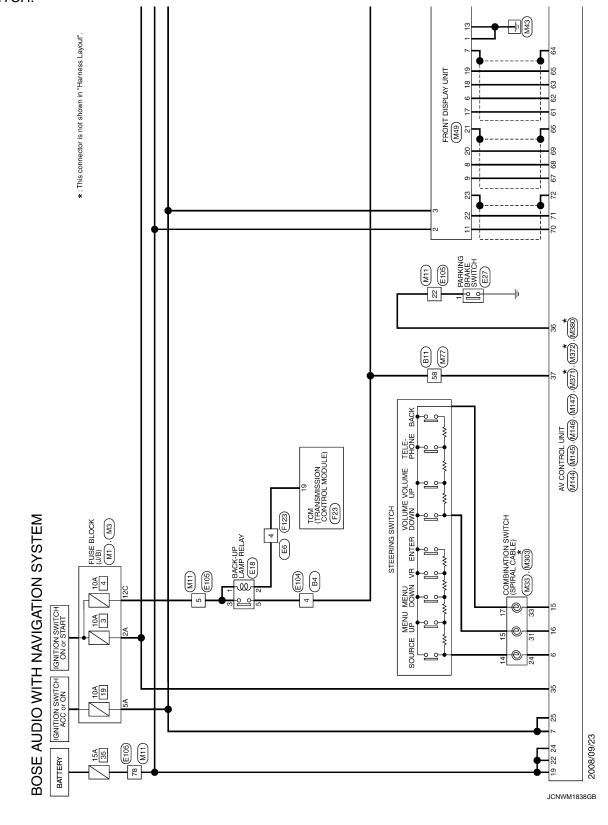
- *1: Type A
- *2: Type B

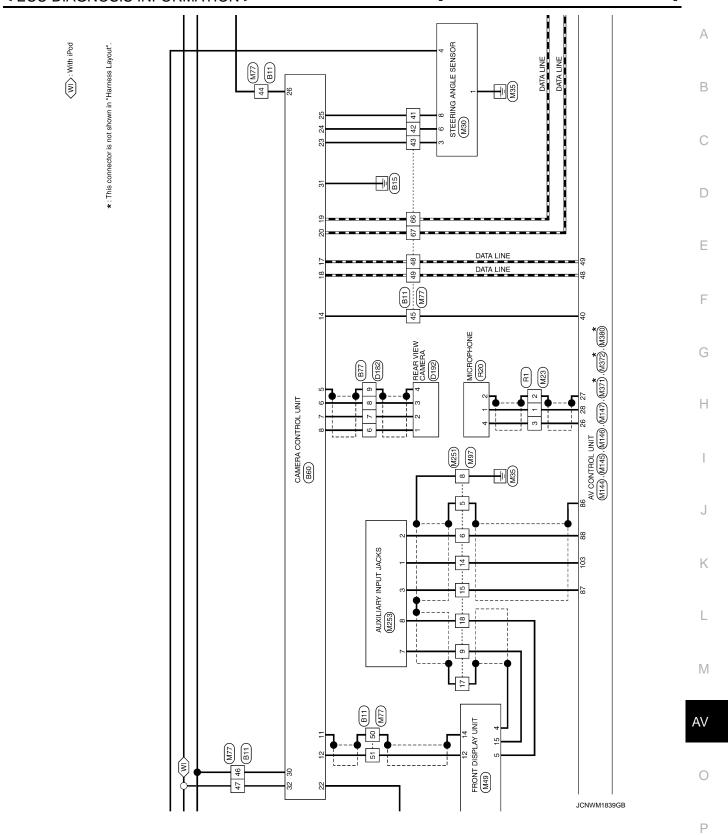
# Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM -

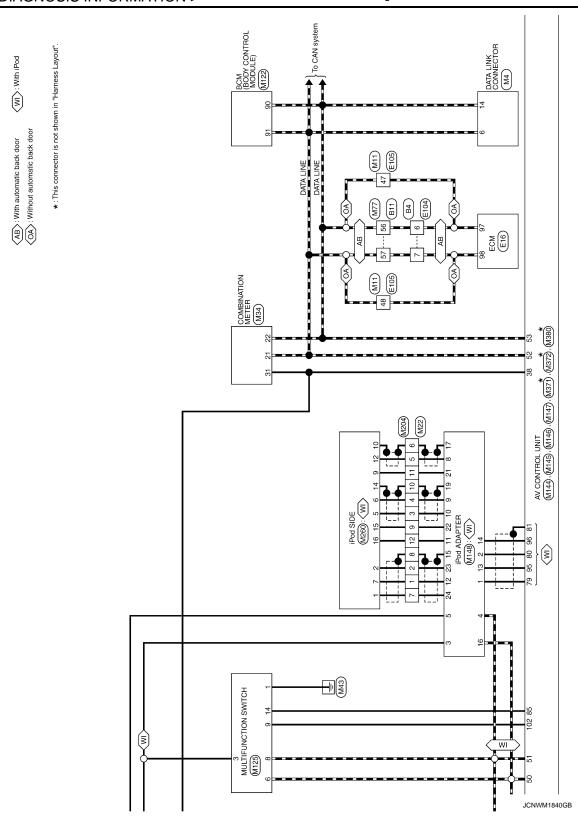
INFOID:0000000005528802

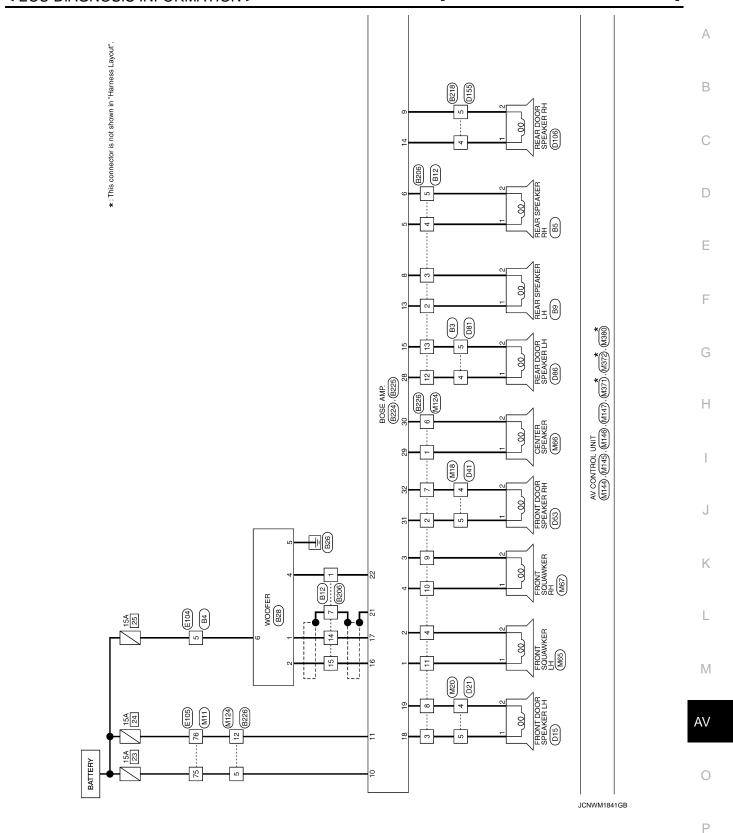
### NOTE:

In this section, PRESET SWITCH and MULTIFUNCTION SWITCH are written as the MULTIFUNCTION SWITCH

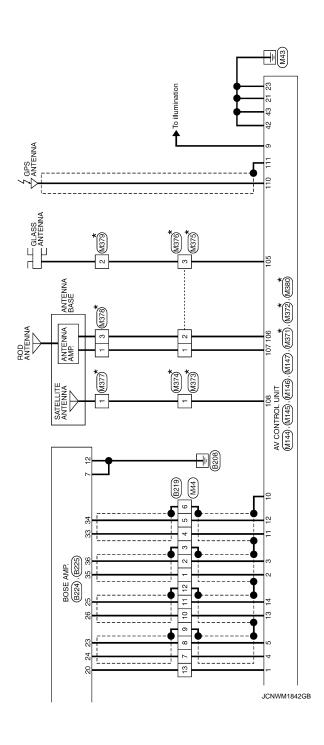








★: This connector is not shown in "Harness Layou



	-	1		-		B5	REAR SPEAKER RH	TK02FBR			<u>I</u>	[2]			Signal Name [Specification]		1			B9	REAR SPEAKER LH	TK02FBR			2 1		Signal Name [Specification]		-									
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手				48	BK[With rear view camera without telephone]	Conne	Connector No.	B12		Collie		00	Τ
H.S.	3 S			T	SHIELD -			210		Connec	Connector Name C.	CAMERA CONTROL UNIT	
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BOSE AUDIO WITH NAVIGATION SYS  Connector Name WIRE TO WIRE  Connector Trype TK/12MW    112   3 4 5	TEM	W/R B/R SHELD GR/V W/L SHELD GR/V W/L	B225   B0SE AMP.   SCA19FBR-SGA4   SGA133	T   T   T   T   T   T   T   T   T   T
6   7   8   9   10   11   12	1 K LUTWWWSS	13 SB - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	27 26 25 24 23 22 21 20 19 18 17 16    Terminal Color Signal Name [Specification]	1615 ion]
	Terminal   Color   Signal Name   Specification   No. of Wire	$HH^{-1}$	15	EAKER LH (-) (R (+) (R (-) (R (-) (EAKER LH (+) (EAKER I H (-)
7 R/W	1 W ——[With BOSE system] 4 L ——[With BOSE system] 5 O ——[With BOSE system] 5 B/P ——[With BOSE system]	Connector No. B224 Connector Name BOSE AMP. Connector Type SGA12FBR-S.42	SHIELD W W/L GR/V	NAL H (-) H (+)
Connector No. B206 Connector Name WIRE TO WIRE	O m > O > c {		M/L GR/V S > Y	H (-) H (+)  EAKER LH (+)  EAKER (-)  EAKER (-)
H.S. 1 2 3 - 4 5 6 7 8 9 10 11 12 13 14 15 16	13   SB	Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   LG   SOUND SIGNAL FRONT SQUAWKER LH (+)   2	32   W.R   SOUND SIGNAL FRONT RH (+)   34   B/R   SOUND SIGNAL FRONT RH (+)   35   W/R   SOUND SIGNAL FRONT RH (+)   36   B/R   SOUND SIGNAL FRONT LH (+)   36   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   38   B/R   SOUND SIGNAL FRONT LH (+)   39   B/R   SOUND SIGNAL FRONT LH (+)   30   B/R   SOUND SIGNAL FRONT LH (+)   30   B/R   SOUND SIGNAL FRONT LH (+)   31   B/R   SOUND SIGNAL FRONT LH (+)   32   B/R   SOUND SIGNAL FRONT LH (+)   33   B/R   SOUND SIGNAL FRONT LH (+)   34   B/R   SOUND SIGNAL FRONT LH (+)   35   B/R   SOUND SIGNAL FRONT LH (+)   36   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND SIGNAL FRONT LH (+)   37   B/R   SOUND	EAKEN M (-) RM (-) LH (-) LH (-)
Terminal   Color   Signal Name [Specification]   1   W	1000	- R B B B B B B B B B B B B B B B B B B		
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Connector No.  Connector Name FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)  Connector Type NISTOFFBR-CS  H.S.		Connector Name WIRE TO WIRE  Connector Type TK10MW-NS9  LLS	Terminal   Color   Signal Name [Specification]	a. 85 ac 85
53   L	4 4 3 3 3	Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]	8 B	<del>                                     </del>
Connector Name   WIRE TO WIRE	Terminal   Color   Signal Name [Specification]   1	6 9 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	17 Y	
BOSE AUDIO WITH NAVIGATION SYST Connector No. 8226 Connector Name WIRE TO WIRE Connector Type NSIZMBR-CS  H.S. 1 2 3 - 4 5 6 7 8 9 10 11 12	Terminal   Color   Signal Name [Specification]   1		Connector No. D15 Connector Name RROWT DOOR SPEAKER LH WITH BOSE SYSTEM) Connector Type INSQFERR-CS  LLS  LLS  Z 1	Terminal Color

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Name [Specification]  Name [Specification]  Name [Specification]  Name [Specification]	M
NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS02FBR-CS   NS0	AV
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Connector No. E27	Connector No.		E105	67	BR	1	59	0/B	S/M-B	
Gonnector Name PARKING BRAKE SWITCH	Connec	Connector Name	WIRE TO WIRE	89	>	1	30	G/R	S/M-A	
_		т		69	SB	1	31	۵	CAN-L	
Connector Type P01FB-A	Connec	Connector Type	TH70MW-CS10-M3	70	S.	1	32	٦	CAN-H	
á	þ			71	SB	1	33	Pl	PRI SPEED SENSOR	
	唐			72	Υ	_	34	LG/R	SEC SPEED SENSOR	
S.F.	Ę	ľ		73	٦	•	37	N/R	L/U&SEL-ON/OFF SOL	
	Ĭ	5	2 11 11 11 11 11 11 11 11 11 11 11 11 11	74	М	1	38	W/T	L/U&SEL LINEAR SOL	
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]			1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	76	GR	1	40	R∕≺	PL LINEAR SOL	
			2	77	0	1	45	В	GND	
				78	>	ı	46	>	VIGN	
Color	Terminal	⊢	3	79	>	ı	47	L/R	BATT	
No. of Wire Signal Name [Specification]	No.	_	Signal Name [Specification]	8	œ	1	48	>	VIGN	
-	2	BR	1	18	*	1				
	က	>	ī	82	2	1				
	4	*	ſ	83	0	1	Connector No.		F123	
Connector No. E104	S	PC	1					Г		
		ag.	1				Connector Name		WIRE TO WIRE	
Connector Name WIRE TO WIRE	a	ď		Conne	Connector No	200	Connector Type	Ť	TK16FGV=1V	
NO MOS PORT	-   ;	, ,				67		1	A	
Connector Type NST6FW-CS	= \$	<u>.</u> .	1	Connec	Connector Name	TCM (TRANSMISSION CONTROL MODULE)	Œ			
d)	2	-	1	,			手			
至力	2	>	-	Connec	Connector lype	RH40FB-RZ8-L-RH	E S	L		
	14	0	1	ģ				7	6 5 4 3 2 1	
7 6 5 4 3 2 1	15	BR	_	<b>B</b>	U			9	15 14 10 10 11 10 0	
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2	21	BR	_		7	23 24 25 26 27 28 29 30 45				
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	24	_	-		]		N	of Wire	oignal raine Lobecinoanori	
No. of Wire Signal Name [Specification]	25	0	1		)		-	٦	1	
>	26	9	1	Terminal	al Color	: :	က	G/R	ı	
2 SB –	27	>	1	No.	of Wire	Signal Name [Specification]	4	g/B	1	
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m	29	М	1	2	1/d	INH SW 3	g	1/8	1	
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W/9	p C	9 6		•	4	SENSOR GIND	7 0,	Ľ (		
+	20	H ₂	-	∞	<b>∧</b>	CLUCK (SELZ)	2	5	1	
1	21	LG	ı	6	L/R	CHIP SELECT (SEL1)	14	В	1	
	25	>	=	10	BR/R	DATA I/O (SEL3)	15	0	_	
12 W -	23	GR	i	Ξ	BR/W	INH SW 1				
13 Р	24	BR	1	13	^	ATF TEMP SENSOR				
- V 14	22	Υ	-	14	R/W	PRI PRESS SENSOR				
15 Y	26	W/L	1	15	M/A	SEC PRESS SENSOR				
	09	>	1	19	g/B	REV LAMP RELAY				
	9	æ	1	20	B/B	STABTER RFI AY				
	9	á	,	25	M/W	SENSOR GND				
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# [BOSE AUDIO WITH NAVIGATION]

(1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)   (1)	А
No.   Mis   No.   Nume   Wife TO WIRE   Type   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS15   TH40MM-CS	В
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Connector No.   Connector No.   Connector Name   Connector Name   Connector Type   Connector Type   Connector Type   Connector Type   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color	D
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Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Signal Name   Specification   Specification   Specification   Specification   Specification	I
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NSIZEW-CS   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Signal Nam   Sign	AV
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BOSE A	BOSE AUDIO WITH NAVIGATION SYSTEM		ľ	
Connector No.	M20	7	2 R -[With telephone without navigation system]	BR
Connector Nam	Connector Name WIRE TO WIRE	53 V -[Without automatic drive positioner] 54 I.G -[With automatic drive nocitioner]	3 B	24 W –[With audio steering switch without telephone]
Connector Typ.	Connector Type TH40MW-CS15	- 5	П	H
		4	7 × ×	31 G —[With audio steering switch and telephone]
λ. Γ	2 3 4 5 6 7 8 9 10 11 12 13 14 15	  -  -  -	- B S S S S S S S S S S S S S S S S S S	- 88 -
	16 17 18 19 20 21 22 22 42 25 28 19 40 41 42 49 44 45 48 10 20 20 20 20 20 20 20 20 20 20 20 20 20	Connector No. M22	$\mathbb{H}$	SB
		Connector Name WIRE TO WIRE	12 L 13 SB	34 Y ==
- 1		Connector Type TH12FW-NH	Н	
Terminal Col No. of W	Golor Signal Name [Specification]	4	16 R = -	
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╁	- 8	11 10 9	Connector Name STEERING ANGLE SENSOR	
2 r		2	Connector Type TH08FW-NH	
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35	x 0	ATT.	Connector Type TRUSHGY-IV	
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52 G	GR -[With automatic drive positioner]		Lerminal Golor   Signal Name [Specification]	
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# [BOSE AUDIO WITH NAVIGATION]

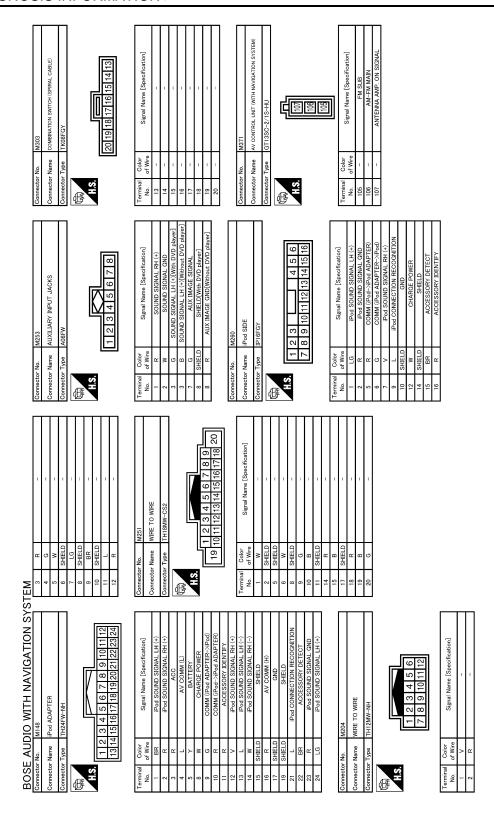
Connector No. M66 Connector Name CENTER SPEAKER  Connector Type TK02FBR  Terminal Color M67 Connector Name FRONT SOUAWKER RH Connector Name FRONT SOUAWKER RH Connector Type TK02FBR  Terminal Color Signal Name [Specification]  Terminal Color Signal Name [Specification]  Terminal Color Signal Name [Specification]  Terminal Color Signal Name [Specification]  Terminal Color Signal Name [Specification]  Terminal Color Signal Name [Specification]  Terminal Color Signal Name [Specification]  Terminal Color Signal Name [Specification]	A B C
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BOSE AUDIO WITH NAVIGATION SYSTEME Connector No.   M34   Connector No.   M34   Connector No.   M34   Connector No.   M34   Connector No.   M34   Connector No.   M34   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Connector No.   Conne	M AV
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Revision: 2009 September

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21	Υ	-	79	В	-	19 B	_				
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23	57	-	81	ΓG	-						
24	SB	-	82	_	-						
52	٨		83	Μ	-[With automatic drive positioner]	Connector No. M122	.2				
27	Υ	-	83	GR	-[With driver side power seat]	Od Sandy	(3 II IGOM TOGENOO AGGA) MOG				
28	œ	1	84	œ	1		(BOD) CONTROL MODOLE)				
30	>	1	82	>	-[With front heated seat and passenger side power seat]	Connector Type TH4	TH40FB-NH				
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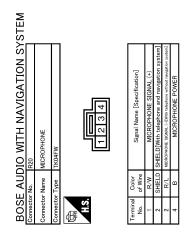
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BOSE AUDIO WITH NAVIGATION SY	M
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offication]	Е
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Revision: 2009 September AV-681 2010 Murano



JCNWM3176GB

Fail-Safe

When the ambiance 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**

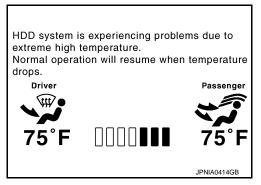
- When the ambiance temperature is -20°C (-4°F) or lower, or when it is 70°C (158°F) or higher
- when HDD is malfunctioning

### < ECU DIAGNOSIS INFORMATION >

### [BOSE AUDIO WITH NAVIGATION]

Display

The messages displayed on fail-safe conditions are as shown below:



Fail-safe mode	Display (display of the fail-safe condition)
When HDD temperature is low	HDD system is experiencing problems due to extreme low temperature.  Normal operation will resume when temperature rises.
When HDD temperature is high	HDD system is experiencing problems due to extreme high temperature.  Normal operation will resume when temperature drops.
When HDD is malfunctioning	HDD system is not functioning. Please contact your dealer for assistance.

### DESCRIPTION OF CONTROLS

Function		When Fail-safe Function is activated	
Air conditioner	Operation	Only multifunction switch (preset switch) can be operated.	
	Display	<ul> <li>LED of multifunction switch (preset switch) illuminates.</li> <li>Aimed temperature, blow angle, and flow rate are displayed in simplified mode.</li> </ul>	
Audio	Operation	Only ON/OFF and volume control operations by multifunction switch (preset switch) are possible.	
Audio	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 diagno	sis	The display in simplified mode of fail-safe condition	
CONSULT-III dia	agnosis	Cannot be operated.	

**Ability Operation Mode** 

There is an ability operation mode for Fail-safes due to low or high ambiance 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 the following conditions and normal mode is restored.

When the temperature of HDD is low or high.

If the ambient temperature becomes out of the fail-safe conditional 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.)

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DTC Index

### SELF-DIAGNOSIS RESULTS DISPLAY ITEM

DTC	Display item	Refer to
U1000	CAN COMM CIRCUIT [U1000]	AV-605, "Diagnosis Procedure"
U1010	CONTROL UNIT (CAN) [1010]	AV-606, "Diagnosis Procedure"
U1310	CONTROL UNIT (AV) [U1310]	AV-607, "DTC Logic"
U1200	Control Unit FLASH-ROM [1200]	AV-608, "DTC Logic"
U1201	Gyro NO CONN [1201]	AV-609, "DTC Logic"
U1216	CAN CONT [U1216]	AV-610, "DTC Logic"
U1217	BLUETOOTH CONN [U1217]	AV-611, "DTC Logic"
U1218	HDD CONN [U1218]	AV-612, "DTC Logic"
U1219	HDD READ [U1219]	AV-613, "DTC Logic"
U1220	XM SERIAL COMM [U1220]	AV-614, "DTC Logic"
U121A	HDD WRITE [U121A]	AV-615, "DTC Logic"
U121B	HDD COMM [U121B]	AV-616, "DTC Logic"
U121C	HDD ACCESS [U121C]	AV-617, "DTC Logic"
U121D	DSP CONN [U121D]	AV-618, "DTC Logic"
U121E	DSP COMM [U121E]	AV-619, "DTC Logic"
U121F	INTERNAL COMM [U121F]	AV-620, "DTC Logic"
U1204	GPS COMM [U1204]	AV-621, "DTC Logic"
U1205	GPS ROM [U1205]	AV-622, "DTC Logic"
U1206	GPS RAM [U1206]	AV-623, "DTC Logic"
U1207	GPS RTC [U1207]	AV-624, "DTC Logic"
U1243	FRONT DISP CONN [U1243]	AV-625, "DTC Logic"
U1244	GPS ANTENNA CONN [U1244]	AV-627, "DTC Logic"
U1250	CAMERA CONT. CONN [U1250]	AV-628, "DTC Logic"
U1258	XM ANTENNA CONN [U1258]	AV-629, "DTC Logic"
U1300 U121F	AV COMM CIRCUIT [U1300]     INTERNAL COMM [U121F]	AV-630, "Description"
U1300 U1240	AV COMM CIRCUIT [U1300]     SWITCH CONN [U1240]	AV-630, "Description"
U1300 U1252	AV COMM CIRCUIT [U1300]     REAR CAMERA LAN CONN [U1252]	AV-630, "Description"
U1300 U1254	AV COMM CIRCUIT [U1300]     IPOD CONN [U1254]	AV-630, "Description"
U1300 U1252 U1254 [*]	AV COMM CIRCUIT [U1300]     REAR CAMERA LAN CONN [U1252]     IPOD CONN [U1254]*	AV-630, "Description"
U1300 U1240 U1252 U1254 [*]	AV COMM CIRCUIT [U1300]     SWITCH CONN [U1240]     REAR CAMERA LAN CONN [U1252]     IPOD CONN [U1254]*	AV-630, "Description"
U1300 U121F U1240 U1252 U1254 [*]	AV COMM CIRCUIT [U1300]     INTERNAL COMM [U121F]     SWITCH CONN [U1240]     REAR CAMERA LAN CONN [U1252]     IPOD CONN [U1254]*	AV-630, "Description"

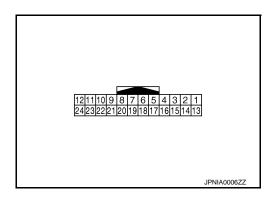
NOTE:

# **AV CONTROL UNIT**

ECU DIAGNOSIS INFORMATION >	[BOSE AUDIO WITH NAVIGATION]
Non-equipped item is not displayed.	
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Reference Values

**TERMINAL LAYOUT** 



#### PHYSICAL VALUES

	minal e color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
1 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
2 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage
3 (R)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage
4	_	Shield	_	_	_	_
5 (B)	Ground	AUX image ground	_	Ignition switch ON	_	0 V
6 (R)	Ground	RGB image 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.	(V) 0.8 0.4 0 → 40μs JSNIA1030ZZ
7	_	Shield	_	_	_	_
8 (B)	Ground	Horizontal synchronizing (HP) signal	Output	Ignition switch ON	_	(V) 4 0 → 20µs SKIB3601E

## < ECU DIAGNOSIS INFORMATION >

# [BOSE AUDIO WITH NAVIGATION]

	rminal e color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
					When RGB image is displayed.	5.0 V
9 (W)	Ground	RGB area (YS) signal	Input	Ignition switch ON	When rear view camera image is displayed.	(V) 6 4 2 0  → +200 μ s  PKIB4948J
11 (R)	Ground	Communication signal (CONT→DISP)	Input	Ignition switch ON	When adjusting display brightness.	(V) 6 4 2 0 ++1ms PKIB5039J
12 (W)	14	Camera image signal	Input	Ignition switch ON	When rear view camera image is displayed.	(V) 0. 4 0 -0. 4 → 40µs SKIB2251J
13 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
14	Ground	Shield (camera image ground	_	Ignition switch ON	_	0 V
15 (Y)	5	AUX image signal	Input	Ignition switch ON	When AUX image is displayed.	(V) 0.4 0 -0.4 ***-40\(\mu\)s SKIB2251J
17 (G)	Ground	RGB image signal (R: red)	Input	Ignition switch ON	Start confirmation/adjust- ment mode, and then dis- play color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	(V) 0.8 0.4 0 → 40µs JSNIA1029ZZ

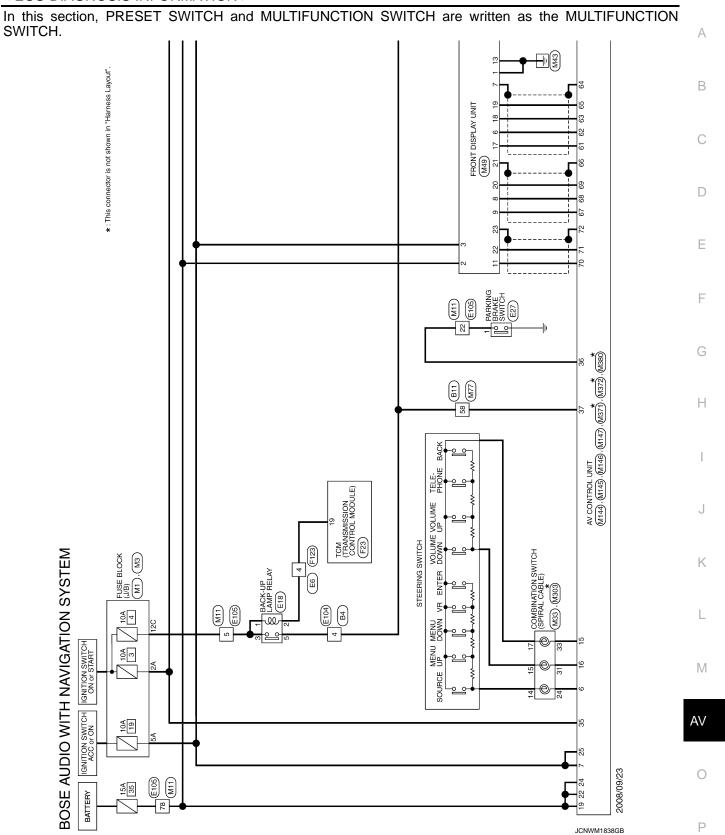
# [BOSE AUDIO WITH NAVIGATION]

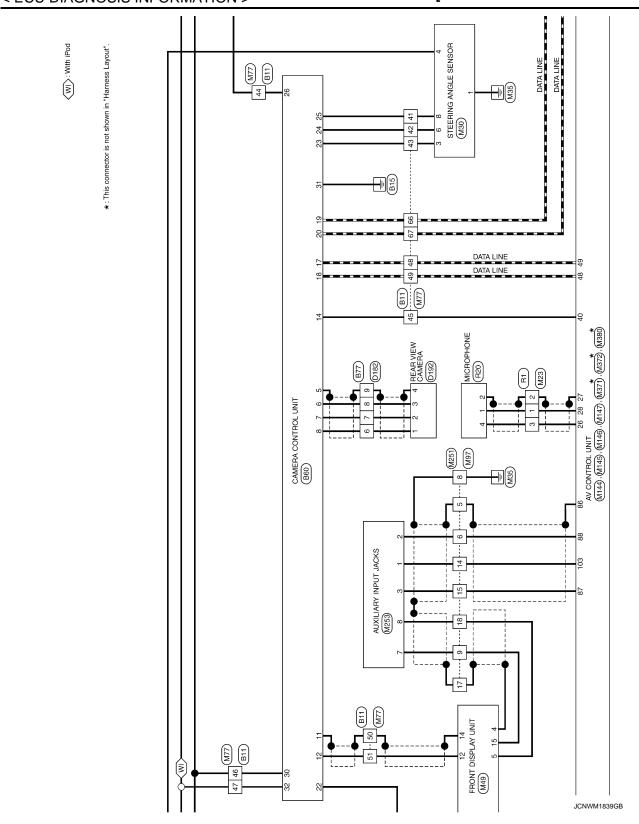
	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
18 (W)	Ground	RGB image signal (B: blue)	Input	Ignition switch ON	Start confirmation/adjust- ment mode, and then dis- play color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	(V) 0.8 0.4 0  → 40µS  JSNIA1031ZZ
19 (B)	Ground	RGB synchronizing signal	Input	Ignition switch ON	_	(V) 0.4 0 → 20μs JPNIA0461GB
20 (R)	Ground	Vertical synchronizing (VP) signal	Output	Ignition switch ON		(V) 4 0 ++4ms SKIB3598E
21	_	Shield			_	_
22 (G)	Ground	Communication signal (DISP→CONT)	Output	Ignition switch ON	When adjusting display brightness.	(V) 6 4 2 0 + 1ms PKIB5039J
23	_	Shield		_	_	_

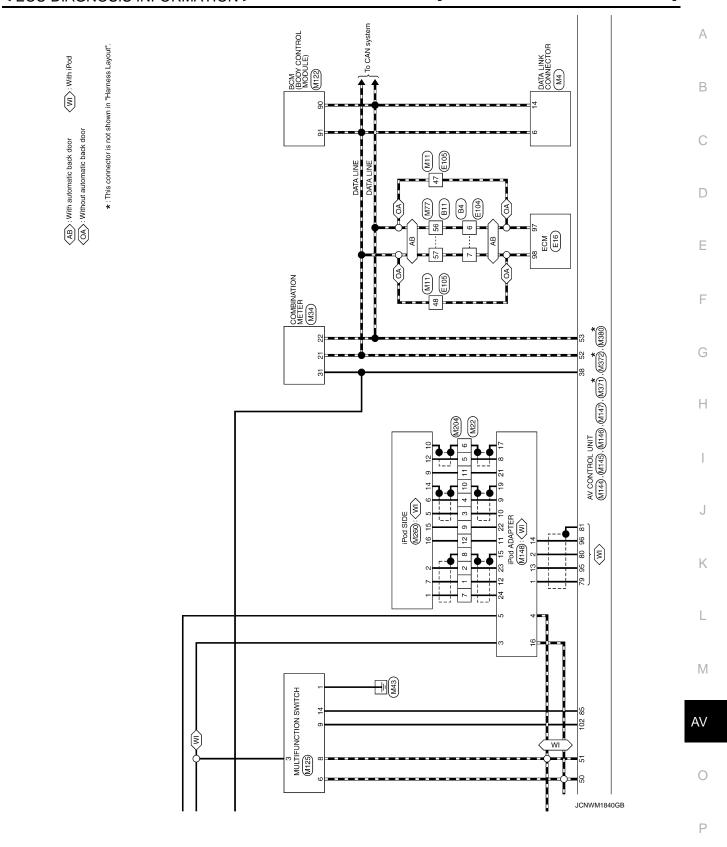
Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM -

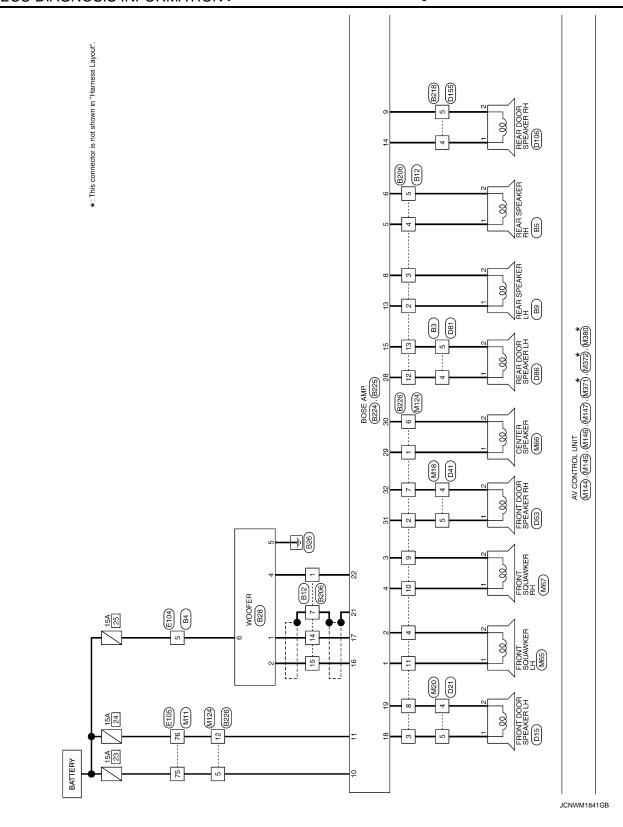
INFOID:0000000005528806

NOTE:

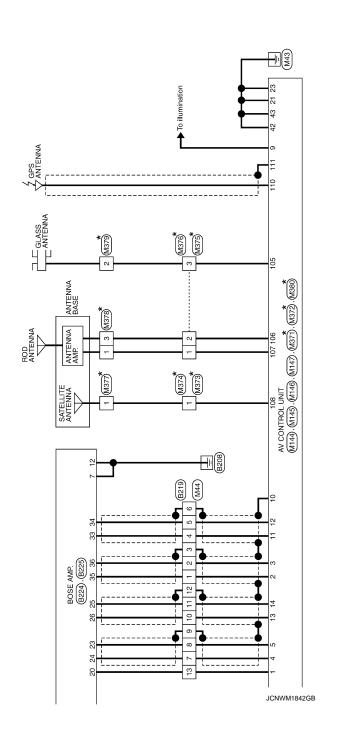








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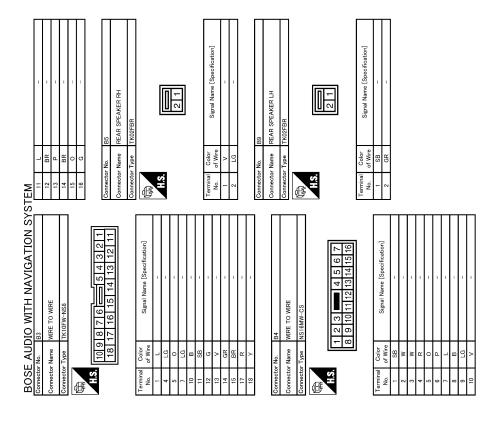
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医	Connector No. B218	6	SHIELD	1	厚		
	Connector Name WIRE TO WIRE	10	GR/V	1	AII C		
1 2 3 4 5	П	Ξ	M/L	1		37 36	35 34 33 32 31 30 29 28
6 7 8 9 10 11 12	Connector Type TK10FW=NS8	12	SHIELD			27 26	26 25 24 23 22 21 20 19 18 17 16 15
<u>,</u>	Q	13	SB	1		<u> </u>	
	至	12	SB	1			
		16	>-	1			
a	10 9 8 7 6 5 4 3 9 1	17	۳	ı	Terminal	Color	[]N []O
	12 16 16 17 10 10	18	>	1	N	of Wire	olgnal Ivame [obecincation]
- 51	10 10 14 13	29	g	1	15	~	SOUND SIGNAL REAR DOOR SPEAKER LH (-)
- d		30	۵	1	16	B/B	SOLIND SIGNAL WOOFER (+)
+		5	.   >		1	M/P	SOLIND SIGNAL WOOFER (=)
1 >	Tominal	5 8	. 8		2	M	SOUND SIGNAL EBONT DOOD SPEAKED IN (+)
t	_	20	á		2 5	،	COURT STORY TOOK TOOK STEAKER LIT (*)
- R/L	†				<u> </u>	n (	SOUND SIGNAL FRONT DOOR SPEAKER LH (=)
1	M	L			SO	SB	AMP. ON SIGNAL
- B	4 L –[With BOSE system]	Conne	Connector No.	B224	21	SHIELD	SHIELD
9 SHIELD -	4 O -[Without BOSE system]	0	Connector Manne	DOSE AMB	22	Μ	WOOFER AMP. ON SIGNAL
10 W	5 0 -[With BOSE system]	000	ctor ivame	DOSE AMIP.	23	M/L	SOUND SIGNAL REAR LH (-)
- 0	5 B/P -[Without BOSE system]	Conne	Connector Type	SGA12FBR-SJA2	24	GR/V	SOUND SIGNAL REAR LH (+)
ł	_		   		25	I/M	SOLIND SIGNAL BEAR BH (=)
┨	0 8 0	Œ	_		38	Z AC	SOLIND SIGNAL BEAR RH (+)
	11 >	<b>‡</b>			28	3	SOLIND SIGNAL DEAD DOOP SPEAKED LH (+)
Occurred No.	- (	H.S.	ω L	<u> </u>	07 00	,	SOUND SIGNAL REAR DOON SEEANER LH (+)
1	: פ		<u> </u>	14 13 72 11 10	67	> 1	SOUND SIGNAL CENTER SPEAKER (#)
Connector Name WIRE TO WIRE	>		-	0 7 5 6 7 0	90	۱	SOUND SIGNAL CENTER SPEAKER (-)
Т	d.			0 / 0 3 4	31	BR	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
Connector Type NS16MW-CS	15 SB –				32	>	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)
á	$\dashv$				33	W/R	SOUND SIGNAL FRONT RH (+)
医	18 GR -	Terminal	_	Simal Nama [Specification]	34	B/R	SOUND SIGNAL FRONT RH (-)
		No.	of Wire	_	35	W/R	SOUND SIGNAL FRONT LH (+)
1 2 3 1 4 5 6 7		-	ΓG	SOUND SIGNAL FRONT SQUAWKER LH (+)	36	B/R	SOUND SIGNAL FRONT LH (-)
	Connector No. B219	2	^	SOUND SIGNAL FRONT SQUAWKER LH (-)			
8 9 10 11 12 13 14 15 16	Г	က	_	SOUND SIGNAL FRONT SQUAWKER RH (=)			
	Connector Name WIRE TO WIRE	4	۵	SOUND SIGNAL FRONT SQUAWKER RH (+)			
	Connector Type TH32MW-NH	2	>	SOUND SIGNAL REAR SPEAKER RH (+)			
	1	9	aa	SOLIND SIGNAL BEAR SPEAKER RH (=)			
No. of Wire Signal Name [Specification]		_	a	CNS			
t	TIT	۰	9	SOLIND SIGNAL BEAD SBEAKED LH (=)			
t	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		á	SOOND SIGNAL NEAR SPEAKER CIT ( )			
2 000	11012141516 7 8 9 10 11 11 12 13 14 15 15	n 5	+	SOUND SIGNAL REAR DOOR SPEAKER RR (=)			
$\dagger$	10 20 21 22 22 24 25 26 27 20 20 20 20 21	2 ;	+	DALIENI			
×	10 13 20 21 22 23 24 23 20 21 20 23 30 31		¥	BALIERY			
5 BR -		15	m	GND			
7 SHIELD -		13	SR	SOUND SIGNAL REAR SPEAKER LH (+)			
$\dashv$	nal	14	_	SOUND SIGNAL REAR DOOR SPEAKER RH (+)			
10 V -	1 W/R						
-1 P	2 B/R -						
Н	3 SHIELD -						

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# [BOSE AUDIO WITH NAVIGATION]

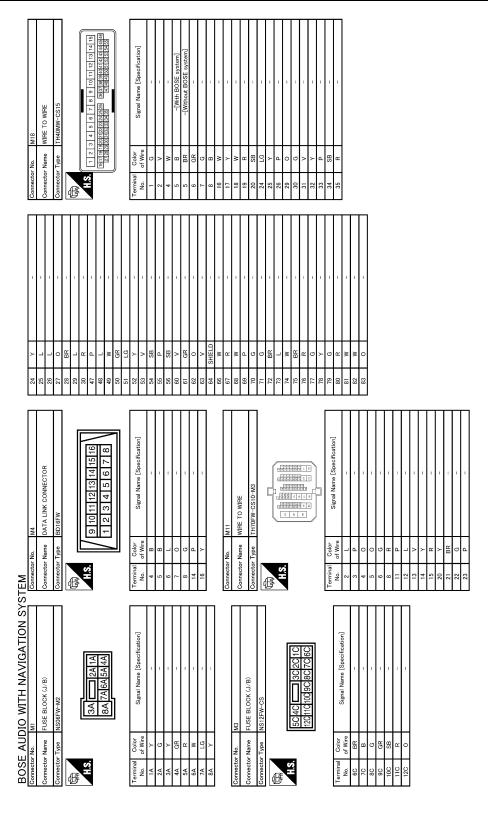
Connector No.   D53	A B C
53   L   -\text{-\text{With automatic drive positioner}}     54   SB   -\text{-\text{Without automatic drive positioner}}     54   SB   -\text{-\text{Without automatic drive positioner}}     55   LG   -\text{-\text{Without automatic drive positioner}}     55   LG   -\text{-\text{Without automatic drive positioner}}     55   O   -\text{-\text{Without automatic drive positioner}}     55   O   -\text{-\text{Without automatic drive positioner}}     56   O   -\text{-\text{Without automatic drive positioner}}     57   O   -\text{-\text{Without automatic drive positioner}}     58   D   -\text{-\text{-\text{Without automatic drive positioner}}     70   -\text{-\text{Without automatic drive positioner}}     80   D   --\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\text{-\te	E F G
Connector Name   WIRE TO WIRE	J K
BOSE AUDIO WITH NAVIGATION SYR   Connector Name   WIRE TO WIRE	M AV

Revision: 2009 September AV-697 2010 Murano

BOSE AUDIO WITH NAVIGATION SYSTEM	₩IJ					
Connector No. D86	- M	Terminal Color	[ granjan]	83	BR	AVCC1-APS1
Marrays agon uray in arystags agon awar	LG	No. of Wire Signal Name Lo	becilication	84	В	GNDA-APS1
	10 B –	1 R CAMERA ON SIGNAL	N SIGNAL	82	٨	ASCD SW
Connector Type NS02FBR-CS	L	2 G GND		86	SB	FTPRES
		3 B CAMERA IMAGE SIGNAL	GE SIGNAL	87	GR	AVCC2-APS2
		4 SHIELD SHIELD	Q I	88	0	KLINE
	14 P –			91	7	AVCC2-FTPRES
				92	BR	GNDA-ASCDSW
][-		Connector No. E6		93	BR	IGN SW
7		L COMM		94	GR	TACHO(CABIN)
				92	<b>&gt;</b>	TF
		Connector Type TK16MGY-1V		96	GR	GNDA-FTPRES
Terminal Color	Connector No. D182			97	۵	VEHCAN-L
of Wire	Omeone Name WIBE TO WIBE	IF.		86	Г	VEHCAN-H
1 L		[	ſ	100	g	GNDA-APS2
2 W -	Connector Type TK12FW	123 4	5 6 7	102	В	NEUT-H
	á	8 0 10 11 10 13	1/1 15 16	104	SB	GNDA-TF
	医	0 2 1 1 0 0	2	105	>	VBR
Connector No. D106	֓֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֝֟֟֝֟֟֝֟֟֝֟֟֝֟֝֟֝֟֝			106	SB	BRAKE
Connector Name REAR DOOR SPEAKER RH (WITH BOSE SYSTEM)	5 4 3 6 1	L		107	a	GND
- F	12 11 10 9 8 7 6	Signal Name [Specification]	pecification]	30,	m ;	GND
Connector Type NSUZEBR-CS		†		601	× (	CDCA
₫.		7 .		1	5 0	BNCSW
ATT.	L	- 0		- 5	0 0	GIND
[ ]	Signal Name [Specification]	¥ (		Z	- -	GND
	+	+				
2 1	= -	> 0		Connector No	No F18	
	11 (6	ł			Γ	
	+	: 0		Connector Name		BACK-UP LAMP RELAY
lal Color	- 8	F		Connector Type		MS02FL-M2-LC
	- G	- SB				
-	- B	┝		C C		
2 W =	9 SHIELD -	H		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		ď
	- TG -			Ċ		<u>J</u>
						8
Connector No. D155	12 G -	Connector No. E16				<u>-                                      </u>
Connector Name WIRE TO WIRE		Connector Name ECM				- 23
Т	ſ	7			-	
Connector Type TK10MW-NS8	Connector No. D192	Connector Type RH24FB-RZ8-L-LH		Terminal	Color	Signal Name [Specification]
<b>4</b>	Connector Name REAR VIEW CAMERA			O	ot Wire	
	Connector Type TH04MW-NH			- 0	2 0	
18	add land	81 85 89 93 97 101 105	109	4 65	2 0	
6 0 / 0 - 0 6 7 6 7		82 86 90 94 98 102 106	0110	2	2 00	1
11 12 13 14 15 16 17 18		83 87 91 95 99 103 107	112			
T1	1 2 3 4	-1-0				
		Signal Name [Specification]   No.   of Wire	pecification]			
- M		м	-			
4 L –		82 0 APS2	.2			

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SSR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   SSOR   S	А
S,M+B   S,M+B   S,M+A   S,M+B   S,M+A   S,M+A   S,M+A   S,M+A   S,M+A   S,M+B   S,M+A   S,M+B   S,M+A   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+B   S,M+	В
O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B   O'B	С
29   31   31   32   33   34   34   34   34   34   34	D
L MODULE)  1 47 48 1 48 46 1 43 44 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 41 42 1 4	Е
N	F
	G
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Wife TO Wife TH70MW-CS10-M3  Signal Name [Specification]	J
Connector Name   Connector Name   Connector Name   Connector Name   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Conn	K
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	BOSE A	UDIO WITH NAVIGATION SY	-		-
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	Н	Ц	of Wire		
	52 GR 52 R	-[With automatic drive positioner] -[Without automatic drive positioner]	1 W – 2 SHIELD –[With telephone and navigation system]	Terminal Color Signal Name [Specification]	
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Revision: 2009 September AV-701 2010 Murano

Connector No M66	ше	Connector Type TK02FBR	Œ	S:	2 1		la l	No. of Wire	2 0 =		١	Connector No. M67	Connector Name FRONT SQUAWKER RH	Connector Type TK02EBP	1	Œ			2 1	]		Terminal Color	No. of Wire Signal Name Lopecinication		œ	2 W –[Without BUSE system]												
2 y RATTERY[With navigation evetom]	2 Y INVERTER VCC[Without navigation system]	SIGN	o G	5 B AUX IMAGE GND[With navigation system] 5 SHIELD SHIELD[Without navigation system]	R RGB	7 SHIELD SHIELD 8 B HPIWith navigation system]	D H	9 W RGB AREA (YS) SIGNAL	× ×	13 B GND[With navigation system]	BR INVE	SHIELD	5 'د	15 T AUX IMAGE SIGNAL[With navigation system]	J 0	Ħ	Y RGB (B:BLUE) SIG	$\dashv$	œ	SHELD	22 G COMM (DISP->CONT)			Connector No. M65	Connector Name FRONT SQUAWKER LH	TV00FDD	1	E	[ [ S		2 1			Terminal Color Simal Nama [Spanification]	No. of Wire Ogidal Natile Lopecinication I	1 L -[Without BOSE system]	2 B -[Without BOSE system]	
STEM Gonnector No. 1M44	ne	Connector Type TH32FW-NH	医	H.S.	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 32 31 30 29 28 27 26 25 24 29 22 21 20 19 18 17		-a	No. of Wire	2 - 2	3 SHIELD -	4 B	┪	6 SHIELD -	1 1 2 X	₩.	Т	H	ည	$\perp$		16 L =	-	29 LG -	30 0 -	+	32 V =		Connector No. M49	Connector Name FRONT DISPLAY UNIT	┑	Connector Type THZ4FW=NH				24 23 22 21 20 19 18 17 16 15 14 13		<u></u>	No. of Wire
BOSE AUDIO WITH NAVIGATION SYS	Connector Name COMBINATION METER	Connector Type TH40FW-NH	Œ	HS.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 24 25 26 27 28 29 39 31 32 33 34 35 36 37 38 38 40		<u>a</u>	No. of Wire	2 0 IGN	3 B GROUND		1	SB	9 W SWILL POWER	) _	12 R SELECT SWITCH	>	13 Y ILLUMINATION CONTROL SMTCH (+)[Without automatic drive positioner]	GR ILLUMINATION	BR	18 L AMBIENI SENSOR	. >	21 L CAN-H	22 P CAN-L	+	24 W FUEL LEVEL SENSOR GROUND	G PARKING	A .	æ	۵.	31 V VEHICLE SPEED (8-PULSE) 33 1.0 OB OFF/SBOBTS	2 0	SB SEAT BELT	æ				

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# [BOSE AUDIO WITH NAVIGATION]

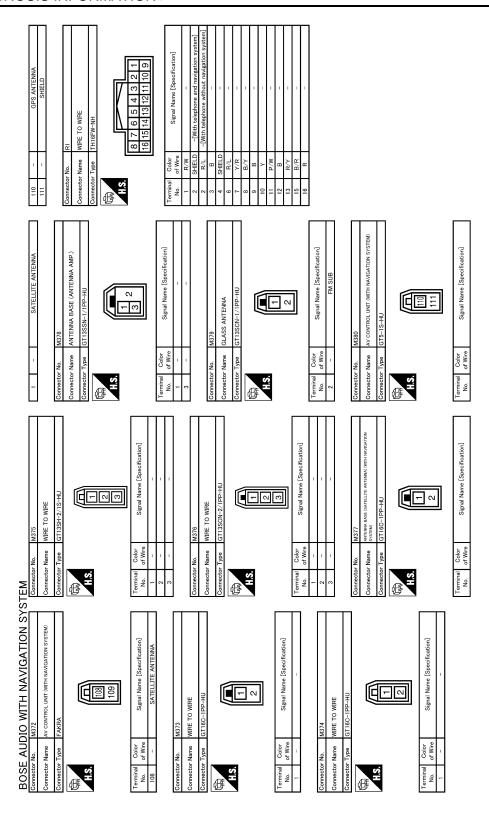
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Т	Connector Name	AV CONTROL UNIT (WITH NAVIGATION SYSTEM)	: 5	` '
Connector type INSTREBATOS	Connector Lype	1H18FW-C5Z	- 88 c	Connector Type   ITHSZFW-NH
	子 HS		38 V VEHICLE SPEED (8-POLSE) 40 P CONNECTION RECOGNITION 40 P CONNECTION SECONDAILON	H.S.
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			49 L AV COMM (L) 50 R AV COMM (H)	
Terminal Color Signal Name [Specification] No. of Wire	Terminal Color No. of Wire	Signa	51 L AV COMM (L) 52 L CAN-H	Terminal Color Signal Name [Specification]
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Je Je	Н	BATTERY	Terminal Color Signal Name [Specification]	
Connector Type TH16FW-NH			T	
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/ / \ \ \	Connector Type	TH40FW-NH	8	
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	ation]  M SYSTEM  GNAL	А
M303 COMBINATION SWITCH (SPIPAL CABLE) TKOBFGY  20 19 118 17 116 15 14 13	Signal Name (Specification)	В
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38	To Specification   SignAL, IRH (+) H (-)[With DVD player] H (-)[With DVD player] H (-)[With DVD player] H (-)[With DVD player] H (-)[With DVD player] MAR SIGNAL With DVD player] DVD SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH (+) NO SignAL, IH	Е
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Connector No. Connector Type	Terminal   Color   No.   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinettor   Orlinet	Н
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		J
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BOSE AU Connector No. Connector Name Connector Type IIS	Terminal   Color	0
	JCNWM3174GB	Р

Revision: 2009 September AV-705 2010 Murano



JCNWM3175GB

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BOSE AUDIO WITH NAVIGATION SYSTEM	R20	MICROPHONE	TK04FW	1234	S occupation S	olgnal Name Lopecincation	MICROPHONE SIGNAL (+)	SHIELD SHIELD[With telephone and navigation system]	MICROPHONE SIGNAL (-)[With telephone without navigation system]	MICROPHONE POWER
DIC	R2(		П		Ŀ	9	H	D SH		H
: AL	No.	Name	Type		Color	of Wire	R/W	SHIEL	R/L	۵
BOSE	Connector No.	Connector Name	Connector Type	是 H.S.	Terminal	No.	-	2	2	4

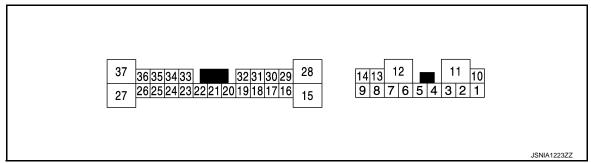
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# < ECU DIAGNOSIS INFORMATION >

# BOSE AMP.

Reference Values

## TERMINAL LAYOUT



#### PHYSICAL VALUES

	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
1 (LG)	2 (V)	Sound signal front squawk- er LH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E
4 (P)	3 (L)	Sound signal front squawker RH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E
5 (Y)	6 (BR)	Sound signal rear speaker RH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E
7 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
10 (SB)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage
11 (GR)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage
12 (B)	Ground	Ground	_	Ignition switch ON	_	0 V

## **BOSE AMP.**

# [BOSE AUDIO WITH NAVIGATION]

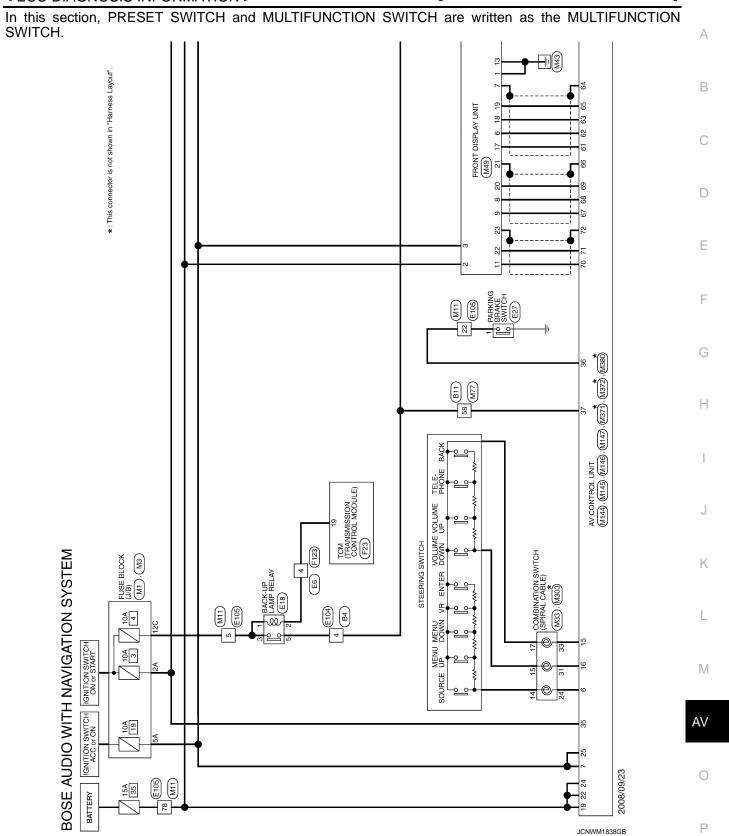
	minal e color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
13 (GR)	8 (BR)	Sound signal rear speaker LH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E
14 (L)	9 (O)	Sound signal rear door speaker RH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E
16 (B/R)	17 (W/R)	Sound signal woofer	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E
18 (W)	19 (B)	Sound signal front door speaker LH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 → 2ms SKIB3609E
20 (SB)	Ground	Amp. ON signal	Input	Ignition switch ACC	_	12.0 V
21	_	Shield	_	_	_	_
22 (W)	Ground	Woofer Amp. ON signal	Output	Ignition switch ACC	_	12.0 V
24 (GR/V)	23 (W/L)	Sound signal rear LH	Input	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E

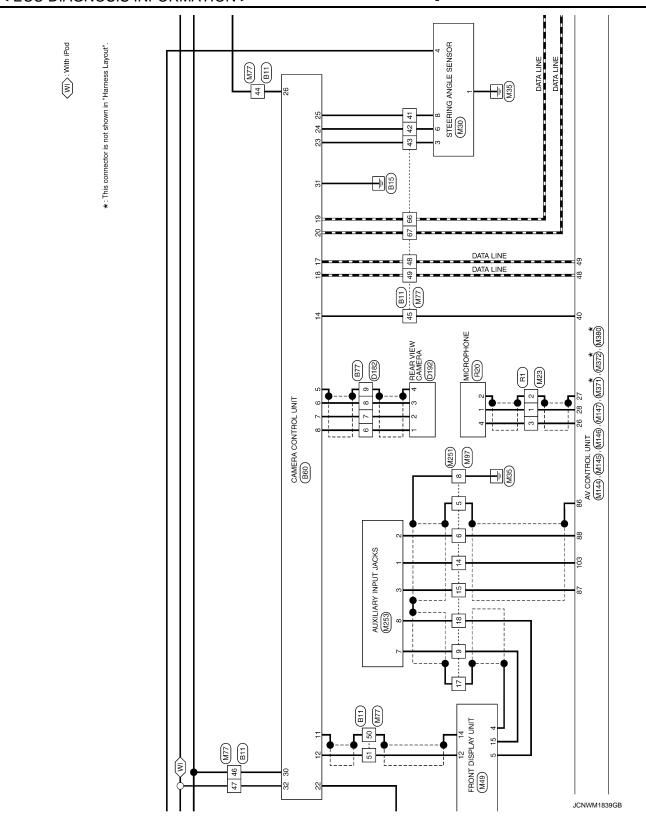
	ninal color)	Description			Condition	Reference value
+	-	Signal name	Input/ Output		Condition	(Approx.)
26 (GR/V)	25 (W/L)	Sound signal rear RH	Input	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E
28 (G)	15 (R)	Sound signal rear door speaker LH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E
29 (V)	30 (P)	Sound signal center speaker	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E
31 (BR)	32 (Y)	Sound signal front door speaker RH	Output	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E
33 (W/R)	34 (B/R)	Sound signal front RH	Input	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E
35 (W/R)	36 (B/R)	Sound signal front LH	Input	Ignition switch ON	Sound output.	(V) 1 0 -1 + 2ms SKIB3609E

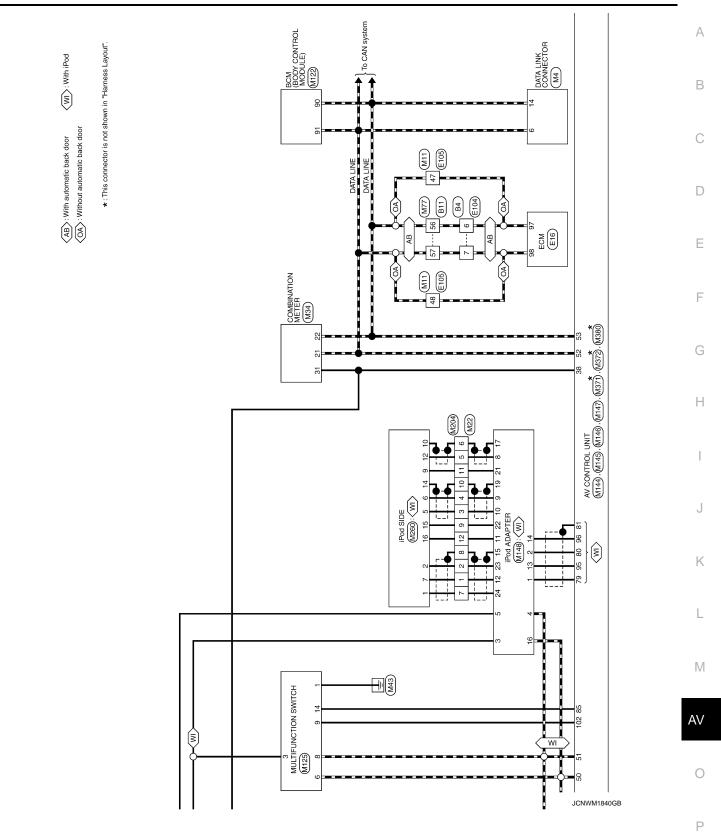
Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM -

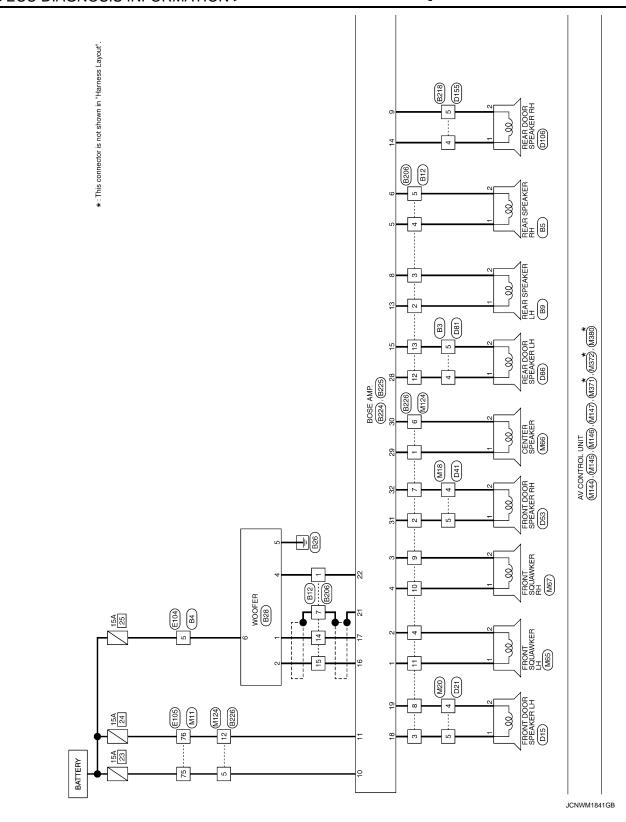
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NOTE:

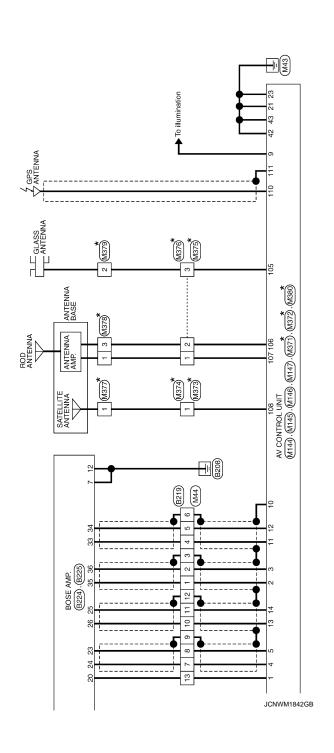








: This connector is not shown in "Harness Layout".



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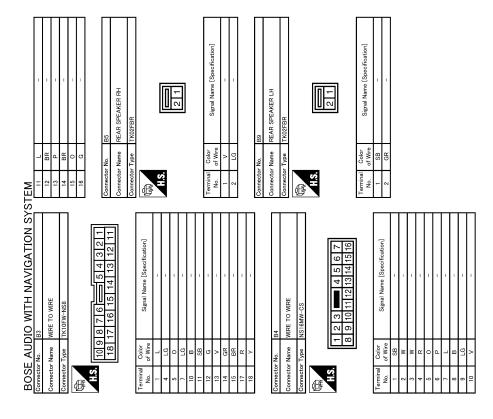
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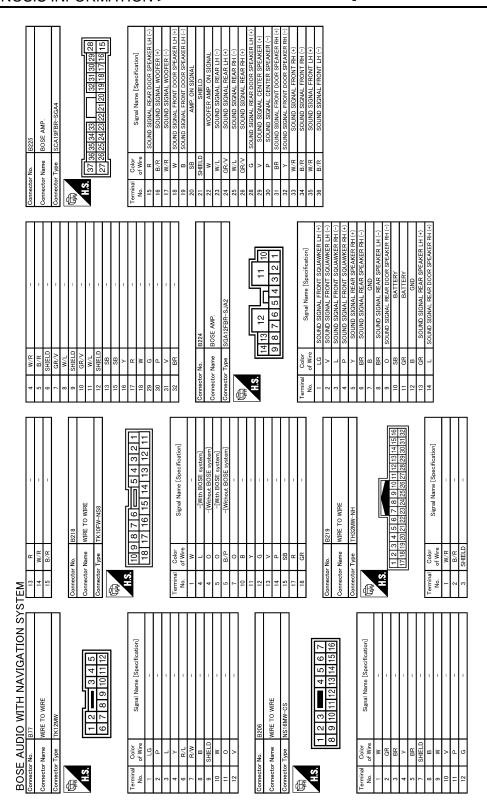
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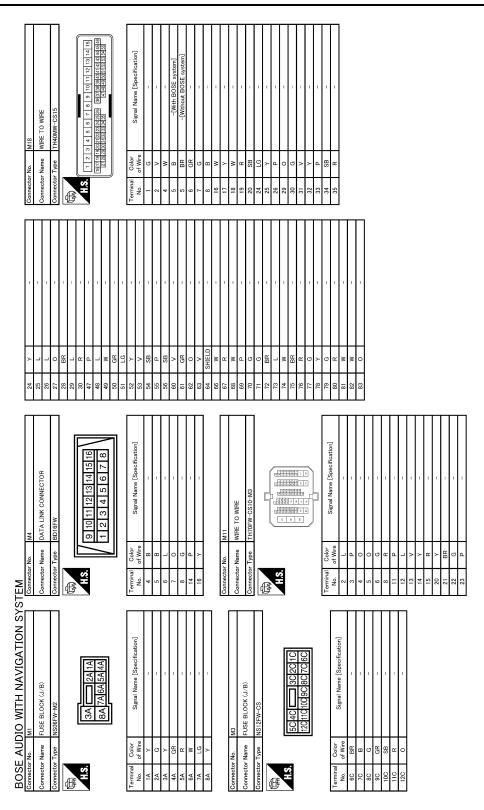
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Wife TO Wife TH70MW-CS10-M3  Signal Name [Specification]	J
Connector Name   Connector Name   Connector Name   Connector Name   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Conn	K
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Connector Name   PARKING BRAKE SWITCH   Connector Type   POIFB-A	M
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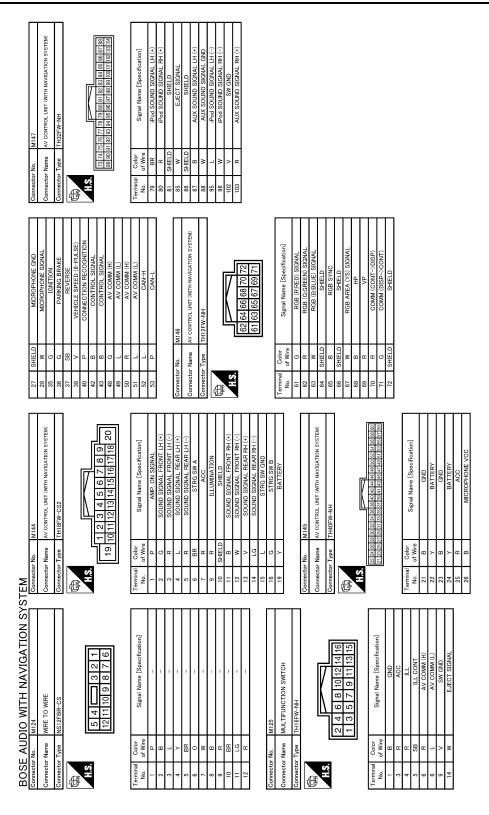
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24 BR	
2   R   -{With telephone without navigation system}     4   SHIELD	
STEM	
Connector Name   WIFE TO WIFE	JCNWM3170GB

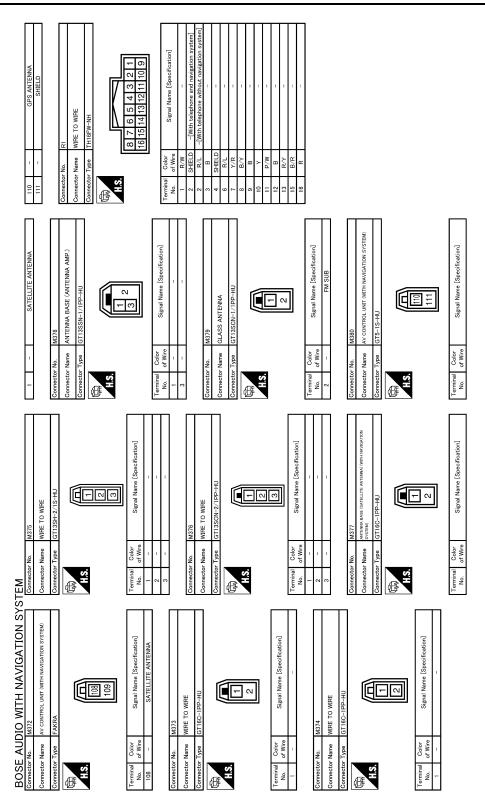
Connector No M66	ше	Connector Type TK02FBR	Œ	S:	2 1		la l	No. of Wire	2 0 =		١	Connector No. M67	Connector Name FRONT SQUAWKER RH	Connector Type TK02EBP	1	Œ			2 1	]		Terminal Color	No. of Wire Signal Name Lopecinication		œ	2 W –[Without BOSE system]												
2 y RATTERY[With navigation evetom]	2 Y INVERTER VCC[Without navigation system]	SIGN	۵ ا	5 B AUX IMAGE GND[With navigation system] 5 SHIELD SHIELD[Without navigation system]	R RGB	7 SHIELD SHIELD 8 B HPIWith navigation system]	D H	9 W RGB AREA (YS) SIGNAL	× ×	13 B GND[With navigation system]	BR INVE	SHIELD	5 ;	15 T AUX IMAGE SIGNAL[With navigation system]	J 0	Ħ	Y RGB (B:BLUE) SIG	$\dashv$	œ	SHELD	22 G COMM (DISP->CONT)			Connector No. M65	Connector Name FRONT SQUAWKER LH	TV00FDD	1	E	[ [ S		2 1			Terminal Color Simal Nama [Spanification]	No. of Wire Ogidal Natile Lopecinication I	1 L -[Without BOSE system]	2 B -[Without BOSE system]	
STEM Gonnector No. 1M44	ne	Connector Type TH32FW-NH	医	H.S.	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 32 31 30 29 28 27 26 25 24 29 22 21 20 19 18 17		-a	No. of Wire	2 - 2	3 SHIELD -	4 B	┪	6 SHIELD -	1 1 2 X	2	Т	H	ည	$\perp$		16 L =	-	29 LG -	30 0 -	+	32 V =		Connector No. M49	Connector Name FRONT DISPLAY UNIT	┑	Connector Type THZ4FW=NH				24 23 22 21 20 19 18 17 16 15 14 13		<u></u>	No. of Wire
BOSE AUDIO WITH NAVIGATION SYS	Connector Name COMBINATION METER	Connector Type TH40FW-NH	Œ	HS.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 24 25 26 27 28 29 39 31 32 33 34 35 36 37 38 38 40		<u>a</u>	No. of Wire	2 0 IGN	3 B GROUND		1	SB	9 W SWILL POWER	) _	12 R SELECT SWITCH	>	13 Y ILLUMINATION CONTROL SMTCH (+)[Without automatic drive positioner]	GR ILLUMINATION	BR	18 L AMBIENI SENSOR	. >	21 L CAN-H	22 P CAN-L	+	24 W FUEL LEVEL SENSOR GROUND	G PARKING	A .	æ	۵.	31 V VEHICLE SPEED (8-PULSE) 33 1.0 OB OFF/SBOBTS	2 0	SB SEAT BELT	æ				

JCNWM3171GB



JCNWM3173GB

	ion] WAL.	А
M303 TKOSFGY TKOSF GY  2019 18 17 16 15 14 13	Signal Name [Specification]	В
	No. No. No. No. No. No. No. No. No. No.	С
Connector No. Connector Name Connector Type	Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Colo	D
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BOSE AUDIO WITH NAVIGATION SYSTEM  Somestor No. M.148  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH24FW-NH  Somestor Type TH	Signal Name (Specification)  Pod SOUND SIGNAL LH (+)  Pod SOUND SIGNAL RH (+)  ACC  AN COOM (L)  BATTERY  COMM (Pad-Ned ADAPTER-NPO-0  COMM (Pad-Ned ADAPTER-NPO-0  COMM (Pad-Ned ADAPTER)  ACCESSORY DEFITEY  Pod SOUND SIGNAL LH (+)  Pod SOUND SIGNAL LH (+)  Pod SOUND SIGNAL LH (+)  Pod SOUND SIGNAL LH (+)  Fod SOUND SIGNAL LH (+)  Fod SOUND SIGNAL LH (+)  Fod SOUND SIGNAL LH (+)  NHELD  ACCESSORY DEFECT  Pod SOUND SIGNAL LH (+)  Fod SOUND SIGNAL LH (+)  Fod SOUND SIGNAL LH (+)  SIGNAL LH (+)  Fod SOUND SIGNAL LH (+)  Fod SOUND SIGNAL LH (+)  Fod SOUND SIGNAL LH (+)  SIGNAL LH (+)  Fod SOUND SIGNAL LH (+)  Fod SOUND SIGNAL LH (+)  Fod SOUND SIGNAL LH (+)  Fod SOUND SIGNAL LH (+)	M
AUDIO WITH No. Mr148 Name Pod ADAPTER Type IH24FW-NH  1 2 3 4 5 6 6 13 14 15 16 17 18	MZ64 WIRE 112 11 12 12 12 12 12 12 12 12 12 12 12	AV
BOSE AU Connector No. Connector Type HS.	Connector Name   Color	0
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JCNWM3175GB

## [BOSE AUDIO WITH NAVIGATION]

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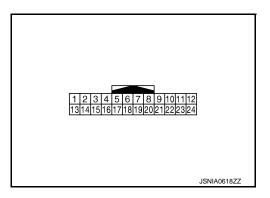
N SYSTEM							ystem]	in system]	
BOSE AUDIO WITH NAVIGATION SYSTEM	R20	MICROPHONE	TK04FW	1234	Signal Name [Specification]	MICROPHONE SIGNAL (+)	SHIELD[With telephone and navigation system.	MICROPHONE SIGNAL (-)[With telephone without navigation system]	MICROPHONE POWER
E AUD	r No.	r Name	r Type		Color of Wire	R/W	SHIELD	R/L	В
BOSE	Connector No.	Connector Name	Connector Type	是 H.S.	Terminal No.	-	2	2	4

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# **IPOD ADAPTER**

Reference Values

**TERMINAL LAYOUT** 



#### PHYSICAL VALUES

	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
1 (BR)	13 (L)	iPod sound signal LH	Output	Ignition switch ON	When iPod mode is selected.	(V) 1 0 -1 + 2ms SKiB3609E
2 (R)	14 (W)	iPod sound signal RH	Output	Ignition switch ON	When iPod mode is selected.	(V) 1 0 -1 + 2ms SKIB3609E
3 (R)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage
4 (L)	_	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**

# [BOSE AUDIO WITH NAVIGATION]

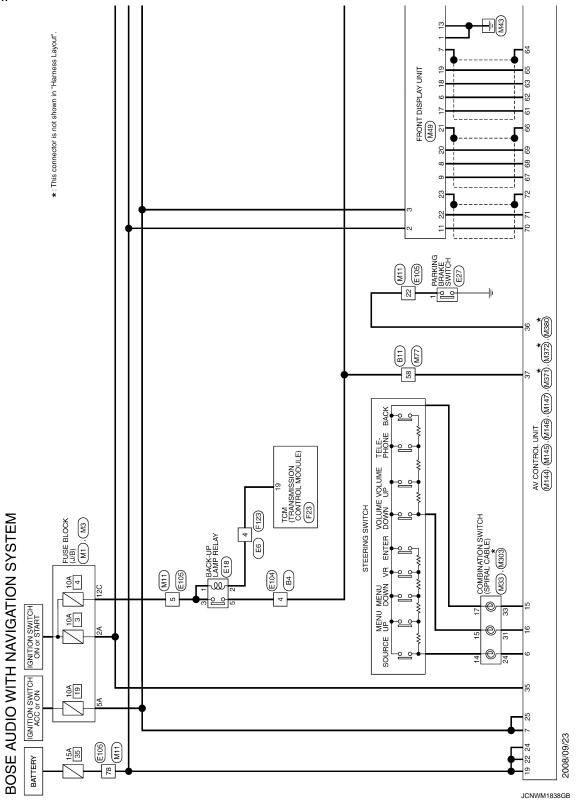
	minal e color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
9 (G)	Ground	Communication signal (iPod adapter→iPod [®] )	Output	Ignition switch ON	The wave pattern is displayed just after iPod connection.	JPNIA0462GB  NOTE:  After the wave pattern display, the value continues Approx 3.3 V
10 (R)	Ground	Communication signal (iPod [®] →iPod adapter)	Input	Ignition switch ON	Connected to iPod [®] .	(V) 3 2 1 0 
11 (R)	Ground	ACCESSORY-IDENTIFY	_	Ignition switch ON	Connected to iPod [®] .	0 V
12 (V)	23 (R)	iPod sound signal RH	Input	Ignition switch ON	When iPod mode is selected.	(V) 1 0 -1 → 2ms SKIB3609E
15	_	Shield	_	_	_	_
16 (R)	_	AV communication signal (H)	Input/ Output	_	_	_
17	Ground	Ground	_	Ignition switch ON	_	0 V
19	_	Shield	_	_	_	_
21 (L)	Ground	iPod connection recognition signal	Input	Ignition switch ON	Not connected to iPod [®] .  Connected to iPod [®] .	4.0 V 0 V
22 (BR)	Ground	ACCESSORY-DETECT	_	Ignition switch ON	Connected to iPod [®] .	0 V
24 (LG)	23 (R)	iPod sound signal LH	Input	Ignition switch ON	When iPod mode is selected.	(V) 1 0 -1 *** 2ms SKIB3609E

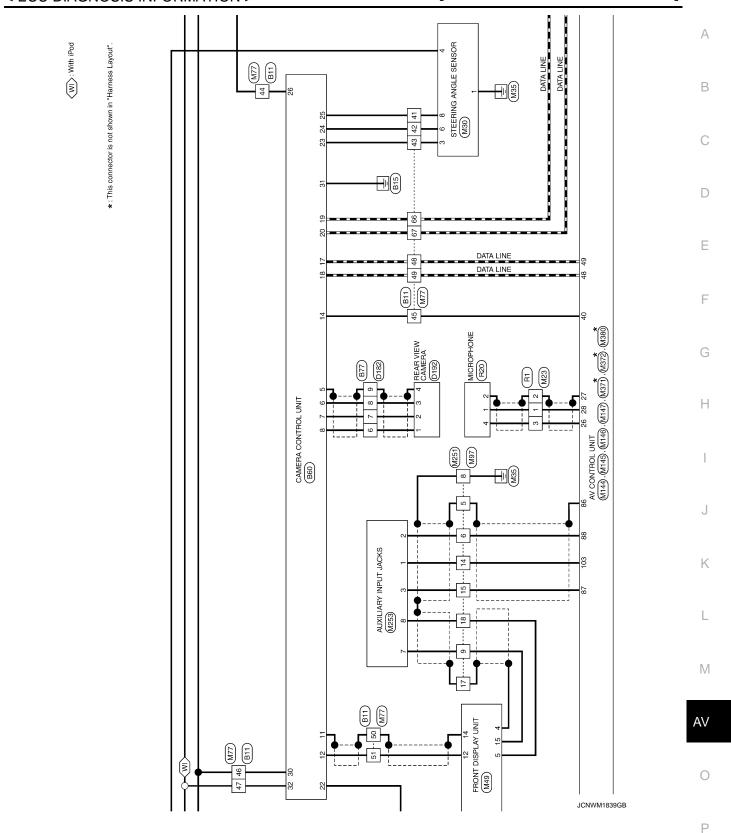
Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM -

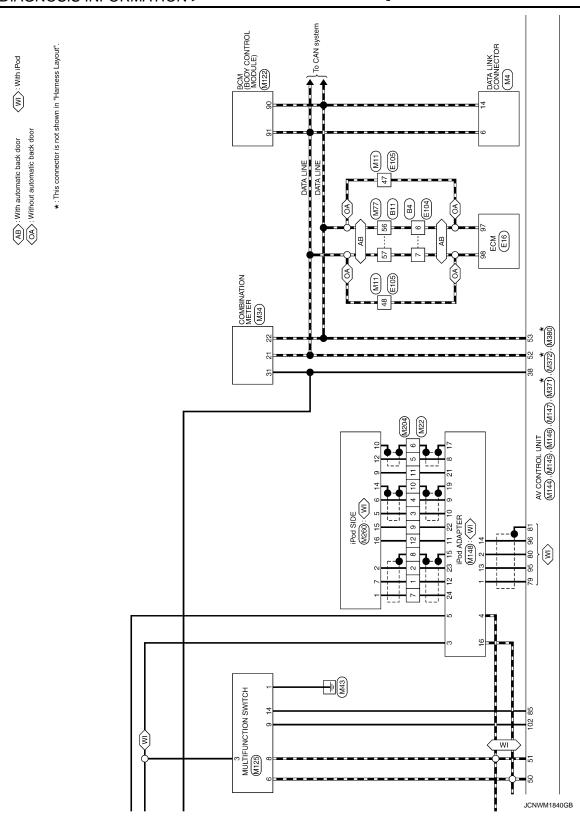
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#### NOTE:

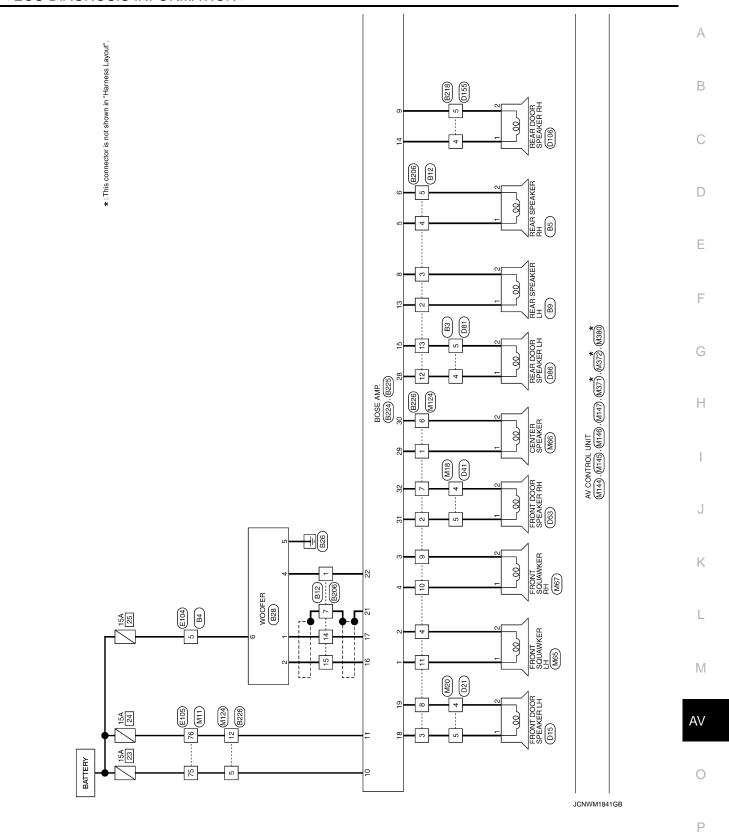
In this section, PRESET SWITCH and MULTIFUNCTION SWITCH are written as the MULTIFUNCTION SWITCH.



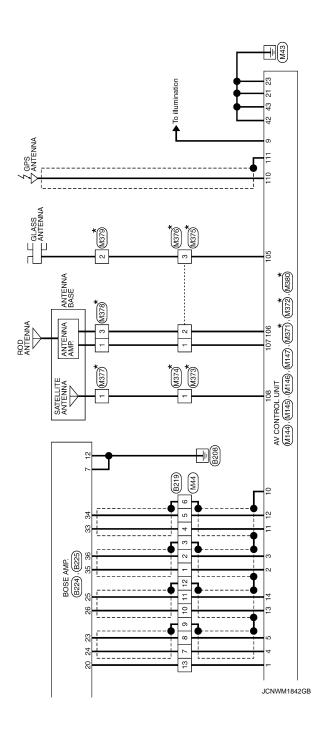




## [BOSE AUDIO WITH NAVIGATION]



★: This connector is not shown in "Harness Layou



	H.S.	Terminal   Color     No.   of Wire   Signal Name [Specification]     1   V   -     2   LG   -	e e	Olor Signal Name [Specification] Off Wire GR
Connee	H.S.	Terminal No.	Connecto Connecto H.S.	No. o
BOSE AUDIO WITH NAVIGATION SYSTEM Connector Name WIRE TO WIRE    12   12   13   14   13   12   11	Signal Name		NS:0AW-CS  1 2 3	Signal Name [Specification]
A A LING.	Color of Wire LG O O LG LG B B	R G > R R G >	r No.	Color of Wire SB W W W W W CO O CO CO CO CO CO CO CO CO CO CO CO C
BOSE AU Connector No. Connector Name Connector Type H.S. [10]	Terminal No. 1 4 4 5 7 7 10 10	11 12 13 17 17 17 18 18	Connector No. Connector Name Connector Type	Terminal No. No. 1 2 2 3 3 3 5 6 6 7 7 7 10

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BOSE	BOSE AUDIO WITH NAVIGATION SY	/STEM	Σ							
Connector N	No. B11		44 B	BR -	96	GR	-	4	W	WOOFER AMP. ON SIGNAL
Connector Mamo	WIDE TO WIDE		45 L	7	97	۳	-	2	B/W	GND
			-	GR –	86	FC	-	9	0	BAT
Connector T	Type TH80MW-CS19		47 \	- ·	66	0	-			
4	0		+	+						
李			+	BR -[With rear view camera without telephone]				Connector No.	Т	
ΕS	8 3 4 3 4 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4	1	49 E0		Connect		312	Connector Name		CAMERA CONTROL UNIT
		1	t		Connect	Connector Name	WIRE TO WIRE	Connector Type	vpe TH32FW-NH	I
	8 X	<u> </u>	╁	- 8	Connect	Connector Type	NS16FW-CS	֓֞֜֞֜֜֜֜֓֓֓֓֓֜֜֜֜֓֓֓֓֓֜֜֜֜֜֟֜֓֓֓֓֓֓֜֜֜֜֜֓֓֓֡֓֜֜֜֜֡֓֜֜֡֓	1	
		上	L	_	ļ			C C		
		L	54 L	T	修			É		
la l	Color	_	55 B	BR -	ŧ	L				
No.	of Wire Signal Name [Specification]	L	56 F	- d	2	_	6 5 4 3 2 1	cul	9 10	16 18 20 22 24 26 28 30
1 S	SHIELD -		1 /5	1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3 5 7 9 11	1 13 15 17 19 21 23 25 27 29 31
2		Ц	58 F	R -		<u> </u>	10 14 10 17 11 10			
3	R/L -			SHIELD -						
4	R/W =		_	В				ā	Color	Simal Name [Specification]
2	SB -		Н	R/L –	Terminal	_	Simpl Nama [Spacification]	No.	of Wire	Olgital Marile Copedingson
9			Н	R/W -	No.	of Wire	Ognal rame topechication	5 S	SHIELD	SHIELD
7	٧ -		Н	LG –	-	Μ	_	9	В	CAMERA IMAGE SIGNAL
8	SHIELD -		_	Υ	2	SB	_	7	R/W	GND
9	BR/L -		66 G	GR -	3	GR	-	89	R/L	CAMERA ON SIGNAL
10	J/A		_	- 5	4	^	-	11	SHIELD	SHIELD
H		_	88 F	1	2	PT	1	12	8	CAMERA IMAGE SIGNAL
12	7/M	_	IHS 69	SHIELD -	7	SHIELD	1	14	7	CONNECTION RECOGNITION
13	- 7	_	/M 0/	W/R -	8	0	1	17	BR	AV COMM (L)
14	BR -	L	┝	B/R -	6	9	1	18	<b>&gt;</b>	AV COMM (H)
_		L	72 7		10	BR	1	19	GR	AV COMM (L)
16		L	L	T	11	۵	1	20	5	AV COMM (H)
17	^	L	74 S	- as	12	PΠ	1	22	œ	REVERSE
18	SB -	L	1 22	- 1	13	0	1	23	9	SENSOR SIGNAL 1
19		L	) 92	- 5	14	W/R	1	24	SB	SENSOR SIGNAL 2
20		L	L		15	B/R	1	25	0	SENSOR SIGNAL 3
H	TG		78 SHIE	SHIELD -				26	BR	VEHICLE SPEED (8-PULSE)
			Н	В				30	GR	ACC
23	Υ -	Ш _	_		Connector No.		B28	31	В	GND
24	GR –	_	_	R _	Popular	Connector Name	WOODEER	32	>	BATTERY
22	Υ .		+	T		T				
+		_	+		Connect	Connector Type	RS06FGY-PR			
+			+		Ą.					
R 2		_	+	ا و	李					
+		_	+	1 28	SH					
+		_	+	1			(2 4 6)			
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+		_	+							
3/	- re		+	9 5		L				
9 ;		_	+		lerminal	Color	Signal Name [Specification]			
<del>+</del> 5		_	+		ġ,		C dilicom introduction			
42	- SB	_	94	> 5	-	W/R	SOUND SIGNAL WOOFER (-)			
43		_	┨	BR -	2	H/H	SOUND SIGNAL WOOFER (+)			

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BOS	E AUI	BOSE AUDIO WITH NAVIGATION SYSTEM	ŀ	ŀ	
Connec	nector No.	877	13 R – 14 W/R –	5 B/R -	
Connec	Connector Name	WIRE 10 WIRE	H	6 SHIELD -	.
Connec	Connector Type	TK12MW		7 GR/V -	Connector Type SCA19FBR-SGA4
售			Connector No. B218	SHIELD	售
H.S.	06	1 2 3 4 5	Name	$\top$	37   36   35   34   33
		6 7 8 9 10 11 12	Connector Type TK10FW-NS8	S	27 26 25 24 23 22 21 20 19 18 17 16 15
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Terminal	al Color	Signal Name [Specification]	766	œ	Terminal Color Signal Name [Specification]
NO.			18 17 16 15 14 13 12 11	18 W	or Wire
2	۵	-		30 P	B/R
в	٦	ı		Н	_
4	> 2	1	Terminal Color Signal Name [Specification]	32 BR –	≥ (
0 1	1/A				19 B SOUND SIGNAL FRONT DOOR SPEAKER LH (=)
ω	<u>_</u>	1	4 L -[With BOSE system]	Connector No. B224	SHIELD
6	SHIELD	-	0	Connector Name BOSE AMP.	М
2 ;	≥ (	-	5 0 -[With BOSE system]	Т	W/L
12	>			ector ighe	W/L
			10 B –	· · · · · · · · · · · · · · · · · · ·	26 GR/V SOUND SIGNAL REAR RH (+)
			<b>&gt;</b>		ŋ
Connector No.	tor No.	B206	o :	14 13 12 11 10	> 0
Connec	Connector Name	WIRE TO WIRE	13 V	987654321	30 P SOUND SIGNAL CENTER SPEAKER (=) 31 BR SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
Connec	Connector Type	NS16MW-CS	SB		<b>&gt;</b>
4			17 R -		33 W/R SOUND SIGNAL FRONT RH (+)
李			$\dashv$	Terminal Color Signal Name [Specification]	B/R
H.S.		1 2 3 4 5 6 7		97	B/R
	<u>1~</u>	10 11 12 13 14	Connector No. B219	>	
		01 11 01 21 11 01 0	Connector Name WIRE TO WIRE	3 L SOUND SIGNAL FRONT SQUAWKER RH (=)	
			Connector Type TH32MW-NH	\ -	
Terminal	al Color	Signal Name [Specification]	đ	SOUND SIGNAL F	
Š,			THE	+	
- 04	≥ සි			8 BK SOUND SIGNAL REAK SPEAKER LH (-) 9 O SOUND SIGNAL REAR DOOR SPEAKER RH (-)	
e	BB	-	5 6 7 8 9 10 11 12 13 14 15	SB	
4	<b>X</b>	i	[17] 18[19[20]21[22[23]24[25[26]27[28[29]30]31[32]	GR	
3	HH.	1		<u>в</u>	
- 0	SHELD		rolos	13 GR SOUND SIGNAL REAR SPEARER LH (+)	
5 5	3	1	No. of Wire Signal Name [Specification]	,	
10	>	1	$\mathbf{L}$		
= 5	م د	-	2 B/R –		
12	5		3 SHIELD -		
J					
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Connector No. B226	Conn	Connector No.	D21	23	٦	-[With automatic drive positioner]	Connector No.	D53	
Connector Name WIRE TO WIRE	Conn	Connector Name	WIRE TO WIRE	54	SB P	-[Without automatic drive positioner] -[With automatic drive positioner]	Connector Name	FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM)	
Connector Type NS12MBR-CS	Conn	Connector Type	TH40FW-CS15	54	LG	-[Without automatic drive positioner]	Connector Type	NS02FBR-CS	
Œ	Œ			55 55	O C	-[With automatic drive positioner] -[Without automatic drive positioner]	Œ		
1 2 3	7	H.S. 15 14		Connector No.	or No.	D41	H.S.		
21110188719		959	55 54 58 52 51 59 48 47 25 54 38 32 51 30 29 28 27	Connect	Connector Name	WIRE TO WIRE		[2]	
				Connect	Connector Type	TH40FW-CS15			
Terminal Color Signal Name [Specification]	Terminal No.	inal Color of Wire	Signal Name [Specification]	Œ			Terminal Color No. of Wire	Signal Name [Specification]	
- ·	-	Н	-		$\mathbb{C}$		T	1	
2 BR –	2	Н	-	4		3 7 6 5	2 B	-	
M > M	e	ه ۵			46 45 44 45	46 45 44 43 42 41 40 39 38 37 38 26 29 24 23 22 21 20 19 18 17 16 55 54 58 55 51 50 49 48 47 35 54 33 32 31 30 29 28 27			
> 03	-   "	+					Connector No	100	
nn a	0 6	≥ a					Collifector No.	100	
>	7	╀		Terminal	Color		Connector Name	WIRE TO WIRE	
8 8	80	F	1	No.	_	Signal Name [Specification]	Connector Type	TK10MW-NS8	
- T 6	6	GR	1	-	g	1	4		
10 P -	10	^	-	2	^	_	· · · · · · · · · · · · · · · · · · ·		
LG	Ξ	0	-	4	В	_	TI ST		
12 GR –	14	$\dashv$	1	S	W	1	1 2	3 4 5 6 7 8 9 10	
	15	$\dashv$	1	9	a.	1	Ŧ	4 -	
ſ	16	4	1	7	0	1	]	2 2 2	
Connector No. D15	17	+	1	8	В	1			
Connector Name FRONT DOOR SPEAKER LH (WITH BOSE SYSTEM)	18	+		16	<b>5</b>	1	ŀ		
	18	+		17	>	ı	e.	Signal Name [Specification]	
Connector Type NS02FBR-CS	20	+	-	2 2	g g	1	No. of Wire	,	
₫.	74	+	-	6	ž Š	I	+	1	
まず	GZ 52	+	1	2 2	5 5	1	4 4	1	
ES.	07			47	2 3		2		
<u></u> 引	30	Ŧ		96	: 0	1	2 8	1	
2 1	8 8	╁		2 62	>	1	+	1	
	32	╁		8	. g		12 G	1	
	33	H	1	31	BR	1	13	1	
Terminal Color Signal Magazine	34	<b>≻</b>	1	32	۳	1	14 P	1	
	32	٦ - د	_	33	g	-	15 SB	-	
1 W	41	Н	-	34	Υ	_	Н	-	
2 B –	42	GR	1	32	٦	1	18 GR	1	
	43	+	1						
	44	+							
	£ :	+							
	94 6	×   >							
	5 4	+							
	in in		- Daren contract of the						
	26 2	+	-[With automatic drive positioner]						
	70	_	-[Without automatic drive positioner]						

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81 BR AVCCI-APSI 85 Y ASOD SW 85 SB ASOD SW 87 AVCC2-APSZ 88 O RANCC2-APSZ 89 GR AVCC2-APSZ 89 GR TACHOICABNV 95 Y P P VEHCAN-L 100 G GWD 101 SB GNOA-APSZ 102 R GNOA-APSZ 103 W GOACV 109 W GOACV 109 W GOACV 110 G GWD 111 B GWD 112 B GNO 112 B GNO 113 B GNO 114 B GNO 115 B GNO 116 G BNOSW 117 B GNO 118 G GNO 119 W GOACV 119 W GOACV 110 G BNOSPI 111 B GNO 112 B GNO 113 B GNO 114 G GNO 115 B GNO 115 B GNO 116 G BNOSPI 117 B GNO 118 GNO 119 W GOACV 119 W GOACV 110 G GNO 111 B GNO 111 G G BNOSPI 111 B GNO 112 B GNO 113 B GNO 114 G GNO 115 B GNO 115 B GNO 116 GNO 117 GNO 118 GNO 119 GNO 119 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 GNO 110 G	A B C
Torminal   Color   Name   Specification   Name   Specification   Name   Specification   Name   Specification   Name   Specification   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name	E F G
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BOSE AUDIO WITH NAVIGATION SYSTEM	M AV

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BOSE AUDIO WITH NAVIGATION SYS	STEM									
Connector No. E27	Connector No.	No. E105		67	BR	1	59	8/0	S/M-B	
HOTENS BY AGG ONLYGAG	-	TOWN OT SOME		89	Υ	Í	30	G/R	S/M-A	
	Colliector			69	SB	1	31	Ь	CAN-L	
Connector Type P01FB-A	Connector Type	Type TH70MW-CS10-M3	-M3	70	GR	1	32	7	CAN-H	
ú	(			7.1	SB	1	33	57	PRI SPEED SENSOR	
	E	]		72	>	П	34	LG/R	SEC SPEED SENSOR	
0 =	Ě	q	4	73	_	П	37	V/R	L/U&SEL-ON/OFF SOL	
	Ż	111		74	*	П	38	M/T	L/U&SEL LINEAR SOL	
<u>l-</u>		불흡	ř:	75	BR	1	38	M/B	SEC-LINEAR SOL	
]		10 c	# R	9/	GR	1	40	₽Ÿ	PL LINEAR SOL	
		z	z.	77	0	1	45	В	GND	
		Γ		78	>	1	46	>-	VIGN	
ial Color	Terminal		2	79	>-	1	47	η,	BATT	
No. of Wire Signal Name [Specification]	No.	of Wire	olgnai Name [opecinication]	80	œ	1	48	<b>&gt;</b>	VIGN	
1 P	2	BR	1	81	W	-				
	3	γ	1	82	ΓC	ı				
	4	W		83	0	-	Connector No.		F123	
Connector No. E104	2	97	ı					Г	HOW OF HOM	
	9	GR	1						MAL I O MINE	
Connector Name WIRE TO WIRE	80	5	ı	Connector No.	or No.	F23	Connector Type	Г	TK16FGY-1V	
Connector Type NS16FW-CS	11	Ь	1	400000	Nomotor Nomo	(3 HIGON LOGINGO NOISSINGNAGE) HOT	4	_		
ú	12	7	1		o walle	ON (TONICS SOURCE MODEL)	修			
	13	λ.	1	Connect	Connector Type	RH40FB-RZ8-L-RH	1	Į		
	41	0					2 E	_	901	
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ر د	2 6	á >		手				16	15 14 13 12 11 10 9 8	
16 15 14 13 12 11 10 9 8	22	- 88		H.S.	9	33 34 35 36 37 38 39 40 47		IJ		
	200	á			2	23 24 25 26 27 28 29 30 45				
	23		ı		= -	13 14 15 16 17 18 19 20 43	Terminal	Color		
Color	27 62		1		₫	2 3 4 5 6 7 8 9 10 41 42	Ž	of Wire	Signal Name [Specification]	
No of Wire Signal Name [Specification]	25	ء د					-	-		
	96			Tomoino	, olo		۰,	9,0		
- 80 - 6	0.7	p >	1	S	_	Signal Name [Specification]	9	2 (a)	1	
G -	, ,	. 5		-	9	THII SIM S	r u	3		
	07	go a	i	- <	0 /2	Z WZ LIMI	0	٤ -	n	
+	67	A :		7 .	7/2	S WS TIVI	۰	١,١		
1	30	<b>*</b>	1	n	0/5	INH SW 4	20	2	_	
- d	47	Ь	1	4	GR.	INH SW 3 MON	10	4/Β	Í	
7 L –	48	٦	=	2	В	GND	Ξ	BR/W	=	
8 B/W –	49	SB	_	7	Μ	SENSOR GND	12	BR	=	
- BS 6	20	GR	1	8	M/D	CLOCK (SEL2)	13	5	-	
10 GR -	51	T.G	1	6	L/R	CHIP SELECT (SEL1)	14	В	-	
	25	^	1	10	BR/R	DATA I/O (SEL3)	15	0	1	
12 W -	23	GR	1	Ξ	BR/W	INH SW 1				
13 P	54	BR	1	13	>	ATF TEMP SENSOR				
14 V =	22	<b>*</b>	ı	14	R/W	PRI PRESS SENSOR				
15 Y	26	M/L	1	12	M/A	SEC PRESS SENSOR				
1 91	09	^	1	19	g/B	REV LAMP RELAY				
	19	BR.	1	20	R/B	STARTER RELAY				
	62	0	ı	25	W/R	SENSOR GND				
	63	0/1	1	26	9	SENSOR POWER SOURCE(5V)				
	T	SHIELD	1	27	R/G	S/M-D				
	99	м	I	28	œ	S/M-C				

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WIRE	A B
WIRE TO WIRE	С
Connector No.   Connector No.   Connector No.   Connector Name   Connector Name   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connector Type   Connect	D
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24 25 26 27 28 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29	Н
M4  B016FW  B106FW    Signal Name [Specification]	l J
Connector Name   DATA LINK CO	К
	L
Connector Name   Color	M
NSOGFW-M2   NSOGFW-M2   NSOGFW-M2   NSOGFW-M2   NSOGFW-M2   NSOGFW-M2   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOGFW-M3   NSOG	AV
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BOSE /	BOSE AUDIO WITH NAVIGATION SY	YSTEM		
Connector No.	4o. M20	٦	-[With telephone without navigation system]	
Connector Name	lame WIRE TO WIRE	> 9	- 8	-[With audio steering si
L		+	4 SHIELD = 25	a 6
	ype Intomiv colo	55 SB -[With automatic drive positioner]	4 >-	G -[With audio steering switch and telephone]
(F		- 0	8 Y = 31	Ħ
<u> </u>	000000000000000000000000000000000000000		- B	
	8 3 4 5 6 7 6 9 10 11 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Connector No M22	10 7	-[With audio steering switch and telephone]
	27222930313233435 47484950515255455	1		т
J		Connector Name WIRE 10 WIRE	88	
L		Connector Type TH12FW-NH	+	
Terminal C No. of	Color Signal Name [Specification]		16 R = _	
T	- ^			
2	- 5	-	Connector No. M30	
3	- M	2	Connector Name STEERING ANGLE SENSOR	
4		12 11 10 9 8 7	┪	
2			Connector Type TH08FW-NH	
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+	as a	10 SHIELD	]	
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╁	: a	T	t	
-		Connector No. M23	1	
		CH LICEN		
32	- M	Connector Name WIRE 10 WIRE	Connector No. M33	
33	- d	Connector Type TH16MW-NH	COMBINATION SWITCH (Spidal Cable)	
_	- BS	d	П	
$\dashv$	- ·	医	Connector Type TK08FGY-1V	
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44	- -	9 10 11 12 13 14 15 16	24 25 26	
45	- L		07 07	
46	I .		31 32 33 34	
20		la		
+	4	Te.		
52	GR -[With automatic drive positioner]	× 1	Terminal Color Signal Name [Specification]	
$\exists$	H -[Without automatic drive positioner]	2 SHIELD -[With telephone and navigation system]	or wire	

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Signal Name [Specification]	АВ
Connector No. M66  Connector Name CENTER SPEAKER  Connector Type TK02FBR  Terminal Color Signal Name [S Name 18]  Connector Name FRONT SOJAWKER RH  Connector Name FRONT SOJAWKER RH  Connector Name FRONT SOJAWKER RH  Connector Type TK02FBR  Terminal Color Signal Name [S Name 18]  Terminal Color Signal Name [S Name 18]  Terminal Color Signal Name [S Name 18]  Terminal Color Signal Name [S Name 18]  Terminal Color Signal Name [S Name 18]  Terminal Color Signal Name [S Name 18]	C
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INVERTIRE VOCIMINA in average tion system]   ACQIWith navigation system]   ACQIWITH navigation system]   SIGNAL VOCIWITH navigation system]   Comba-Stiff LiD (With navigation system]   Comba-Stiff LiD (With navigation system]   ALX Macker Stiff Stiff Stiff Stiff Stiff Stiff Stiff National navigation system]   SHELD (Without navigation system]   SHELD (Without navigation system]   HPD Without navigation system]   HPD Without navigation system]   HPD Without navigation system]   SHELD (Without navigation system]   HPD Without navigation system]   SHELD (Without swigation system]   SHELD (Without navigation system]   SHELD (Without navigation system]   SHELD (With navigation system]   SHELD (With navigation system]   SHELD (With navigation system]   SHELD (SIGNAL) (With navigation system]   SHELD (With Signal) (Without navigation system]   Composite Signal (Without BOSE system]   SHELD (Without BOSE system]   SHELD   Signal (Without BOSE system]   -{Without	F
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NHH  10 9 8 7 6 5 4 3 2 1  Signal Name [Specification]  Signal Name [Specification]  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND  CAND	I
No. MA44 Name WIRE TO WIRE  1432   110   9   8   7   6   6   6   6   6   6   6   6   6	J
Connector No.   M44	К
S   S	L
Commercior Name	M
No.   MA3   Name   COMBINATION METER	AV
Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Conn	
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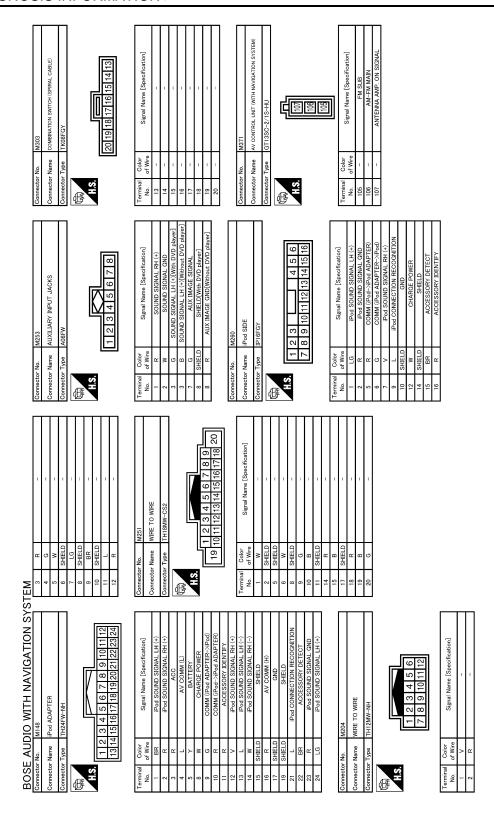
Revision: 2009 September AV-745 2010 Murano

AUDIO WITH NAVIGATION SY	STEM	[:		ŀ		_	-	
Connector No. M//	44	+	1	+	ı	7/	я :	ROOM AN I 2-
Connector Name WIRE TO WIRE	45	a a	1	96 04	1 1	73	≥ >	ROOM ANT2+
Connector Type TH80FW-CS19	47	╀		3 - 88	1	, K		DASSENGER DOOR ANT+
1	48	-	1	╁	1	2 92	3 >	DRIVER DOOR ANT-
	49	5	1			77	۵	DRIVER DOOR ANT+
	20	SHIELD	- O			80	SB	IMMOBI ANTENNA CONTROL
1   1   1   1   1   1   1   1   1   1	51	-	-	Connector No.	M97	81	0	IMMOBI ANTENNA SIGNAL
	25	В	-	Connector Name	AIM OT HIM	82	BR	IGN RELAY (F/B) CONT
2 2 2 3 2 3 2 3	23	æ	1	П		83	۵	KEYLESS ENTRY RECEIVER SIGNAL
	54	В	1	Connector Type	TH18FW-CS2	87	œ	COMBI SW INPUT 5
	92	+	I	q		88	æ	COMBI SW INPUT 3
Г	26	۵	ı	季		88	æ	PUSH SW
	22	$\dashv$	1	SIIV	7	06	۵	CAN-L
SHIELD	28	7	1	֓֞֜֞֜֝֓֜֝֡֜֝	7	91	_	CAN-H
ω;	29	풄		c	7 5 4 6 7	92	œ (	KEY SLOT ILL
3 (	3 3	+		2 2	1817/1615141312110	28	<u>.</u>	ONI NO
r	9	+				69	-	ACC RELAY CONI
λ.	62	+	1	ŀ		96	>	CVT SHIFT SELECTOR POWER SUPPLY
	63	0	ı	-a	Signal Name [Specification]	97	0	S/L CONDITION 1
	64	<b>≻</b>	1	No. of Wire	From Section 1	86	٦	S/L CONDITION 2
8 SHIELD -	99	_	1	. W	1	66	>	SHIFT P
- M 6	67	œ		2 SHIELD	_	100	۵	PASSENGER DOOR REQUEST SW
10 R -	89	П	-	5 SHIELD	_	101	М	DRIVER DOOR REQUEST SW
	69	SHIELD		M 9	_	102	Υ	BLOWER FAN MOTOR RELAY CONT
	70	٦	-	8 8	-	103	Т	KEYLESS ENTRY RECEIVER POWER SUPPLY
	71	œ	1	. A	-	106	Υ	S/L POWER SUPPLY
14 R -	72	97	-	10 B	1	107	0	COMBI SW INPUT 1
15 SB –	73	Υ.	-	11 B	-	108	Д	COMBI SW INPUT 4
16 R –	74	~	1	14 R	1	109	SB	COMBI SW INPUT 2
- v 17	75	۵	1	15 B	Ì	110	5	HAZARD SW
	76	7	1	17 SHIELD	1	Ξ	ΓC	S/L COMM
۵	77	BR	1	18 B	-[With navigation system]			
20 LG -	78	SHIELD	- Q	18 BR	-[Without navigation system]			
<b>&gt;</b>	79	В	1		1			
22 0 –	80	_	1	_	-			
23 LG -	81	LG	-					
24 SB –	82	٦	-					
25 Y –	83	W	-[With automatic drive positioner]	Connector No.	M122			
27 Y –	83	GR	-[With driver side power seat]	Connector Name	BOM (BODY CONTED! MODILIE)			
28 R –	84	~	1		COM (COD) MODOCE)			
<b>&gt;</b>	82	>	-[With front heated seat and passenger side power seat]	Connector Type	TH40FB-NH			
*	82	GR.	Г					
BR	98	┞	Г	Œ				
>	87	~	1	Š				
35 SHIELD -	88	5	1	2	7			
36 G –	88	В		91 90 89 88				
$\exists$	90	Н	1	110000000000000000000000000000000000000	18/10/106/105/104/103/102/101/101/39/38/37/36/35/34/33/32			
40 0 -	91	$\dashv$	1					
$\dashv$	92	$\exists$						
42 SB –	93	۵	1	Terminal Color	Simal Name Specification			
	94	>	1	No. of Wire	Olgiai ivaliie Lopeoliloauoru			

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N SYSTEM)    100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	А
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Connector No.   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Conne	D
E GND  SE SIGNAL  NA  NA  NA  NA  NA  NA  NA  NA  NA	Е
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M144   M144   M144   M144   M144   M145   M145   M145   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146   M146	J
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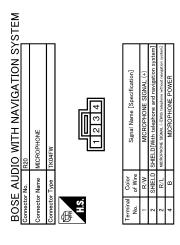
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Revision: 2009 September AV-749 2010 Murano



JCNWM3176GB

### **CAMERA CONTROL UNIT**

## [BOSE AUDIO WITH NAVIGATION]

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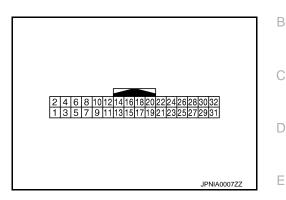
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## **CAMERA CONTROL UNIT**

Reference Values

**TERMINAL LAYOUT** 



#### PHYSICAL VALUES

	minal color)	Description			O and distant	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
5	_	Shield	_		_	_
6 (B)	Ground	Camera image signal	Input	Ignition switch ON	when rear view camera image is displayed.	(V) 0. 4 0 -0. 4 + 40μs SKIB2251J
7 (R/W)	Ground	Rear view camera ground	_	Ignition switch ON	_	0 V
8				Ignition	R position.	6.0 V
(R/L)	Ground	Camera ON signal	Output	switch ON	Other than R position.	0 V
11	Ground	Shield (camera image ground	_	Ignition switch ON	_	0 V
12 (B)	11	Camera image signal	Output	Ignition switch ON	when rear view camera image is displayed.	(V) 0. 4 0 -0. 4 -40μs SKIB2251J
14	Ground	Camera-connection recog-	Output	Ignition switch	Connected to camera control unit connector.	0 V
(L)		nition signal		ON	Not connected to camera control unit connector.	5.0 V
17 (BR)	_	AV communication signal (L)	Input/ Output	_	_	_
18 (Y)	_	AV communication signal (H)	Input/ Output	_	_	_

## **CAMERA CONTROL UNIT**

### < ECU DIAGNOSIS INFORMATION >

## [BOSE AUDIO WITH NAVIGATION]

	minal color)	Description			O an aliting	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
19 (GR)	_	AV communication signal (L)	Input/ Output	_	_	_
20 (G)	_	AV communication signal (H)	Input/ Output	_	_	_
22 (R)	Ground	Reverse signal	Input	Ignition switch	R position.  Other than R position.	12.0 V 0 V
23	Ground	Sensor signal 1	Input	ON  Ignition switch	Turn the steering to the right.	(V) 4 2 0 8 SKIB3827E A: Sensor signal 1 B: Sensor signal 2
(G)	Glound	Sensor signal 1	input	ON	Turn the steering to the left.	A: Sensor signal 1 B: Sensor signal 2
24			Input	Ignition switch	Turn the steering to the right.	A: Sensor signal 1 B: Sensor signal 2
(SB)	Ground	Sensor signal 2	при	ON	Turn the steering to the left.	(V) 4 2 4 2 0 SKIB3828E  A: Sensor signal 1 B: Sensor signal 2

# **CAMERA CONTROL UNIT**

#### < ECU DIAGNOSIS INFORMATION >

## [BOSE AUDIO WITH NAVIGATION]

	minal color)	Description			Condition	Reference value
+	_	Signal name	Input/ Output		Condition	(Approx.)
25 (O)	Ground	Sensor signal 3	Input	Ignition switch ON	Turn the steering around the neutral position.	A: Sensor signal 3 B: Sensor signal 1
26 (BR)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is approx. 40 km/h (25 MPH).	NOTE:  Maximum voltage may be 12 V due to specifications (connected units).  (V) 6 4 2 0  **20ms  SKIA6649J
30 (GR)	Ground	ACC power supply	Input	Ignition switch ACC	_	Battery voltage
31 (B)	Ground	Ground	_	Ignition switch ON	_	0 V
32 (V)	Ground	Battery power supply	Input	Ignition switch OFF	_	Battery voltage

Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM -

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NOTE:

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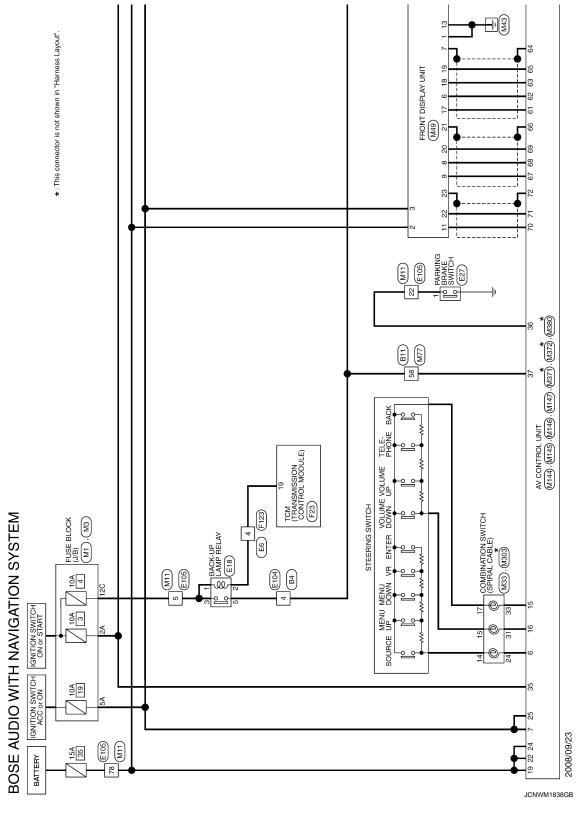
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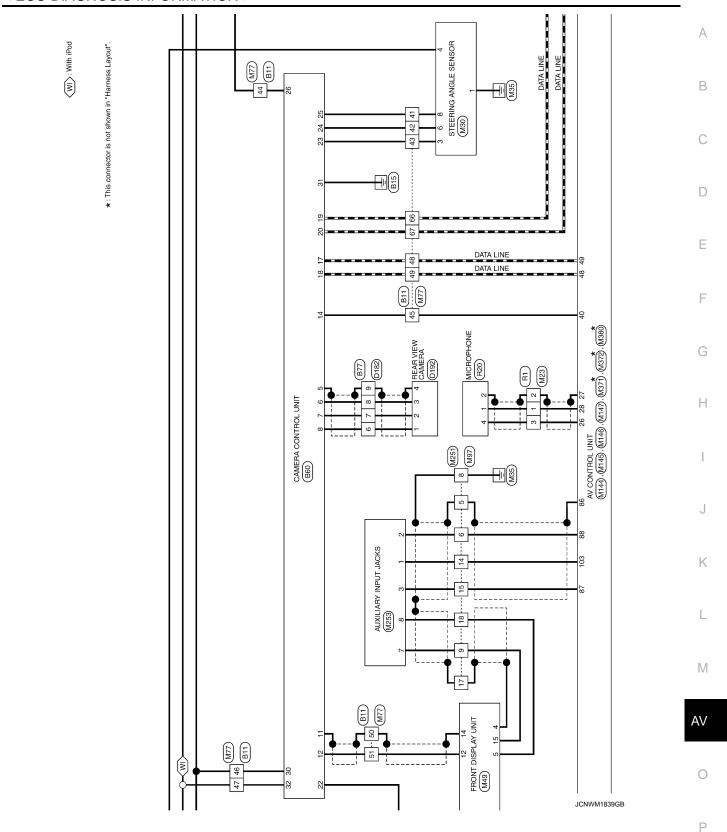
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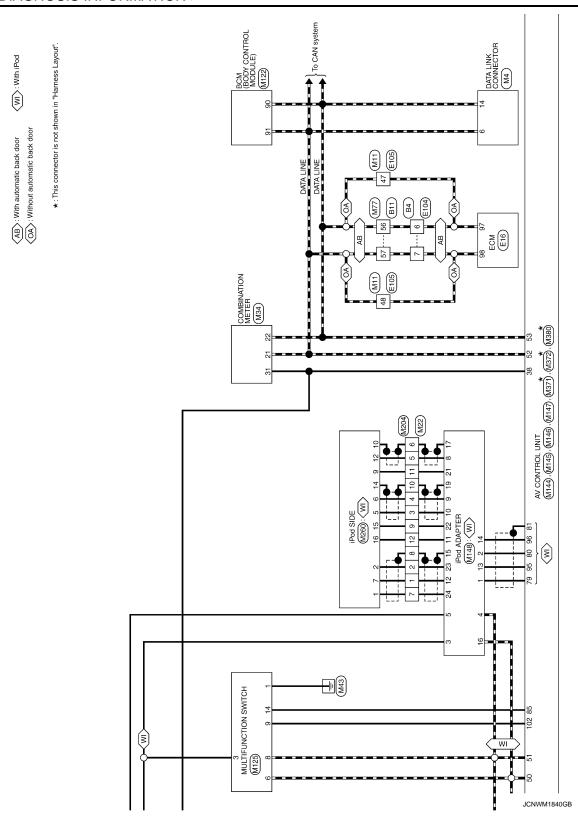
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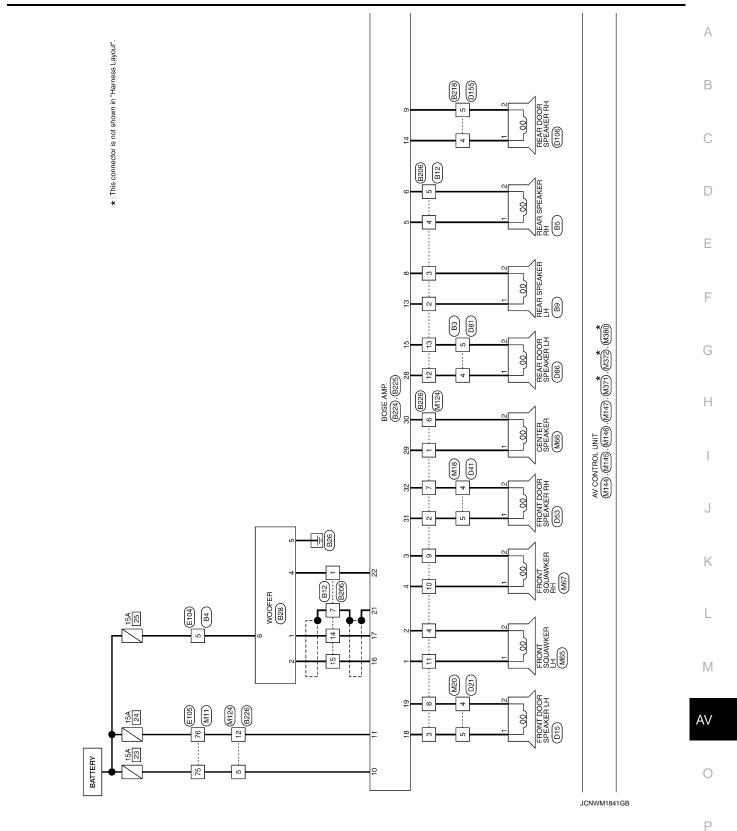
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In this section, PRESET SWITCH and MULTIFUNCTION SWITCH are written as the MULTIFUNCTION SWITCH.

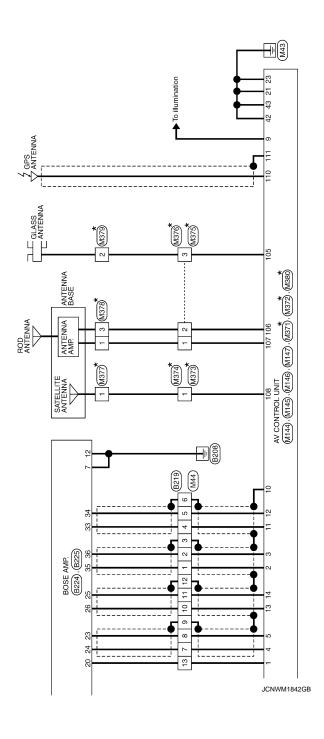








r: This connector is not shown in "Harness Layout'



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TEM  11 L	Connector Type TKOZFBR	olor Nire	Connector Name REAR SPEAKER LH Connector Type TRQ2FBR  TRQ2FBR  TRY2FBR  Terminal Color No. of Wave Signal Name [Specification]	<del>+    </del>
BOSE AUDIO WITH NAVIGATION SYSTEM   Connector No.   B3   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   11   13   12   13   13	nal of C	11 SB	Connector No. B4  Connector Name WIRE TO WIRE  Connector Type INSIGNW-CS  H.S. 1 2 3 14 5 6 7  B 9 10 11 12 13 14 15 16	No. of Wire   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   SB   SB   SB   SB   SB   SB   SB   S

JCNWM3163GB

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BOSE	BOSE AUDIO WITH NAVIGATION SY	/STEM	Σ							
Connector N	No. B11		44 B	BR -	96	GR	-	4	W	WOOFER AMP. ON SIGNAL
Connector Mamo	WIDE TO WIDE		45 L	7	97	۳	-	2	B/W	GND
			-	GR –	86	FC	-	9	0	BAT
Connector Ty	Type TH80MW-CS19		47 \	- ·	66	0	-			
4	0		+	+						
李			+	BR -[With rear view camera without telephone]				Connector No.	Т	
ΕS	8 3 4 3 4 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4	1	49 E0		Connect		312	Connector Name		CAMERA CONTROL UNIT
		1	t		Connect	Connector Name	WIRE TO WIRE	Connector Type	vpe TH32FW-NH	I
	8 X	<u> </u>	╁	- 8	Connect	Connector Type	NS16FW-CS	֓֞֜֞֜֜֜֜֓֓֓֓֓֜֜֜֜֜֓֓֓֓֓֜֜֜֟֜֜֓֓֓֓֓֓֜֜֜֜֜֓֓֓֓֡֓֜֜֜֡֓֜֡֓֜֡֡֡֡֓	1	
		上	L	_	ļ			C C		
		L	54 L	T	修			É		
la l	Color	_	55 B	BR -	ŧ	L				
No.	of Wire Signal Name [Specification]	L	56 F	- d	2	_	6 5 4 3 2 1	cul	9 10	16 18 20 22 24 26 28 30
1 S	SHIELD -		1 /5	1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_	3 5 7 9 11	1 13 15 17 19 21 23 25 27 29 31
2		Ц	58 F	R -		<u> </u>	10 14 10 17 11 10			
3	R/L -			SHIELD -						
4	R/W =		_	В				ā	Color	Simal Name [Specification]
2	SB -		Н	R/L -	Terminal	_	Simpl Nama [Spacification]	No.	of Wire	Olgital Ivalie Copcolication
9			Н	R/W -	No.	of Wire	Ognal rame topechication	5 S	SHIELD	SHIELD
7	٧ -	_	Н	LG –	-	Μ	_	9	В	CAMERA IMAGE SIGNAL
8	SHIELD -		_	Υ	2	SB	_	7	R/W	GND
9	BR/L -		66 G	GR -	3	GR	-	89	R/L	CAMERA ON SIGNAL
10	J/A		_	- 5	4	^	-	11	SHIELD	SHIELD
H		_	88 F	1	2	PT	1	12	8	CAMERA IMAGE SIGNAL
12	7/M	_	IHS 69	SHIELD -	7	SHIELD	1	14	7	CONNECTION RECOGNITION
13	- 7	_	/M 0/	W/R -	8	0	1	17	BR	AV COMM (L)
14	BR -	L	┝	B/R -	6	9	1	18	<b>&gt;</b>	AV COMM (H)
_		L	72 7	- ×	10	BR	1	19	GR	AV COMM (L)
16		L	L	T	11	۵	1	20	5	AV COMM (H)
17	^	L	74 S	- as	12	PΠ	1	22	œ	REVERSE
18	SB -	L	1 22	- 1	13	0	1	23	9	SENSOR SIGNAL 1
19		L	) 92	- 5	14	W/R	1	24	SB	SENSOR SIGNAL 2
20		L	L		15	B/R	1	25	0	SENSOR SIGNAL 3
H	TG	Ц	78 SHIE	SHIELD -				26	BR	VEHICLE SPEED (8-PULSE)
			Н	В				30	GR	ACC
23	Υ -	Ш _	_		Connector No.		B28	31	В	GND
24	GR –	_	_	R _	Popular	Connector Name	WOODEER	32	>	BATTERY
22	Υ .		+	T		T				
+		_	+		Connect	Connector Type	RS06FGY-PR			
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R 2		_	+	ا و	李					
+		_	+	1 28	SH					
+		_	+	1			(2 4 6)			
+		_	+				1 2 5			
†			+	GR						
+		_	+							
3/	- re		+	9 5		L				
9 ;		_	+		l erminal	Color	Signal Name [Specification]			
<del>+</del> 5		_	+		ġ,		C dilicom introduction			
42	- SB	_	94	> 8	-	W/R	SOUND SIGNAL WOOFER (-)			
43		_	┨	BR -	2	H/H	SOUND SIGNAL WOOFER (+)			

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$\Box$	13 R	4 W/R 5 B/R - 6 SHIELD	
H.S. TK12MW 1 1 2 3 4 5 6 7 8 9 10 11 12	Connector No. B218 Connector Name WIRE TO WIRE Connector Type TK(IDFW-NSS	8 W/L 9 SHIELD 10 GR/V 11 W/L 12 SHIELD 11 SHIELD 11 SHIELD 11 SHIELD 11 SB 11 SB	Connector Type   SCA19FBR-SGA4
Terminal   Color   No.   Of Wire   Signal Name [Specification]     1   1.05   Color   Color     2   2   2   2   2   2   2     3   2   4   7   2   2   2   2     4   8   2   2   2   2   2     5   8   8   2   2   2   2     10   0   W   Connector Name   WIRE TO WIRE     10   0   W   Connector Type   NS16MW-CS     11   0   0   0   0     1   0   0   0   0     1   0   0   0   0     1   0   0   0   0     1   0   0   0   0     2   0   0   0   0     3   0   0   0   0     4   5   6   7     5   8   8   0   0     6   0   0   0     7   SHELD   Color   Color   Color     8   8   6   0   0     9   0   0   0     10   0   0   0     11   0   0   0     11   0   0   0     12   0   0   0     13   0   0   0     14   0   0   0     15   0   0   0     16   0   0   0     17   0   0   0     18   0   0   0     19   0   0   0     10   0   0   0     11   0   0   0   0     12   0   0   0     12   0   0   0     13   0   0   0     14   0   0   0     15   0   0   0     16   0   0   0     17   0   0   0     18   0   0   0     19   0   0   0     10   0   0   0     10   0   0   0     11   0   0   0     12   0   0   0     13   0   0   0     14   0   0   0     15   0   0   0     16   0   0   0     17   0   0   0     18   0   0   0     19   0   0   0     10   0   0   0     10   0   0   0     11   0   0   0     12   0   0   0     13   0   0   0     14   0   0   0     15   0   0   0     16   0   0   0     17   0   0   0     18   0   0   0     19   0   0   0     10   0   0   0     10   0   0   0     11   0   0   0     12   0   0   0     13   0   0   0     14   0   0   0     15   0   0   0     15   0   0   0     16   0   0   0     17   0   0   0     18   0   0   0     18   0   0   0     19   0   0   0     10   0   0   0     10   0   0   0     10   0   0   0     11   0   0   0     12   0   0   0     13   0   0   0     14   0   0   0     15   0   0   0     15   0   0   0     16   0   0   0     17   0   0   0     18   0   0   0     19   0   0   0     10   0   0   0     10   0   0   0     11   0   0   0     12   0   0   0     13   0   0   0     14   0   0	10   8   7   6   =   5   4   3   2   1		Terminal   Color   Signal Name [Specification]   Color   Signal Name [Specification]   Signal Name [Specification]   Signal Name [Specification]   Signal Name   Source   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name   Signal Name
JCNWM3165GB			

Connector No. DS3 Connector Name FRONT DOOR SPEAKER RH (WITH BOSE SYSTEM) Connector Type INSOZEBR-CS  H.S.  2.1		Connector Name WIRE TO WIRE  Connector Type TK10MW-NS9  12 3 4 5 6 7 8 9 10  11 12 13 14 15 16 17 18	Terminal   Color   Signal Name [Specification]	14 P
53   L	4 4 2 3	Terminal Color   Signal Name [Specification]     No. of Wire   Signal Name [Specification]     1	8   B   B   C   C   C   C   C   C   C   C	32 R
Connector Name WIRE TO WIRE  Connector Name WIRE TO WIRE    TH40FW-CS15	Color   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   V   C   C   C   C   C   C   C   C   C	G G G G G G G G G G G G G G G G G G G		
BOSE AUDIO WITH NAVIGATION SYSTEM   Connector No.	Terminal   Color   Signal Name [Specification]   1	3 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Connector No. D15 Connector Name Frowt Door SPEAKER LH (WITH BOSE SYSTEM) Connector Type NSDZFBR-CS	Terminal   Color   Signal Name   Specification

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AVCCI-APSI  GNDA-APSI  ASOD SIN  ASOD SIN  RINES  AVCC2-APSZ  RINES  GNDA-ASODSW  TACHO(CABIN)  TO SIN SW  TACHO(CABIN)  TO SIN SW  TACHO(CABIN)  TO SIN SW  TACHO(CABIN)  TO SIN SW  TACHO(CABIN)  TO SIN SW  TACHO(CABIN)  GND  GND  GND  GND  GND  GND  GND  G	В
N	С
83 86 86 87 87 87 87 87 87 87 87 87 87 87 100 1100 1	D
Specification]  NN SIGNAL  AGE SIGNAL  ELD  14 15 16  16 7  16 110  106 110  106 110  106 111  108 112  Specification]	Е
Signal Name   CAMERA (CAMERA (	F
O   O   O   O   O   O   O   O   O   O	G
	Н
WIRE  WIRE  Signal Name [Specification]  Signal Name [Specification]	I
D182 WIRE TO WIRE TK12FW  D192 Signal Name Signal Name THO4MW-NH THO4MW-NH	J
1   1   1   1   1   1   1   1   1   1	K
	L
CER LH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE  CER RH WMTH BOSE SIVE	M
AUDIO WITH  Name REAR DOOR SPEAL  Of Wire NSOZFBR-CS  Of Wire NSOZFBR-CS  Of Wire NSOZFBR-CS  Type NSOZFBR-CS  Of Wire NSOZFBR-CS  Type NSOZFBR-CS  Of Wire NSOZFBR-CS  Of Wire NSOZFBR-CS  Of Wire NSOZFBR-CS  Of Wire NSOZFBR-CS  Of Wire NSOZFBR-CS  Of Wire NSOZFBR-CS  Of Wire NSOZFBR-CS  Of Wire NSOZFBR-CS  Of Wire NSOZFBR-CS  Of Wire NSOZFBR-CS  Of Wire NSOZFBR-CS  Of Wire NSOZFBR-CS  Of Wire NSOZFBR-CS  Of Wire NSOZFBR-CS  Of Wire NSOZFBR-CS  Of Wire NSOZFBR-CS  OF Wire NSOZFBR-CS  OF Wire NSOZFBR-CS  OF Wire NSOZFBR-CS  OF Wire NSOZFBR-CS  OF Wire NSOZFBR-CS  OF Wire NSOZFBR-CS  OF Wire NSOZFBR-CS  OF Wire NSOZFBR-CS  OF Wire NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS  OF WIRE NSOZFBR-CS	AV
Connector Name   FEAST	0
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UDIO WITH NAVIGATION SY	STEM	_								
Connector No. E27	Conr	Connector No.	E105	67	BR	1	29	0/B	S/M-B	
Connector Name PARKING BRAKE SWITCH	Con	Connector Name	WIRE TO WIRE	89	>	1	30	G/R	S/M-A	
Т	ļ			69	g ;	1	 	Δ.	CAN-L	
Connector Type P01FB-A	Sol	Connector Type	TH70MW-CS10-M3	70	GR	1	32	7	CAN-H	
á	þ			71	SB	1	33	Pl	PRI SPEED SENSOR	
	[F	7		72	_	-	34	LG/R	SEC SPEED SENSOR	
J. C.	_	Ĕ		73	٦	1	37	N/R	L/U&SEL-ON/OFF SOL	
	•	4	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	74	М	-	38	M/٦	L/U&SEL LINEAR SOL	
-			x :	75	BR	ı	39	8/M	SEC-LINEAR SOL	
3			지 다 지 다 지 다	76	GR	1	40	R/Y	PL LINEAR SOL	
			2	77	0	ī	45	В	GND	
				78	>	1	46	>	VIGN	
Color	Terr	Terminal Color		79	. >		47	. 2	BATT	
No. of Wire Signal Name [Specification]	z	_	Signal Name [Specification]	8	. .		48	; }	NOIA	
	<u> </u> "	t		8 8	3	1				
	ľ	3	1	82	9	1				
	ľ	W W	1	83	0	1	Connector No.	ı	F123	
Connector No. F104	"	2						Γ		
т	1	╁					Connector Name		WIRE TO WIRE	
Connector Name WIRE TO WIRE	1	╀		Connec	Connector No	E93	Connector Type	Т	TK16FGV=1V	
Connector Time NO16 DAL-OS	1	╀						7		
Commercial type INSTORM CS	1	╀		Connec	Connector Name	TCM (TRANSMISSION CONTROL MODULE)	<b>1</b>			
4		1 >		Connec	Connector Type	PH40FB-B78-I -BH	1			
ETT.	-	+			2 1	1 1 2 2 C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AHS.	_		
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7 6 5 4 3 2	-  '	+		華				16	15 14 13 12 11 10 9 8	
16 15 14 13 12 11 10 9 8	۲	7 07		H.S.	31	33 34 35 36 37 38 39 40 47		]]		
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	7	2 5	1		=	13 14 15 16 17 18 19 20 43	ŀ			
	1	+			=	2 3 4 5 6 7 8 9 10 41 42	lerminal	Color Per Mine	Signal Name [Specification]	
Signal Name [Specification]	2 0	+	1		J		Ö,	or wire		
	7	+	1		L		- 4	7 0	ı	
$^{+}$	7	+		lerminal	Color	Signal Name [Specification]	,	¥ (	1	
SB	7	+	I	ON.	or wire		4	G/B	1	
7	2	-	1	-	P/B	INH SW 2	2	œ	ı	
4 R –	2	29 W	1	2	P/L	INH SW 3	9	L/R	1	
5 L	3	30 Y	=	9	0/0	INH SW 4	8	Д	_	
- d 9	4	47 P	1	4	GR	INH SW 3 MON	10	8/X	1	
	4	48 L	1	2	В	QND	Ξ	BR/W	1	
- 8/W	4	49 SB	1	_	3	SENSOB GND	12	BB	1	
: 0	"	ł		. 0	W/ C	OLOCK (SEL 9)	2	ć	1	
9 6	1	╀			3 -	CHID SELECT (SEL 1)	2	, .		
K5 (	7	+		5	2 6	Only Select (Selet)	* ;	٥	1	
+	2	+	1	01	BR/R	DATA I/O (SEL3)	15	0	-	
4	2	$\dashv$	1	Ξ	BR/W	INH SW 1				
4	2	54 BR	1	13	>	ATF TEMP SENSOR				
14	5	55 Y	1	14	R/W	PRI PRESS SENSOR				
15 Y -	2	26 W/L	1	15	W/W	SEC PRESS SENSOR				
7	9	Λ 09	1	19	g/B	REV LAMP RELAY				
	9	61 BR	-	20	R/B	STARTER RELAY				
	ľ	H	1	25	W/R	SENSOR GND				
	g.	F		56	9	SENSOR POWER SOURCE(5V)				
	9	S		27	R/G	S/M-D				
	ľ	W 66		38	2 ~	O-W/S				
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JCNWM3168GB

# **CAMERA CONTROL UNIT**

# [BOSE AUDIO WITH NAVIGATION]

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Nume   WIRE TO WIRE   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15   TH400MV-CS15	С
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M4  BDIGEW  9 [10] 11] [2] 14 [5] 16  1 [2] 3 [4] 5 [6] 7 [8]  NITI  WIRE TO WIRE  THTOFW CSIC-M3  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]	I J
Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Color No.   Colo	К
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Commetter Name   Color	M
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Revision: 2009 September AV-765 2010 Murano

BOSE A	BOSE AUDIO WITH NAVIGATION SYSTEM		ľ	
Connector No.	M20	7	2 R -[With telephone without navigation system]	BR
Connector Nam	Connector Name WIRE TO WIRE	53 V -[Without automatic drive positioner] 54 I.G -[With automatic drive nocitioner]	3 B	24 W –[With audio steering switch without telephone]
Connector Typ.	Connector Type TH40MW-CS15	- 5	П	H
		4	7 × ×	31 G —[With audio steering switch and telephone]
λ. Γ	2 3 4 5 6 7 8 9 10 11 12 13 14 15	  -  -  -	- B S S S S S S S S S S S S S S S S S S	- 88 -
	16 17 18 19 20 21 22 22 42 25 28 19 40 41 42 49 44 45 48 10 20 20 20 20 20 20 20 20 20 20 20 20 20	Connector No. M22	H	SB
		Connector Name WIRE TO WIRE	12 L 13 SB	34 Y ==
- 1		Connector Type TH12FW-NH	Н	
Terminal Col No. of W	Golor Signal Name [Specification]	4	16 R = _	
-	-		- [	
2 8	9 ×	6 5 4 3 2 1	┰	
╁	- 8	11 10 9	Connector Name STEERING ANGLE SENSOR	
2 r		2	Connector Type TH08FW-NH	
9	- ^		ά	
H	BR -	la l	医	
+	0	No. of Wire	<u> </u>	
+	SB	> (		
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15 GI	GR -			
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4		T	re	
18 4		8 SHIELD -	- CC	
+		9 BR -	2 P -	
+	- SB	10 SHIELD -	+	
24 P	a. >	1 2	4 G	
+	- *	-	38 S	
-	- 2		H	
H	_	Connector No. M23		
$\dashv$	SB	Connector Name WIRE TO WIRE		
+		Т	Connector No. M33	
33	1	Connector Lype   I H I 6MW-NH	Connector Name COMBINATION SWITCH (SPIRAL CABLE)	
+		4	Т	
35	x 0	ATT.	Connector Type TRUSHGY-IV	
$^{+}$			<b>1</b>	
ł	-	12345678		
44	-	9 10 11 12 13 14 15 16		
L	1	01 +1 01 71	97	
Н	1		31 32 33 34	
Н	- ^	-ea		
+	4	re		
52 G	GR -[With automatic drive positioner]		Lerminal Golor   Signal Name [Specification]	
4	4	┨	or wire	

JCNWM3170GB

Signal Name [Specification]  Signal Name [Specification]	АВ
Connector Name Connector Name Connector Type Terminal Color No. Connector Name Connector Name Connector Name Terminal Color No.  T	C
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INVERTER VOCIVIMION transigation system]	F
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10   10   10   10   10   10   10   10	K
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Connector Name	M
AUDIO WITH   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.	7.0
Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Connector Name   Conn	0
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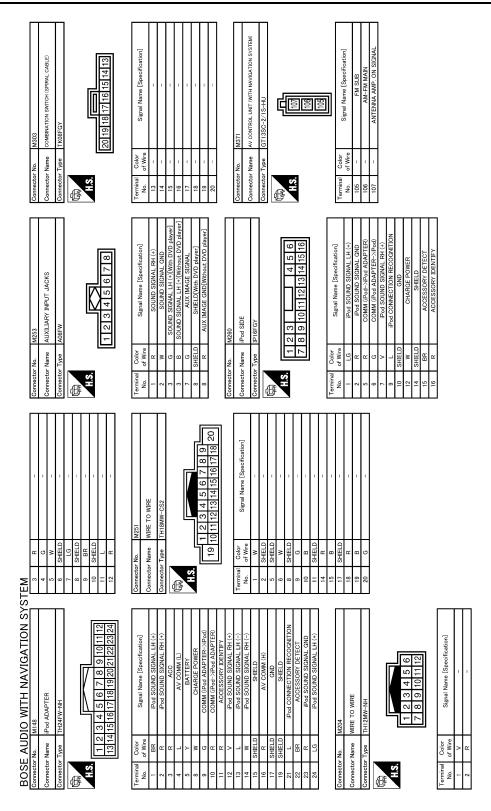
Revision: 2009 September AV-767 2010 Murano

BOSE A	BOSE AUDIO WITH NAVIGATION SY		STEM	5	_		f		DOOM ANTO
Connect	Т			44	O 66		7/ 5	פּ	ROOM AN I 2-
Connector Name	r Name WIRE TO WIRE		Ţ	45	+	T	5/ 4/	* >	PASSENGER DOOR ANT-
Connector Type	r Type TH80FW-CS19		Ľ	47	DT 86 -		75	. _U	PASSENGER DOOR ANT+
	1		Ĺ	48	H		9/	^	DRIVER DOOR ANT-
厚				Н	- 5		7.7	Д	DRIVER DOOR ANT+
				\$	-		80	SB	IMMOBI ANTENNA CONTROL
		1313		$\dashv$	W – Connector No. M97		81	0	IMMOBI ANTENNA SIGNAL
	0   0   0   0   0   0   0   0   0   0	B 2		+	B Connector Name WIRE TO WIRE		85	B.	IGN RELAY (F/B) CONT
	3 S S	c ×	_[	+			88	a. (	KEYLESS ENTRY RECEIVER SIGNAL
			_[	+			8/	× 8	COMBI SW INPUT 5
	-		_[	+			88	¥ 8	COMBI SW INPUT 3
l erminal	Color	Signal Name [Specification]	_[	+	5		8	ž,	WOSH SW
No.	oi wire		_[	+		ı	3	٠.	CAN-L
- -	SHIELD	1	_	†		إ	5	-[	CANA
2 0	20 ≥			59 SHIELD	20 4 6 0 7 0 8	φ: -   φ:	92	<u> </u>	KEY SLOT ILL
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L.	:: >		Ľ	+			g	>	CVT SHIFT SEI ECTOR POWER SLIPPLY
۰	· A		Ľ	╀	_ Terminal Color	<u> </u>	97	. 0	S/L CONDITION 1
_	9	1	Ĺ	┞	- No.	ou.	88	٦	S/L CONDITION 2
8	SHIELD	1	Ĺ	99	M		66	>	SHIFT P
6	м	-	Ĺ	49	R - 2 SHIELD -		100	۵	PASSENGER DOOR REQUEST SW
10	œ	-	Ĺ	89	G - SHIELD		101	W	DRIVER DOOR REQUEST SW
11	9	-		HS 69	SHIELD - 6 W -		102	Υ	BLOWER FAN MOTOR RELAY CONT
12	В	-	Ц	70	- 8 B		103	L	KEYLESS ENTRY RECEIVER POWER SUPPLY
13	0	-		71	- 9 Y B		106	λ.	S/L POWER SUPPLY
14	æ	-		72	LG 10 B		107	0	COMBI SW INPUT 1
15	SB	-		73	Y 11 B -		108	Ь	COMBI SW INPUT 4
16	æ	-			R 14 R		109	SB	COMBI SW INPUT 2
17	>	-		75	P - 15 B -		110	G	HAZARD SW
18	۵	-		76	- 17 SHIELD		=======================================	LG	S/L COMM
19	Д	1		┪	- 18 B	- F			
50	P.			7	- 18 I	[ma]			
21	> (		_[	+	6 :				
22	0 !			+					
23	5 FG	1		+					
54	90		_	+	2 c	ſ			
52	>-   >			+	-[With automatic drive positioner] Connector No.				
/7	<u> </u>	1		+	Connector Name   BCM (BODY CONTROL MODULE)	_			
88	α		_	84					
8	>-			+	+				
31	W	1	_	+	-[With front heated seat without passenger side power seat]				
32	BR	1		4	M				
34	>-	1		$\dashv$					
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36	g	-		88	B 191 90 69 88 87 86 85 84 65 82 81 80 79 78 77 77	75 74 73 72			
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40	0	1		┨					
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43			لـ	$\dashv$	of Wire				

JCNWM3172GB

ation)  HE (+)  RH (+)  RH (-)  RH (-)  RH (-)	А
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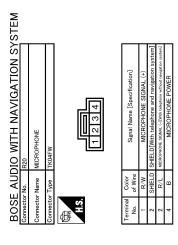
Revision: 2009 September AV-769 2010 Murano



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JCNWM3176GB

# SYMPTOM DIAGNOSIS

# MULTI AV SYSTEM SYMPTOMS

Symptom Table INFOID-000000005528813

#### RELATED TO NAVIGATION

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take	
	All switches cannot be operated.     "MULTI AV" is displayed on system selection screen when the CONSULT-III is started.	<ul> <li>Multifunction switch power supply and ground circuit.</li> <li>AV communication circuit between AV control unit and multifunction switch.</li> <li>Perform CONSULT-III self-diagnosis. Refer to AV-601.</li> <li>"CONSULT-III Function (MULTI AV)".</li> </ul>	
Multifunction switch and preset switch operation does not work.	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-631, "AV CONTROL UNIT: Diagnosis Procedure".	
	Only specified switch cannot be operated.	Multifunction switch or preset switch malfunction.  Replace multifunction switch <u>AV-546, "Exploded View"</u> or preset switch <u>AV-547, "Exploded View"</u> .	
Fuel acapamy display vehicle set	There is malfunction in the CONSULT-III self-diagnosis result.	Perform detected DTC self-diagnosis.  Refer to AV-601, "CONSULT-III Function (MULTI AV)".	
Fuel economy display, vehicle setting operation is abnormal.	There is no malfunction in the self-diagnosis results.	Ignition signal circuit malfunction.  Refer to AV-631, "AV CONTROL UNIT : Diagnosis Procedure".	
There is no guide sound	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-787, "Exploded View".	

#### RELATED TO HANDS-FREE PHONE

- Check that the cellular phone is a corresponding type (Bluetooth[™] correspondence) when the hands-free related malfunction vehicle is in service before performing a diagnosis.
- There is a case that malfunction occurs due to the version change of the phone type, etc. even though it is a
  corresponding type. Therefore, confirm it by changing the cellular phone to another corresponding type
  phone, and check that it operates normally. It is necessary to distinguish whether the cause is the vehicle or
  cellular phone.

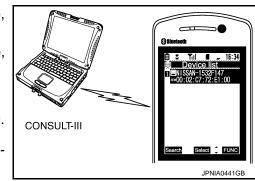
Simple check for Bluetooth[™] communication

If cellular phone and AV control unit cannot be connected with Bluetooth[™] communication, the following procedure allows the technician to judge which device has a malfunction.

- Turn on the cellular phone, not connecting Bluetooth[™] communication.
- Start CONSULT-III, then start Windows[®].
- 3. Set CONSULT-III near the cellular phone.
- 4. When operating Bluetooth[™] registration by cellular phone, check if CONSULT-III^{*} is displayed on the device name. (If another Bluetooth[™] device is located near the cellular phone, the name of the device will also be displayed.) NOTE:

*:Displayed device name is "NISSAN-*****."

- If no device name is displayed, cellular phone is malfunctioning. Repair the cellular phone first, then perform diagnosis.
- If CONSULT-III is displayed on device name, cellular phone is normal. Perform diagnosis as per the following table.



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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-787, "Exploded View".
Hands-free phone cannot be established.	<ul> <li>Hands-free phone operation can be made, but the communication cannot be established.</li> <li>Hands-free phone operation can be performed, however, voice between each other cannot be heard during the conversation.</li> </ul>	AV control unit malfunction.  Replace AV control unit. Refer to AV-787, "Exploded View".
The other party's voice cannot be heard by hands-free phone.	Check the "microphone speaker" in Inspection & Adjustment Mode if sound is heard.	AV control unit malfunction.  Replace AV control unit. Refer to AV-787, "Exploded View".
	Check the "microphone speaker" in Inspection & Adjustment Mode if sound is not heard.	AV control unit malfunction.  Replace AV control unit. Refer to AV-787, "Exploded View".
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-787, "Exploded View".
	Sound operation function does not work.	Microphone signal circuit malfunction. Refer to AV-645, "Diagnosis Procedure".

# **RELATED TO CAMERA**

Trouble diagnosis chart by symptom

Symptoms	Check items	Probable malfunction location
Camera image is not displayed (displayed in black and nothing can be displayed)	AUX image is not displayed.	<ul> <li>Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and display unit.     Refer to AV-641, "Diagnosis Procedure".</li> <li>Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit.     Refer to AV-642, "Diagnosis Procedure".</li> </ul>
Camera image is not shown. (Vehicle width and possible route line is displayed.)		<ul> <li>Camera image signal circuit between camera control unit and rear view camera.     Refer to AV-647, "Diagnosis Procedure".</li> <li>Rear view camera ON signal circuit.     Refer to AV-648, "Diagnosis Procedure".</li> </ul>
Camera image is not displayed. (Only warning message under area is displayed.)	There is malfunction in the CONSULT-III self-diagnosis result.	Perform detected DTC self-diagnosis. Refer to AV-601, "CONSULT-III Function (MULTI AV)".
	AUX image is normal.	Camera image signal circuit malfunction between camera control unit and front display unit.  Refer to AV-649, "Diagnosis Procedure".
	AUX image is not displayed.	RGB area (YS) signal circuit malfunction between AV control unit and front display unit.  Refer to AV-640, "Diagnosis Procedure".
	Select "Camera Cont." of confirmation/Adjustment mode, Reverse Sensor is not turned ON at "Connection Confirmation".	Reverse signal circuit malfunction (camera control unit).
CAMERA image is rolling.	AUX image is also rolling.	<ul> <li>Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and display unit.     Refer to AV-641, "Diagnosis Procedure".</li> <li>Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit.     Refer to AV-642, "Diagnosis Procedure".</li> </ul>

# **MULTI AV SYSTEM SYMPTOMS**

#### < SYMPTOM DIAGNOSIS >

# [BOSE AUDIO WITH NAVIGATION]

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Symptoms	Check items	Probable malfunction location
Camera image does not switch.	Malfunction of self-diagnosis result is indicated.	Camera-connection recognition signal circuit malfunction between AV control unit and camera control unit. Refer to <a href="AV-628">AV-628</a> , "Diagnosis Procedure".
	Malfunction of self-diagnosis result is not indicated.	Reverse signal circuit malfunction (AV control unit).
Possible route line is indicated abnormally when camera image is displayed.		Steering angle sensor signal circuit malfunction.  Refer to AV-650, "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.	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-601, "CONSULT-III Function (MULTI AV)".
NGB image is not shown.	<ul> <li>All RGB images are not shown.</li> <li>"MULTI AV" is not displayed on system selection screen when the CONSULT- III is started.</li> </ul>	AV control unit power supply and ground circuit malfunction.  Refer to AV-631, "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-636, "Diagnosis Procedure".
	Purple (Magenta) tint.	RGB signal (G: green) circuit malfunction between AV control unit and display unit.  Refer to AV-637, "Diagnosis Procedure".
	Screen looks yellowish.	RGB signal (B: blue) circuit malfunction between AV control unit and display unit.  Refer to AV-638, "Diagnosis Procedure".
RGB screen is rolling.	_	RGB synchronizing signal circuit malfunction between AV control unit and front display unit.  Refer to AV-639, "Diagnosis Procedure".

#### RELATED TO VOICE CONTROL

Trouble diagnosis chart by symptom

Symptoms	Check items	Probable malfunction location
The voice cannot be controlled even if the voice control screen is displayed.	Voice sounds at "Voice Microphone Test" of Confirmation/Adjustment mode.	AV control unit malfunction.  Replace AV control unit. Refer to AV-787, "Exploded View".
	Voice does not sound at "Voice Micro- phone Test" of Confirmation/Adjustment mode.	Microphone circuit malfunction. Refer to AV-645, "Diagnosis Procedure".
	Steering switch "SOURCE", "MENU UP", "MENU DOWN", "ENTER" operates, but "v\section" does not operate.	Steering switch malfunction. Replace steering switch. Refer to AV-798, "Removal and Installation".
The voice cannot be controlled (Voice control screen is not displayed).	Steering switch's "SOURCE", "MENU UP", "MENU DOWN", " "ENTER" does not operate.	Steering switch signal A circuit malfunction. Refer to AV-652, "Diagnosis Procedure".
	All steering switches do not work.	Steering switch signal GND circuit malfunction.  Refer to AV-656, "Diagnosis Procedure".

#### **RELATED TO AUDIO**

Trouble diagnosis chart by symptom

#### [BOSE AUDIO WITH NAVIGATION]

Symptoms	Check items	Possible malfunction location / Action to take	
The CD cannot be removed.	_	Disk eject signal circuit malfunction between AV control unit and preset switch.  Refer to AV-644, "Diagnosis Procedure".	
	No sound from all speakers.	<ul> <li>Amp. ON signal circuit.</li> <li>BOSE amp. power supply and ground circuit.</li> <li>Refer to <u>AV-633</u>, "BOSE AMP.: <u>Diagnosis Procedure"</u>.</li> </ul>	
Audio sound is not heard.	There is no sound from the woofer.	<ul> <li>Woofer amp. power supply and ground circuit. Refer to <u>AV-634</u>, "<u>WOOFER</u>: <u>Diagnosis Procedure</u>".</li> <li>Sound signal woofer circuit between BOSE amp. and woofer.</li> <li>Sound signal woofer circuit between BOSE amp. and woofer.</li> <li>Woofer amp. ON signal circuit between BOSE amp. and woofer.</li> </ul>	
	There is no sound from the center speaker.	Sound signal center speaker circuit.	
	There is sound only from specific places (RH front, RH rear, LH front and LH rear).	Sound signal circuit of suspect system.	
	There is malfunction in the CONSULT-III self-diagnosis result.	Perform CONSULT-III self-diagnosis.  Refer to AV-601, "CONSULT-III Function (MULTI AV)".	
Satellite radio is not received.	There is no malfunction in the CON-SULT-III self-diagnosis result.	Perform the following inspection procedure.  1. Check antenna base 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 antenna base.  Refer to AV-809, "Exploded View".  4. Replace the AV control unit.  Refer to AV-787, "Exploded View".	
AM/FM radio is not received.	Other audio sounds are normal.	Antenna amp. ON signal circuit.     Antenna feeder.	

# $\mathsf{RELATED}\:\mathsf{TO}\:\mathsf{iPod}^{\mathbb{R}}$

Trouble diagnosis chart by symptom

Connect another  $iPod^{\mathbb{B}}$  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 read a connection between iPod® and iPod harness.

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take
There is no sound from the iPod [®] .	Other audio sounds are normal.	<ul> <li>iPod sound signal circuit between AV control unit and iPod adapter.</li> <li>iPod sound signal circuit between iPod[®] and iPod adapter.</li> </ul>
It does not change to iPod mode.	There is malfunction in the CONSULT-III self-diagnosis.	Perform CONSULT-III self-diagnosis. Refer to AV-601, "CONSULT-III Function (MULTI AV)".
"iPod is not connected" is dis- played 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.		Communication circuit between irou and irou adapter.

# **MULTI AV SYSTEM SYMPTOMS**

#### < SYMPTOM DIAGNOSIS >

#### [BOSE AUDIO WITH NAVIGATION]

# RELATED TO STEERING SWITCH

Trouble diagnosis chart by symptom

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-656, "Diagnosis Procedure".	
Only specified switch (1) cannot be operated.	Steering switch malfunction. Refer to AV-798, "Exploded View".	
Steering switch's "SOURCE", "MENU UP", "MENU DOWN", " v ?", "ENTER" switches do not work.	Steering switch signal A circuit malfunction. Refer to AV-652, "Diagnosis Procedure".	
Steering switch's "", "VOL UP", "VOL DOWN", "" switches do not work.	Steering switch signal B circuit malfunction. Refer to AV-654, "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 vocal sound is heard when AUX mode is selected.	Vocal sound is heard when other modes are selected.	AUX sound signal circuit (auxiliary input jacks to AV control unit).
Image is not displayed when AUX mode is selected.	Camera image is displayed.	AUX image signal circuit malfunction. Refer to AV-643, "Diagnosis Procedure".

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# NORMAL OPERATING CONDITION

Description INFOID.000000005528814

#### NOTE:

- 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
	The brightness is at the lowest setting.	Adjust the brightness of the display.
No image is displayed.	The systems in the video mode.	Press <b><disc-aux></disc-aux></b> to change the mode.
	The display is turned off.	Press <b><day night=""></day></b> to turn on the display.
No voice guidance is available. Or	The volume is not set correctly, or it is turned off.	Adjust the volume of voice guidance.
The volume is too high or too low.	Voice guidance is not provided for certain streets (roads displayed in gray).	This is not a malfunction.
No map is displayed on the screen.	A screen other than map screen is displayed.	Press <map>.</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 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.
The system does not recognize your command. or The system recognizes your command incorrectly	You are speaking before the voice recognition is ready	Press and release "v\u2" switch on the steering switch, and speak a command after the tone sounds.
	8 seconds or more have passed after you pressed and released "√∠" switch on the steering switch.	Make sure to speak a command within 8 seconds after you press and release ""¿" switch on the steering switch.
	Only a limited range of voice commands is usable for each screen.	Use a correct voice command appropriate for the current screen.
	The fan of the air conditioner is too loud.	If the air conditioner is set to "Auto", the fan speed is automatically lowered and voice commands can be recognized more easily.  Lower the fan speed as necessary or set the air conditioner to "Auto".

#### Related to Item Choice

The system should respond correctly to all voice commands without difficulty. If problems are encountered, follow the solutions given in this guide for the appropriate error.

#### NORMAL OPERATING CONDITION

#### < SYMPTOM DIAGNOSIS >

#### [BOSE AUDIO WITH NAVIGATION]

Where the solutions are listed by number, try each solution in turn, starting with number one, until the problem is resolved.

Symptom/ error message	Solution	
	Ensure that the command format is valid.	
Displays "COMMAND NOT RECOGNIZED" or the system fails to interpret the command correctly.	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	1. Ensure that the voicetag requested matches what was originally stored. This can be confirmed by giving the "Addressbook" Directory or Phone Directory command.	
the wrong voicetag	2. Replace one of the voicetags being confused with a different voicetag.	

#### Related to Telephone

The system should respond correctly to all voice commands without difficulty. If problems are encountered, try the following solutions.

Where the solutions are listed by number, try each solution in turn, starting with number 1, until the problem is resolved.

Symptom	Solution	
System fails to interpret the command correctly.	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 not be recognized.	
	5. If more than one command was said at a time, try saying the commands separately.	
	6. If the system consistently fails to recognize commands, the voice training procedure should be carried out to improve the recognition response for the speaker. See "Speaker adaptation (SA) mode" earlier in this section. Refer to "OWNER'S MANUAL".	
The system consistently selects	Ensure that the phone book entry name requested matches what was originally stored. This can be confirmed by using the "List Names" command.	
the wrong voicetag	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.

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#### [BOSE AUDIO WITH NAVIGATION]

Symptom	Cause and Counter measure	
	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.	
Cannot play	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.	
	Check if the CD/CF is protected by copyright.	
Poor sound quality	Check if the CD/CF is scratched or dirty.	
It takes a relatively long time be- fore 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 of data such as high bit rate data.	
Move immediately to the next song when playing	When a non-MP3/WMA file has been given an extension of ".MP3", ".WMA", ".mp3", or ".wma", or when play is prohibited by copyright protection, the player will skip to the next song.	
The songs do not play back in the desired order.	The playback order is the order in which the files were written by the software, so the files might not play in the desired order.	

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

#### NOTE:

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

#### RELATED TO VEHICLE ICON

Symptom	Possible cause	Possible solution
Names of roads differ between Plan View and Birdview [™] .	This is because the quantity of the displayed information is reduced so that the screen does not become too crowded. There is also a chance that names of the roads may be displayed multiple times, and the names appearing on the screen may be different because of a processing procedure.	This is not a malfunction.
The vehicle icon is not displayed in the correct position.	The vehicle was transported after the ignition switch was pressed off, for example, by a ferry or car transporter.	Drive the vehicle for a while on a road where GPS signals can be received.
	The position and direction of the vehicle icon may be incorrect depending on the driving environments and the levels of positioning accuracy of the navigation system.	This is not a malfunction. Drive the vehicle for a while to automatically correct the position and direction of the vehicle icon.
When the vehicle is traveling on a new road, the vehicle icon is located on another road nearby.	Because the new road is not stored in the map data, the system automatically places the vehicle icon on the nearest road available.	Updated road information will be included in the next version of the map data.

# **NORMAL OPERATING CONDITION**

#### < SYMPTOM DIAGNOSIS >

# [BOSE AUDIO WITH NAVIGATION]

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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.</day>
The map does not scroll even when the vehicle is moving.	The current location map screen is not displayed.	Press <map>.</map>
The vehicle icon is not displayed.	The current location map screen is not displayed.	Press <map>.</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 calculation has not yet been performed.	Set the destination and perform route calculation.
Route information is not dis-	You are not driving on the suggested route.	Drive on the suggested route.
played.	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.
	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 suggested route is not displayed.	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 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.

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# **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 cases, 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 guidance 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 FOR USA AND CANADA

FOR USA AND CANADA: Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

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

#### **WARNING:**

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

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

#### **WARNING:**

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

FOR USA AND CANADA: Precaution for Trouble Diagnosis

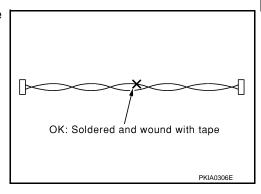
#### AV COMMUNICATION SYSTEM

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

FOR USA AND CANADA: Precaution for Harness Repair

#### AV COMMUNICATION SYSTEM

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



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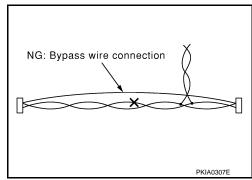
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#### [BOSE AUDIO WITH NAVIGATION]

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



#### FOR MEXICO

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

#### **WARNING:**

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

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

#### **WARNING:**

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

FOR MEXICO: Precaution for Trouble Diagnosis

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#### 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 at 7.0 V or less.
- Turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

FOR MEXICO: Precaution for Harness Repair

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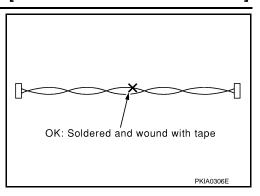
AV COMMUNICATION SYSTEM

#### **PRECAUTIONS**

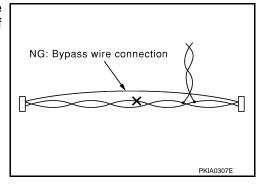
#### < PRECAUTION >

#### [BOSE AUDIO WITH NAVIGATION]

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



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



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# [BOSE AUDIO WITH NAVIGATION]

# **PREPARATION**

# **PREPARATION**

# **Commercial Service Tools**

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Tool name		Description
Power tool	PBIC0191E	Loosening screws

#### [BOSE AUDIO WITH NAVIGATION]

# REMOVAL AND INSTALLATION

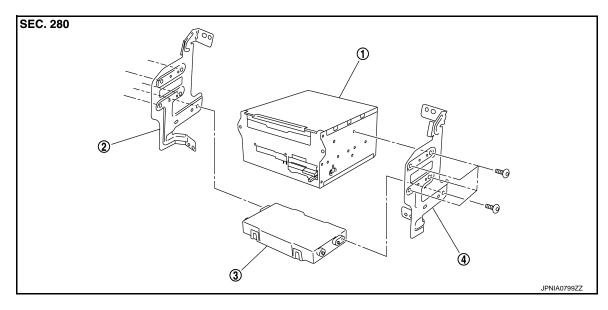
# AV CONTROL UNIT

Exploded View

**REMOVAL** 

Refer to IP-12, "Exploded View".

**DISASSEMBLY** 



1. AV control unit

2. Bracket LH

3. A/C auto amp.

4. Bracket RH

#### Removal and Installation

REMOVAL

- 1. Remove cluster lid C. Refer to IP-12, "Exploded View".
- 2. Remove AV control unit with a A/C auto amp. as a single unit from the body.
- 3. Remove bracket screws, and then remove AV control unit.

#### **INSTALLATION**

Install in the reverse order of removal.

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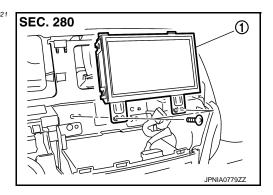
# **FRONT DISPLAY UNIT**

#### [BOSE AUDIO WITH NAVIGATION]

# FRONT DISPLAY UNIT

**Exploded View** 

INFOID:0000000005528821



1. Front display unit

# Removal and Installation

INFOID:0000000005528822

#### **REMOVAL**

- Remove center ventilator assembly. Refer to <u>IP-12, "Exploded View"</u>.
- 2. Remove display unit with bracket as a single unit.

#### **INSTALLATION**

Install in the reverse order of removal.

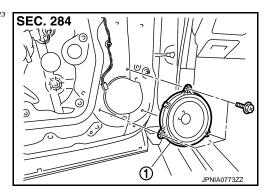
#### FRONT DOOR SPEAKER

[BOSE AUDIO WITH NAVIGATION]

# FRONT DOOR SPEAKER

**Exploded View** 

INFOID:0000000005528823



. Front door speaker

#### Removal and Installation

#### **REMOVAL**

- Remove front door finisher. Refer to <u>INT-12</u>, "FRONT DOOR FINISHER: Exploded View".
- 2. Remove front door speaker screws, then disconnect front door speaker connector and remove front door speaker.

#### **INSTALLATION**

Install in the reverse order of removal.

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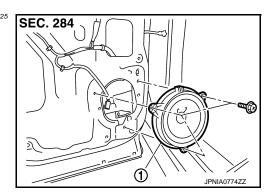
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# **REAR DOOR SPEAKER**

**Exploded View** 

INFOID:0000000005528825



Rear door speaker

#### Removal and Installation

INFOID:0000000005528826

#### **REMOVAL**

- 1. Remove rear door finisher. Refer to INT-16, "REAR DOOR FINISHER: Exploded View".
- 2. Remove rear door speaker screws, then disconnect rear door speaker connector and remove rear door speaker.

#### **INSTALLATION**

Install in the reverse order of removal.

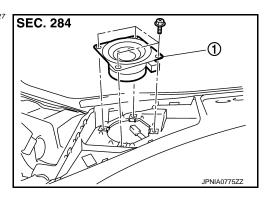
# **FRONT SQUAWKER**

#### [BOSE AUDIO WITH NAVIGATION]

# FRONT SQUAWKER

# **Exploded View**

INFOID:0000000005528827



. Front squawker

#### Removal and Installation

#### **REMOVAL**

- Remove speaker grille. Refer to <u>IP-12, "Exploded View"</u>.
- 2. Remove front squawker screws, lift up the front squawker and disconnect front squawker connector. Then remove the front squawker.

#### **INSTALLATION**

Install in the reverse order of removal.

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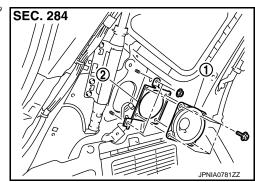
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#### [BOSE AUDIO WITH NAVIGATION]

# REAR SPEAKER

# **Exploded View**

INFOID:0000000005528829



- 1. Rear speaker
- 2. Rear speaker bracket

#### Removal and Installation

INFOID:0000000005528830

#### **REMOVAL**

- 1. Remove luggage side finisher upper. Refer to <a href="INT-34">INT-34</a>, "Exploded View".
- Remove rear speaker screws, lift up the rear speaker and disconnect rear speaker connector. Then remove the rear speaker.

#### **INSTALLATION**

Install in the reverse order of removal.

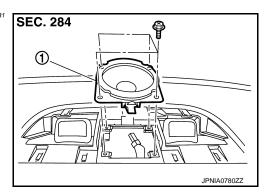
#### **CENTER SPEAKER**

#### [BOSE AUDIO WITH NAVIGATION]

### **CENTER SPEAKER**

## **Exploded View**

INFOID:0000000005528831



Center speaker

### Removal and Installation

#### **REMOVAL**

- 1. Remove center speaker grille. Refer to <a href="#">IP-12</a>, "Exploded View".
- Remove center speaker screws, lift up the center speaker and disconnect center speaker connector. Then remove the center speaker.

#### **INSTALLATION**

Install in the reverse order of removal.

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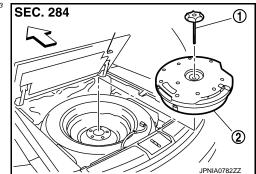
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### **WOOFER**

## **Exploded View**

INFOID:0000000005528833



- <a>: Vehicle front</a>
- 1. Clamp
- 2. Woofer

#### Removal and Installation

INFOID:0000000005528834

#### **REMOVAL**

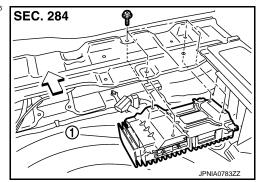
- 1. Remove luggage floor finisher center (back). Refer to <a href="INT-34">INT-34</a>, "Exploded View".
- 2. Remove clamp, disconnect woofer connector and remove the woofer.

#### **INSTALLATION**

### BOSE AMP.

## **Exploded View**

INFOID:0000000005528835



BOSE amp.

#### Removal and Installation

INFOID:0000000005528836

#### **REMOVAL**

- 1. Remove luggage floor finisher. Refer to INT-34, "Exploded View".
- 2. Remove BOSE amp. screws, disconnect BOSE amp. connector and remove the BOSE amp.

#### **INSTALLATION**

Install in the reverse order of removal.

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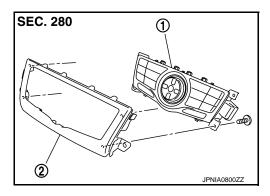
### **MULTIFUNCTION SWITCH**

Exploded View

**REMOVAL** 

Refer to IP-12, "Exploded View".

**DISASSEMBLY** 



- 1. Multifunction switch
- Cluster lid D

#### Removal and Installation

INFOID:0000000005528838

#### **REMOVAL**

- 1. Remove cluster lid D. Refer to IP-12, "Exploded View".
- 2. Remove multifunction switch with center ventilator grille as a single unit.
- 3. Remove multifunction switch screws, remove multifunction switch from cluster lid D.

#### **INSTALLATION**

### PRESET SWITCH

**Exploded View** 

INFOID:0000000005528839

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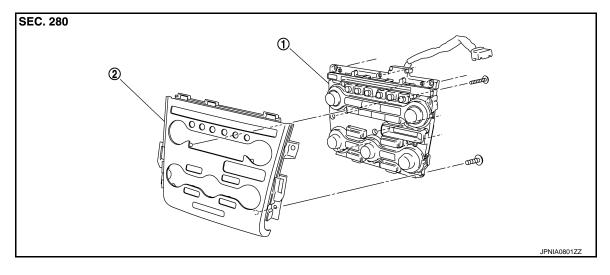
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**REMOVAL** 

Refer to IP-12, "Exploded View".

**DISASSEMBLY** 



1. Preset switch

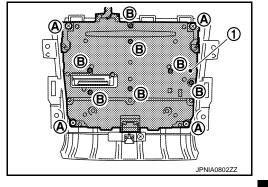
2. Cluster lid C

#### Removal and Installation

INFOID:0000000005528840

#### **REMOVAL**

- 1. Remove cluster lid C. Refer to IP-12, "Exploded View".
- 2. Remove preset switch screws (A) (B), remove preset switch (1) from cluster lid C.
  - 1. Preset switch
  - A. Screw
  - B. Screw



**INSTALLATION** 

Install in the reverse order of removal.

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### **STEERING SWITCH**

< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

### STEERING SWITCH

Exploded View

Refer to ST-17, "Exploded View".

Removal and Installation

**REMOVAL** 

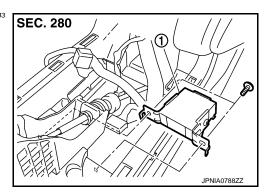
Refer to ST-17, "Exploded View".

**INSTALLATION** 

### **IPOD ADAPTER**

## **Exploded View**

INFOID:0000000005528843



1. iPod adapter

### Removal and Installation

INFOID:0000000005528844

#### **REMOVAL**

- 1. Remove front console pocket assembly. Refer to IP-20, "Exploded View".
- 2. Disconnect iPod adapter connector, remove iPod adapter screws and remove the iPod adapter.

#### **INSTALLATION**

Install in the reverse order of removal.

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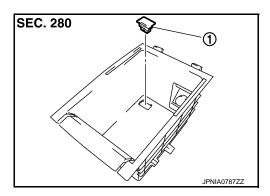
### **IPOD CONNECTOR**

Exploded View

**REMOVAL** 

Refer to IP-20, "Exploded View".

**DISASSEMBLY** 



iPod connector

#### Removal and Installation

INFOID:0000000005528846

#### **REMOVAL**

- 1. Remove center console. Refer to <a href="#">IP-20</a>, "Exploded View".
- 2. Press the pawl from the back of center console to remove iPod connector.

#### **INSTALLATION**

#### **AUXILIARY INPUT JACKS**

### < REMOVAL AND INSTALLATION >

#### [BOSE AUDIO WITH NAVIGATION]

# **AUXILIARY INPUT JACKS**

**Exploded View** 

INFOID:0000000005528847

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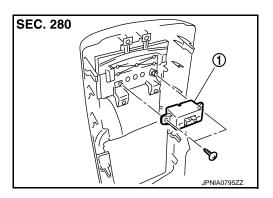
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**REMOVAL** 

Refer to IP-20, "Exploded View".

DISASSEMBLY



1. Auxiliary input jacks

#### Removal and Installation

INFOID:0000000005528848

#### **REMOVAL**

- 1. Remove console rear finisher. Refer to <a href="IP-20">IP-20</a>, "Exploded View".
- 2. Remove auxiliary input jacks from center console.

#### **INSTALLATION**

Install in the reverse order of removal.

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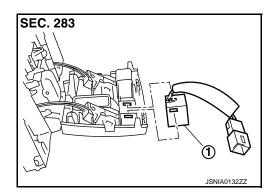
### **MICROPHONE**

Exploded View

**REMOVAL** 

Refer to INL-121, "Exploded View".

**DISASSEMBLY** 



1. Microphone

#### Removal and Installation

INFOID:0000000005528850

#### **REMOVAL**

- 1. Remove map lamp. Refer to INL-121, "Exploded View".
- 2. Remove microphone from map lamp.

### **INSTALLATION**

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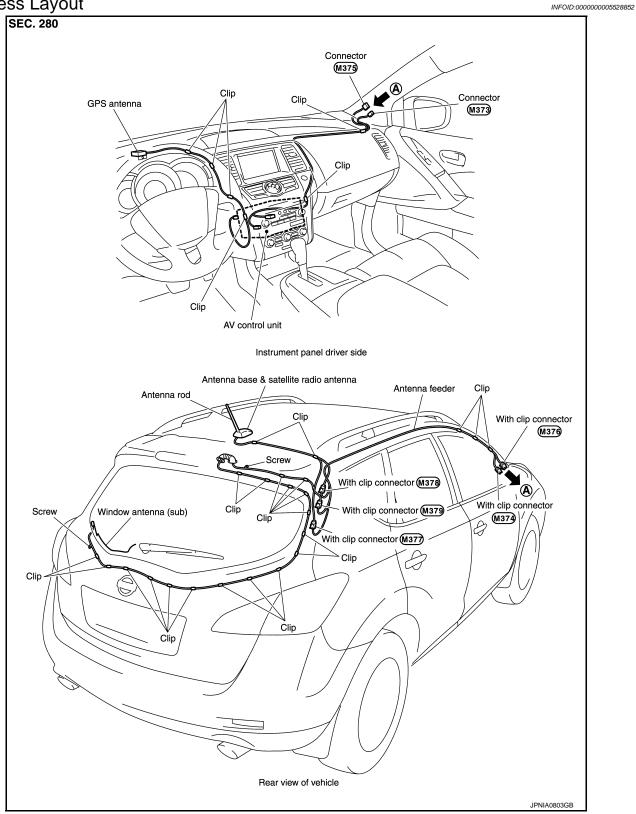
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### **GPS ANTENNA**

Exploded View

Harness Layout

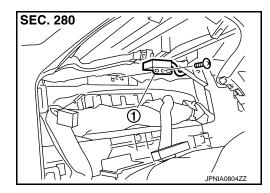


### Removal and Installation

INFOID:0000000005528853

#### **REMOVAL**

- 1. Remove combination meter. Refer to MWI-103, "Exploded View".
- 2. Disconnect GPS antenna connector from AV control unit.
- 3. Remove GPS antenna (1) from instrument panel.



#### **INSTALLATION**

#### **CAMERA CONTROL UNIT**

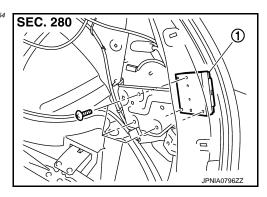
< REMOVAL AND INSTALLATION >

[BOSE AUDIO WITH NAVIGATION]

### **CAMERA CONTROL UNIT**

**Exploded View** 

INFOID:0000000005528854



Camera control unit

#### Removal and Installation

REMOVAL

- 1. Remove luggage side finisher lower (RH). Refer to <a href="INT-34">INT-34</a>, "Exploded View".
- Remove camera control unit screws, disconnect camera control unit connector and remove the camera control unit.

#### **INSTALLATION**

Install in the reverse order of removal.

Adjustment

#### **ADJUSTMENT**

There may be a misalignment of possible route line center position of rear view monitor after removing camera control unit. Therefore, correct neutral position with the following procedure.

- Steer the steering wheel to the leftmost and rightmost ends.
- 2. Drive vehicle at 30 km/h (18.6 MPH) min. speed at least 100 m (328.1 ft).

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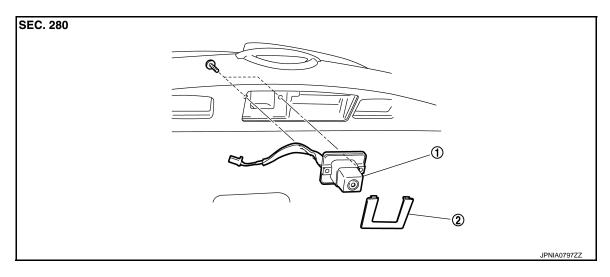
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INFOID:0000000005528855

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### **REAR VIEW CAMERA**

Exploded View



1. Rear view camera

2. Finisher

#### Removal and Installation

INFOID:0000000005528858

#### **REMOVAL**

- 1. Remove back door finisher inner. Refer to INT-38, "Exploded View".
- 2. Remove finisher.
- Remove rear view camera screws, disconnect rear view camera connector and remove rear view camera from back door assembly.

#### **INSTALLATION**

Install in the reverse order of removal.

Adjustment

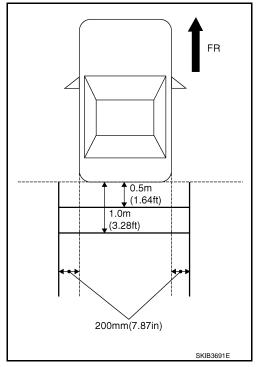
Adjust the guide line position if the guide line position is shifted after installing the rear view camera.

### **REAR VIEW CAMERA**

#### < REMOVAL AND INSTALLATION >

#### [BOSE AUDIO WITH NAVIGATION]

- 1. Draw lines on rearward area of the vehicle passing through the following points: 200 mm (7.87 in) from both sides of the vehicle, and 0.5 m (1.64 ft), 1.0 m (3.28 ft) from the rear end of the bumper.
- Set into "Adjust offset of rear view camera" mode of Confirmation / Adjustment mode.

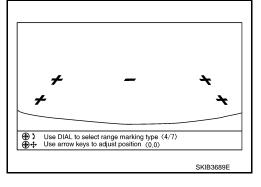


Rotate the center dial, and then select the guiding line pattern so that its angle is aligned with the correction line of the rear of the vehicle.

### Selected pattern : 7

4. Make fine adjustment to the correction line of the rear of the vehicle with up/down/left/right switches so that its position is aligned with the guiding line. Press "OK" switch and record the adjusted guiding line position to the camera control unit.

> Up/Down adjustment range : −20 − 20 Left/Right adjustment range : −20 − 20



#### CALITION:

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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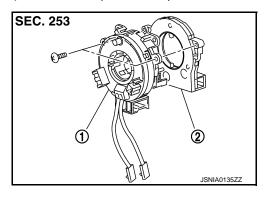
### STEERING ANGLE SENSOR

Exploded View

**REMOVAL** 

Refer to SR-14. "Exploded View" (for USA and Canada) or SR-40. "Exploded View" (for Mexico).

**DISASSEMBLY** 



- Spiral cable
- 2. Steering angle sensor

#### Removal and Installation

INFOID:0000000005528861

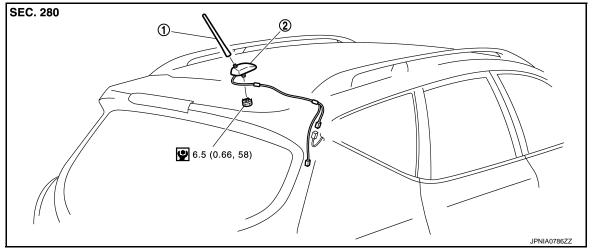
#### **REMOVAL**

- 1. Remove spiral cable.
- 2. Remove steering angle sensor from spiral cable.

#### **INSTALLATION**

### **ROOF ANTENNA**

**Exploded View** 



1. Rod antenna

2. Antenna bade & satellite radio antenna

Refer to GI-4, "Components" for symbols in the figure.

#### Removal and Installation

**REMOVAL** 

- Remove headlining assembly (rear) to secure work space between vehicle and headlining. Refer to <u>INT-26</u>, "NORMAL ROOF: Exploded View" [without sunroof] or <u>INT-30</u>, "SUNROOF: Exploded View" [with sunroof].
- 2. Disconnect AM/FM main connector and satellite radio antenna connector.
- 3. Remove antenna base & satellite radio nut, and then remove antenna base &satellite radio antenna from roof panel.

#### **INSTALLATION**

Install in the reverse order of removal.

Antenna base & satellite radio antenna mounting nut

#### **CAUTION:**

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

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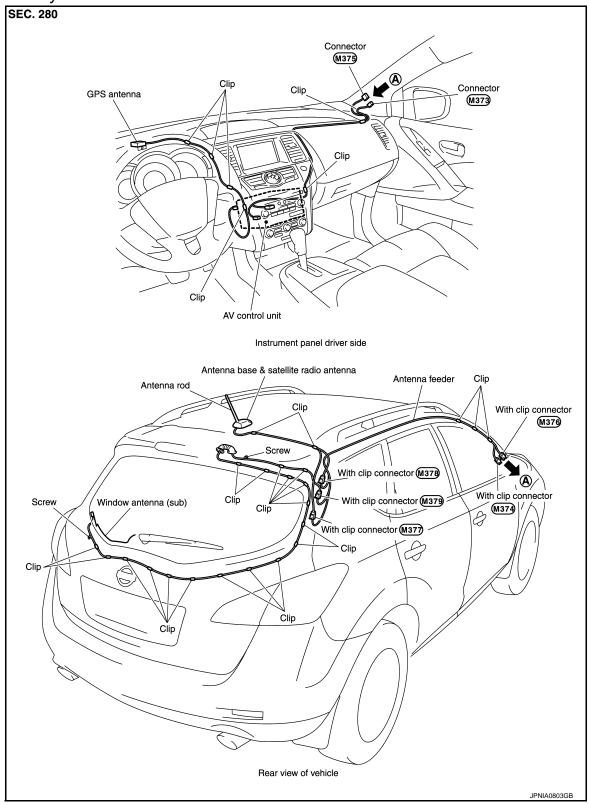
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# **ANTENNA FEEDER (RADIO)**

Harness Layout



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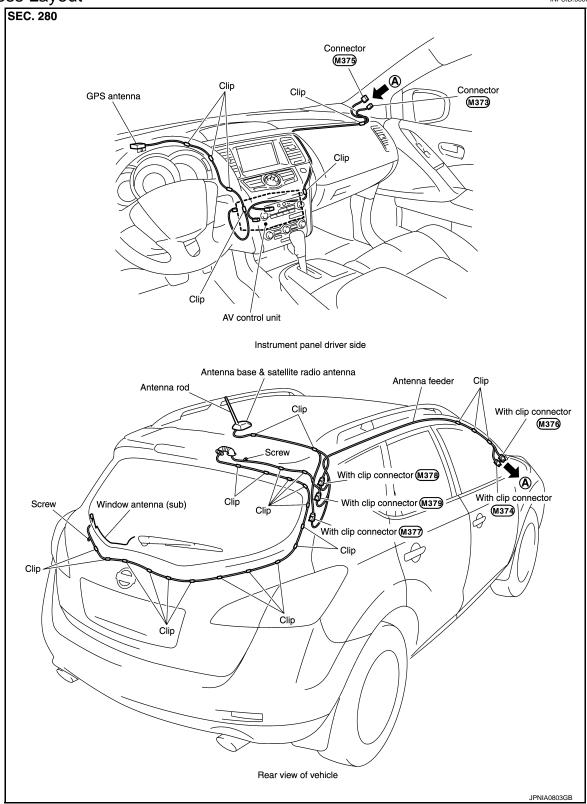
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# ANTENNA FEEDER (SATELLITE RADIO)

Harness Layout



Revision: 2009 September AV-811 2010 Murano

# ANTENNA FEEDER (GPS)

Harness Layout

