

SECTION **AV**

**AUDIO, VISUAL & NAVIGATION SYSTEM**

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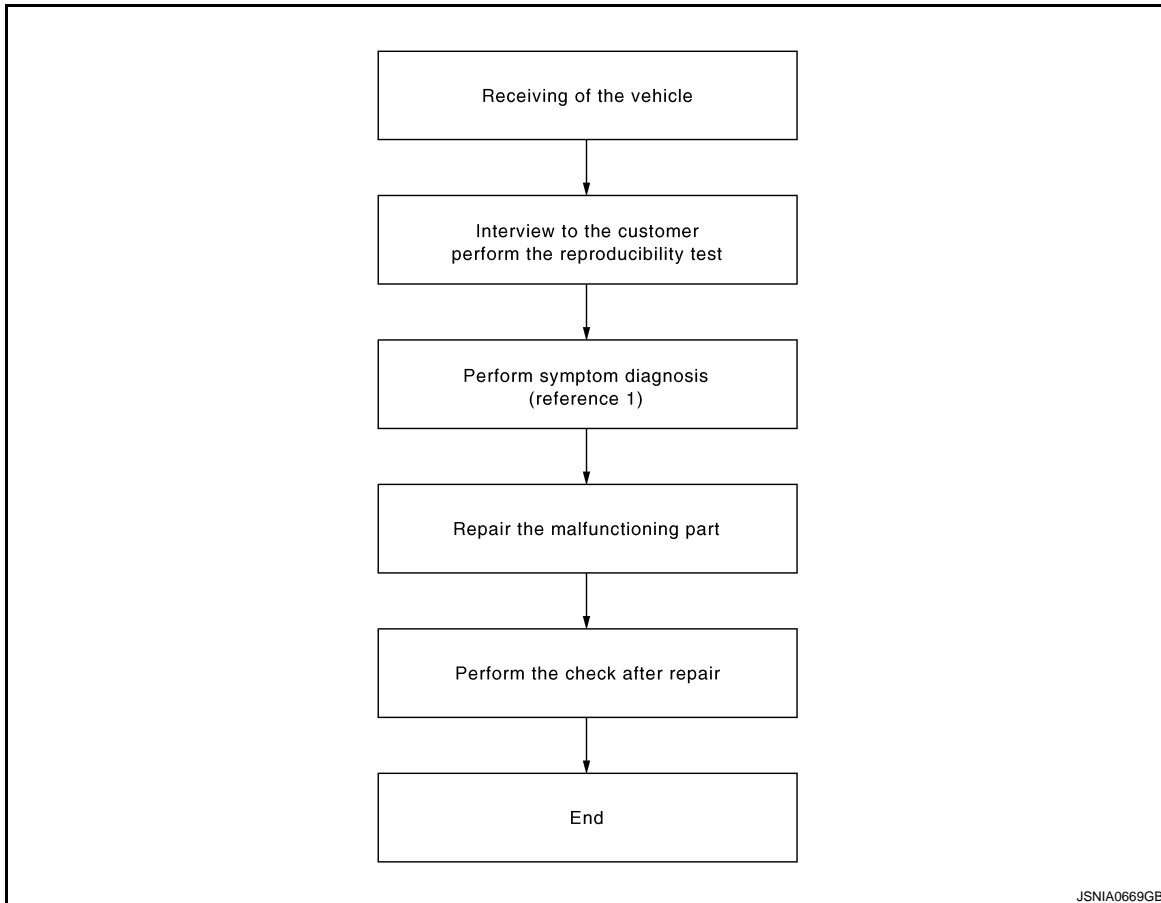
## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORKFLOW

#### Work Flow

INFOID:000000005255069

#### OVERALL SEQUENCE



JSNIA0669GB

Reference 1 ... Refer to [AV-25, "Symptom Table"](#).

#### DETAILED FLOW

##### 1. CHECK SYMPTOM

Check the malfunction symptoms by performing the following items.

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

>> GO TO 2.

##### 2. PERFORM DIAGNOSIS BY SYMPTOM

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to [AV-25, "Symptom Table"](#).

>> GO TO 3.

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

Repair or replace the malfunctioning parts.

>> GO TO 4.

##### 4. FINAL CHECK

# DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[BASE AUDIO]

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

Is there any symptom?

YES >> GO TO 2.

NO >> INSPECTION END

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# AUDIO SYSTEM

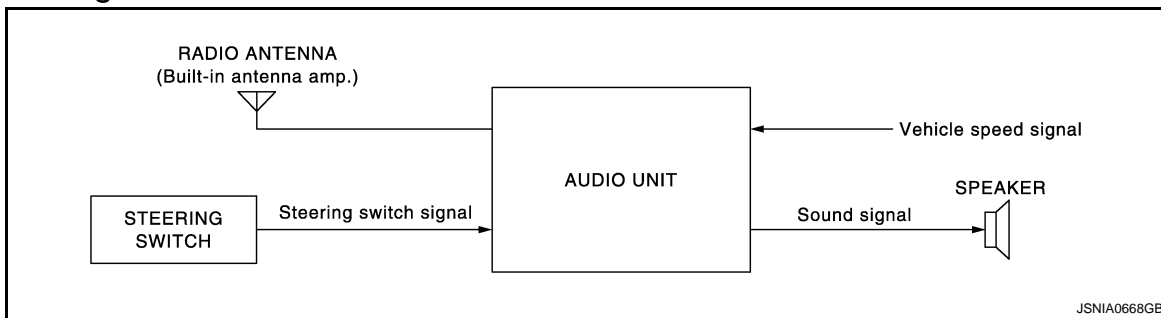
< SYSTEM DESCRIPTION >

[BASE AUDIO]

## SYSTEM DESCRIPTION

### AUDIO SYSTEM

#### System Diagram



#### System Description

INFOID:000000005255071

### AUDIO SYSTEM

#### Audio functions

AM/FM radio

CD/6CD

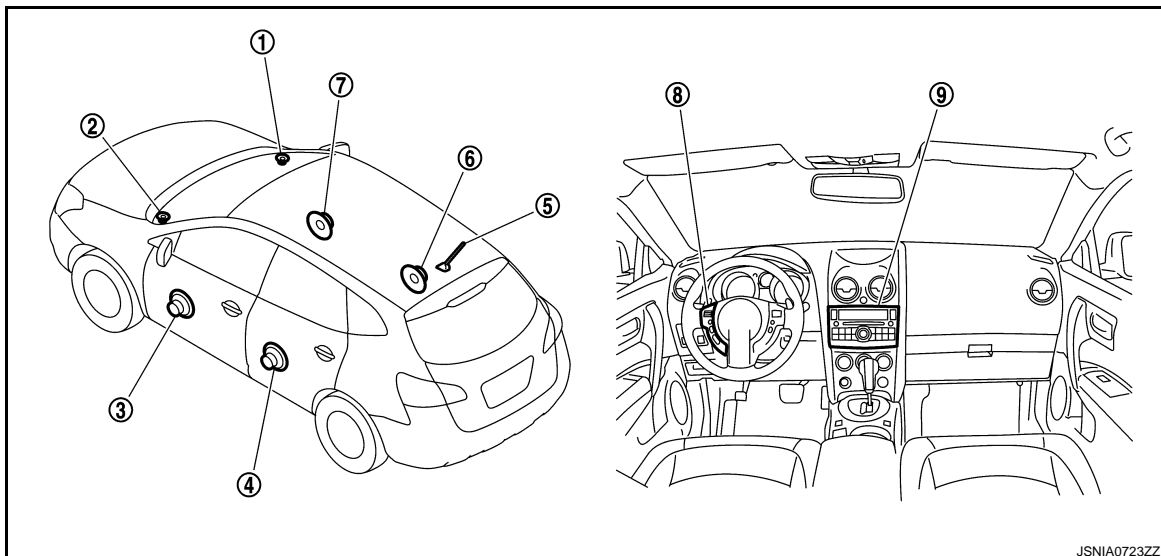
- Radio signals are received by the radio antenna, then amplified by the antenna amp., and finally input to the audio unit. (Antenna amp. is built into the radio antenna.)
- The audio unit outputs the audio signal to each speaker.

#### SPEED SENSITIVE VOLUME (6CD MODELS)

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

#### Component Parts Location

INFOID:000000005255072



- |                     |                    |                     |
|---------------------|--------------------|---------------------|
| 1. Tweeter RH       | 2. Tweeter LH      | 3. Front speaker LH |
| 4. Rear speaker LH  | 5. Radio antenna   | 6. Rear speaker RH  |
| 7. Front speaker RH | 8. Steering switch | 9. Audio unit       |

# AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[BASE AUDIO]

## Component Description

INFOID:000000005255073

Part name	Description
Audio unit	Controls audio system functions.
Front speaker	<ul style="list-style-type: none"><li>• Outputs sound signal from audio unit.</li><li>• Outputs high, mid and low range sounds.</li></ul>
Tweeter	<ul style="list-style-type: none"><li>• Outputs sound signal from audio unit.</li><li>• Outputs high range sounds.</li></ul>
Rear speaker	<ul style="list-style-type: none"><li>• Outputs sound signal from audio unit.</li><li>• Outputs high, mid and low range sounds.</li></ul>
Radio antenna (Built-in antenna amp.)	<ul style="list-style-type: none"><li>• Radio signal received by radio antenna is amplified and sent to audio unit.</li><li>• Power (antenna amp. ON signal) is supplied from audio unit.</li></ul>
Steering switch	<ul style="list-style-type: none"><li>• Each audio operation can be operated.</li><li>• Steering switch signal (operation signal) is output to audio unit.</li></ul>

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## DIAGNOSIS SYSTEM (AUDIO UNIT)

### Diagnosis Description

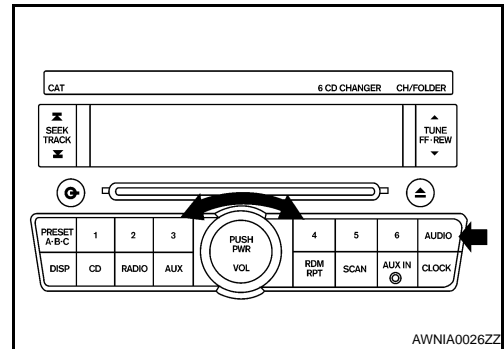
INFOID:000000005255074

Self-diagnosis mode can check the following items.

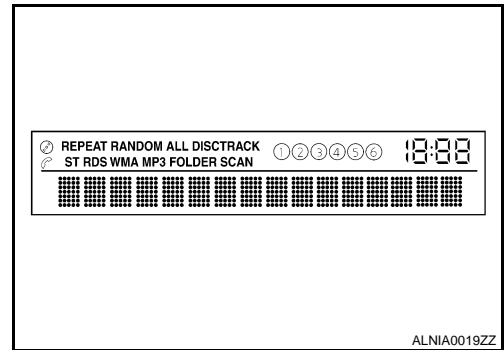
- Audio unit hardware/software versions
- Continuity of each speaker channel
- Continuity of each audio unit switch

### OPERATION PROCEDURE

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

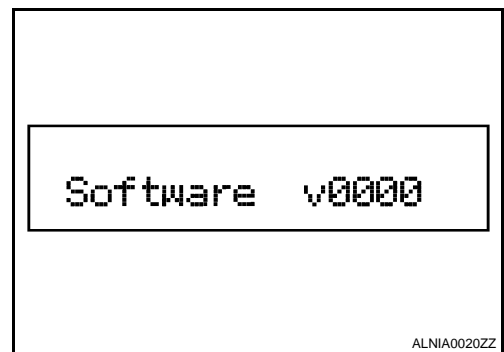


4. Initially, all display segments will be illuminated.



### Version Check

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



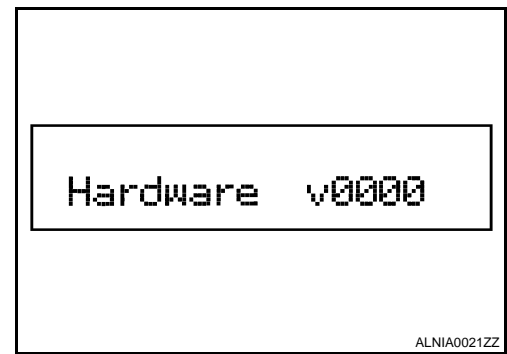


# DIAGNOSIS SYSTEM (AUDIO UNIT)

< SYSTEM DESCRIPTION >

[BASE AUDIO]

2. Press the "AUDIO" switch again to display the "Hardware" (audio hardware version).



A  
B  
C  
D

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



E  
F  
G  
H

4. Press the "AUDIO" switch again to display the "SDARS" (satellite radio version).



I  
J  
K  
L

## Channel Check Diagnostics

When all segments are illuminated, press the "TUNE" up switch to enter channel check diagnostics. The self-diagnostic function will then send a tone to each channel (FL, RL, RR, FR) for 1 second.



M  
AV  
O  
P

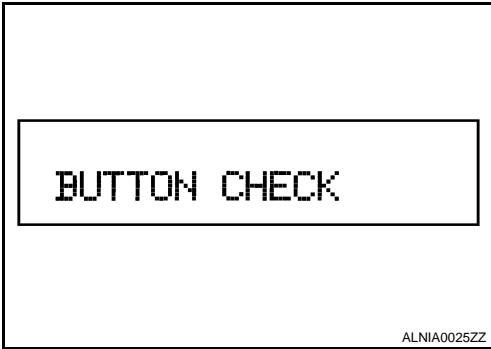
## Button Check Diagnostics

# DIAGNOSIS SYSTEM (AUDIO UNIT)

< SYSTEM DESCRIPTION >

[BASE AUDIO]

When all segments are illuminated, press the "TUNE" down switch to enter button check diagnostics. When each audio unit switch is pressed, a tone will sound and the switch name will be displayed.



# 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:000000005255075

#### 1.CHECK FUSE

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

Power source	Fuse No.
Battery	35
Ignition switch ACC or ON	20

#### Is inspection result OK?

YES >> GO TO 2.

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

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

Check voltage between the audio unit and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Voltage
Battery power supply	M46	19	OFF	Battery voltage
ACC power supply	M46	7	ACC	Battery voltage

#### Is inspection result OK?

YES >> INSPECTION END

NO >> Check harness between audio unit and fuse.

A  
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AV

# STEERING SWITCH SIGNAL A CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

## STEERING SWITCH SIGNAL A CIRCUIT

### Description

INFOID:000000005255076

Transmits the steering switch signal to audio unit.

### Diagnosis Procedure

INFOID:000000005255077

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

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

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

4. Check continuity between audio unit harness connector.

Audio unit		Ground	Continuity
Connector	Terminal		
M46	6		Not existed

#### Is inspection result OK?

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

#### 2. CHECK SPIRAL CABLE

Check spiral cable.

#### Is inspection result OK?

- 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.

(+)		(-)		Voltage (Approx.)
Audio unit		Audio unit		
Connector	Terminal	Connector	Terminal	
M46	6	M46	15	3.3 V

#### Is inspection result OK?

- YES >> GO TO 4.  
NO >> Replace audio unit.

#### 4. CHECK STEERING SWITCH

1. Turn ignition switch ON.
2. Check steering switch. Refer to [AV-13. "Component Inspection"](#).

#### Is inspection result OK?

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

# STEERING SWITCH SIGNAL A CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

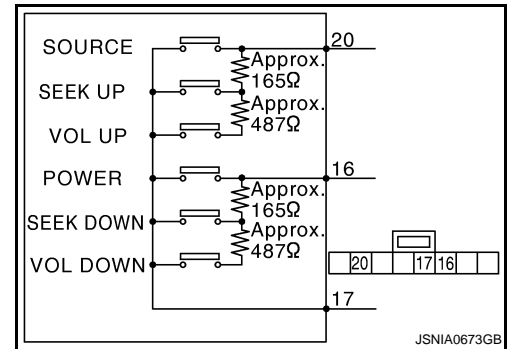
INFOID:000000005255078

## Component Inspection

Measure the resistance between the steering switch connector.

Standard

Steering switch		Condition	Resistance $\Omega$
Terminal	Terminal		
20	17	VOL UP switch ON	645 – 659
		SEEK UP switch ON	163 – 167
		SOURCE switch ON	0
16	17	VOL DOWN switch ON	645 – 659
		SEEK DOWN switch ON	163 – 167
		POWER switch ON	0



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# STEERING SWITCH SIGNAL B CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

## STEERING SWITCH SIGNAL B CIRCUIT

### Description

INFOID:000000005255079

Transmits the steering switch signal to audio unit.

### Diagnosis Procedure

INFOID:000000005255080

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

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

Audio unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
M46	16	M33	32	Existed

4. Check continuity between audio unit harness connector.

Audio unit		Ground	Continuity
Connector	Terminal		
M46	16		Not existed

#### Is inspection result OK?

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

#### 2. CHECK SPIRAL CABLE

Check spiral cable.

#### Is inspection result OK?

- 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.

(+)		(-)		Voltage (Approx.)
Audio unit		Audio unit		
Connector	Terminal	Connector	Terminal	
M46	16	M46	15	3.3 V

#### Is inspection result OK?

- YES >> GO TO 4.  
NO >> Replace audio unit.

#### 4. CHECK STEERING SWITCH

1. Turn ignition switch ON.
2. Check steering switch. Refer to [AV-15. "Component Inspection"](#).

#### Is inspection result OK?

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

# STEERING SWITCH SIGNAL B CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

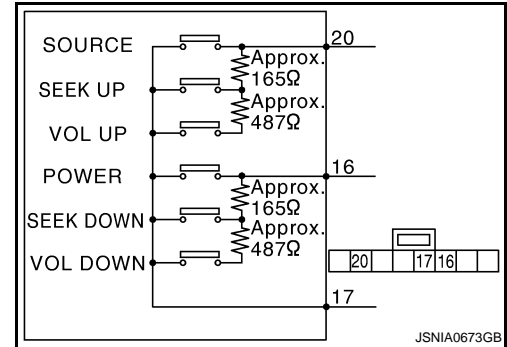
INFOID:000000005255081

## Component Inspection

Measure the resistance between the steering switch connector.

Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
20	17	VOL UP switch ON	645 – 659
		SEEK UP switch ON	163 – 167
		SOURCE switch ON	0
16	17	VOL DOWN switch ON	645 – 659
		SEEK DOWN switch ON	163 – 167
		POWER switch ON	0



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# STEERING SWITCH SIGNAL GND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

## STEERING SWITCH SIGNAL GND CIRCUIT

### Description

INFOID:000000005255082

Transmits the steering switch signal to audio unit.

### Diagnosis Procedure

INFOID:000000005255083

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

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

Audio unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
M46	15	M33	31	Existed

#### Is inspection result OK?

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

#### 2. CHECK SPIRAL CABLE

Check spiral cable.

#### Is inspection result OK?

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

#### 3. CHECK GROUND CIRCUIT

1. Connect audio unit connector.
2. Check continuity between audio unit harness connector terminals 15 and ground.

Audio unit		Ground	Continuity
Connector	Terminal		
M46	15		Existed

#### Is inspection result OK?

- YES >> GO TO 4.  
NO >> Replace audio unit.

#### 4. CHECK STEERING SWITCH

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

#### Is inspection result OK?

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

### Component Inspection

INFOID:000000005255084

Measure the resistance between the steering switch connector.



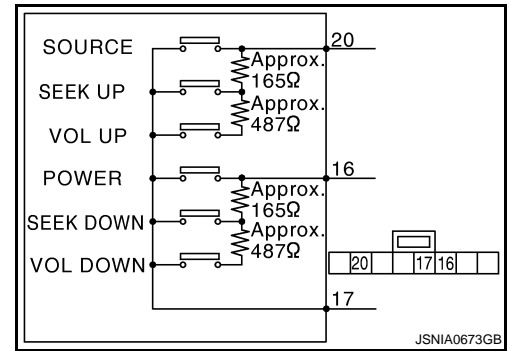
# STEERING SWITCH SIGNAL GND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BASE AUDIO]

Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
20	17	VOL UP switch ON	645 – 659
		SEEK UP switch ON	163 – 167
		SOURCE switch ON	0
16	17	VOL DOWN switch ON	645 – 659
		SEEK DOWN switch ON	163 – 167
		POWER switch ON	0



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# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO]

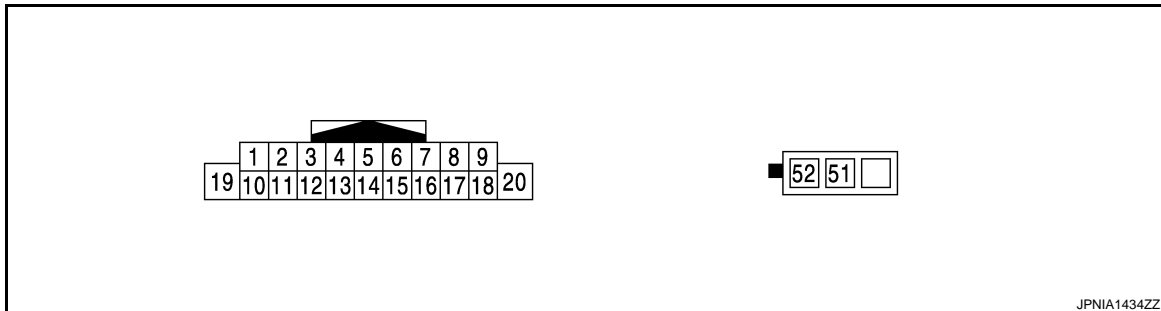
## ECU DIAGNOSIS INFORMATION

### AUDIO UNIT

Reference Value

INFOID:000000005255085

#### TERMINAL LAYOUT



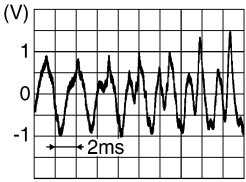
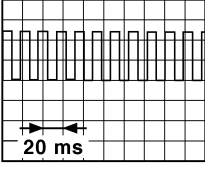
#### PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
2 (R)	3 (G)	Sound signal front LH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>
4 (V)	5 (LG)	Sound signal rear LH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>
6 (W)	15 (GR)	Steering switch signal A	Input	Ignition switch ON	Keep pressing SOURCE switch	0 V
					Keep pressing SEEK UP switch	1.1 V
					Keep pressing VOL UP switch	2.2 V
					Except for above	3.3 V
7 (SB)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
11 (O)	12 (W)	Sound signal front RH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>

# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
13 (L)	14 (P)	Sound signal rear RH	Output	Ignition switch ON	Voice output	
15 (GR)	Ground	Steering switch signal ground	—	Ignition switch ON	—	0 V
16 (O)	15 (GR)	Steering switch signal B	Input	Ignition switch ON	Keep pressing POWER switch	0 V
					Keep pressing SEEK DOWN switch	1.1 V
					Keep pressing VOL DOWN switch	2.2 V
					Except for above	3.3 V
18 (L)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is ap- prox. 40 km/h (25MPH)	<p><b>NOTE:</b> The maximum voltage varies de- pending on the specification (destination unit).</p> 
19 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
51	—	Antenna signal	Input	—	—	—
52	Ground	Antenna amp. ON signal	Output	Ignition switch ON	—	12.0 V

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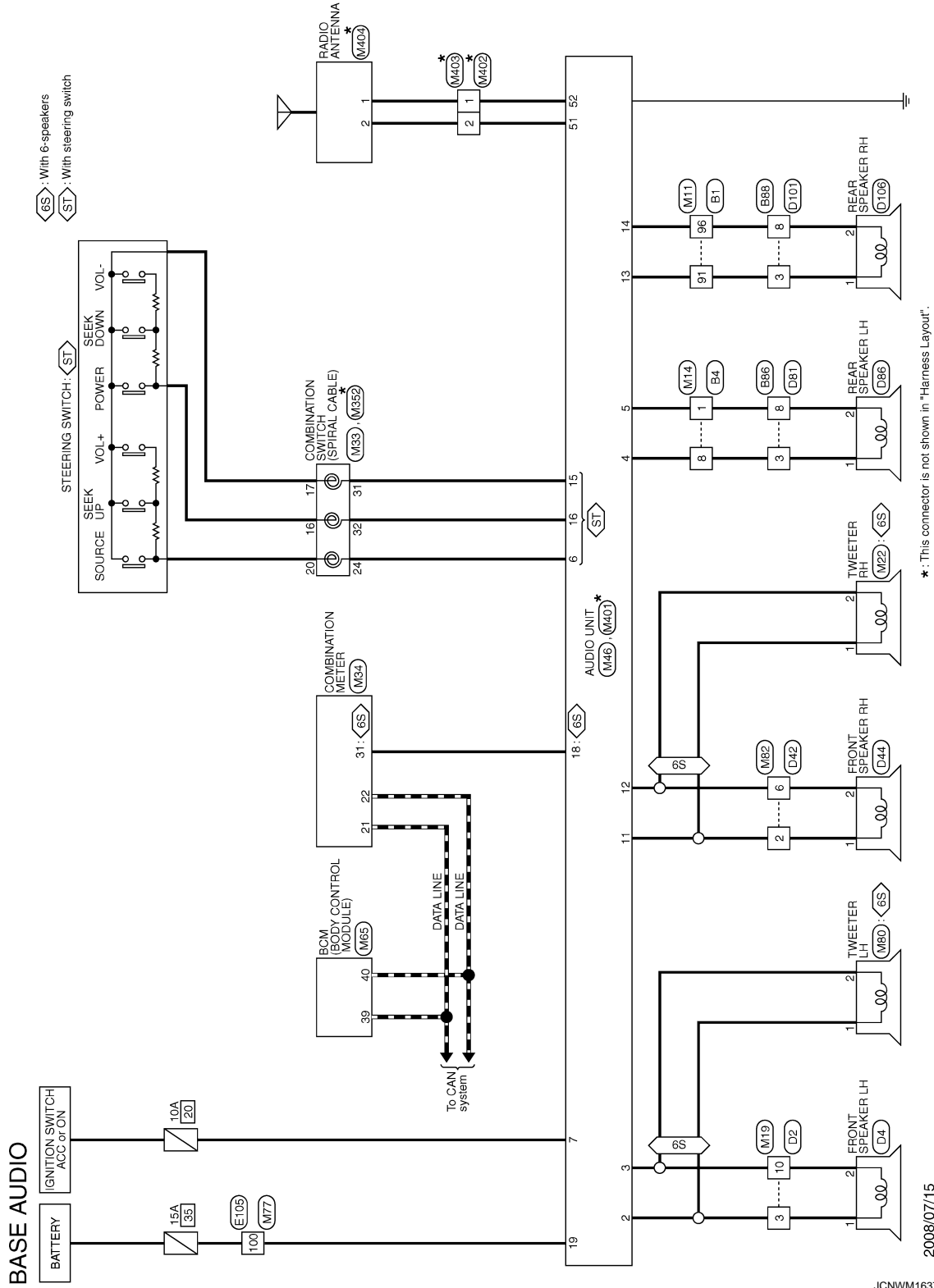
# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO]

## Wiring Diagram - BASE AUDIO -

INFOID:000000005255086


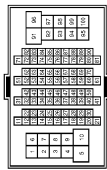



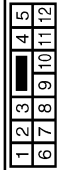

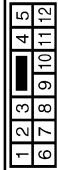










# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO]

## BASE AUDIO

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Connector No.	B1															
Connector Name	WIRE TO WIRE															
Connector Type	TH80WF-CS (F-TM4)															
Terminal No.	Color of Wire	Signal Name [Specification]														
91	GR	-														
96	Y	-														
<table border="1"> <tr><td>Connector No.</td><td>B4</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS16MF-CS</td></tr> </table>  	Connector No.	B4	Connector Name	WIRE TO WIRE	Connector Type	NS16MF-CS	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>R</td><td>-</td></tr> <tr><td>8</td><td>L</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	R	-	8	L	-
Connector No.	B4															
Connector Name	WIRE TO WIRE															
Connector Type	NS16MF-CS															
Terminal No.	Color of Wire	Signal Name [Specification]														
1	R	-														
8	L	-														
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Connector No.	B98															
Connector Name	WIRE TO WIRE															
Connector Type	NS12MF-CS															
Terminal No.	Color of Wire	Signal Name [Specification]														
3	L	-														
8	R	-														
<table border="1"> <tr><td>Connector No.</td><td>B98</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS12MF-CS</td></tr> </table>  	Connector No.	B98	Connector Name	WIRE TO WIRE	Connector Type	NS12MF-CS	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>3</td><td>GR</td><td>-</td></tr> <tr><td>8</td><td>Y</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	3	GR	-	8	Y	-
Connector No.	B98															
Connector Name	WIRE TO WIRE															
Connector Type	NS12MF-CS															
Terminal No.	Color of Wire	Signal Name [Specification]														
3	GR	-														
8	Y	-														
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Connector No.	D2															
Connector Name	WIRE TO WIRE															
Connector Type	NS16FW-CS															
Terminal No.	Color of Wire	Signal Name [Specification]														
3	B	-														
10	P	-														
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Connector No.	D4															
Connector Name	FRONT SPEAKER LH															
Connector Type	NS02FW-CS															
Terminal No.	Color of Wire	Signal Name [Specification]														
1	B	-														
2	P	-														
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Connector No.	D42															
Connector Name	WIRE TO WIRE															
Connector Type	NS10FW-CS															
Terminal No.	Color of Wire	Signal Name [Specification]														
2	G	-														
6	R	-														
<table border="1"> <tr><td>Connector No.</td><td>D44</td></tr> <tr><td>Connector Name</td><td>FRONT SPEAKER RH</td></tr> <tr><td>Connector Type</td><td>NS02FW-CS</td></tr> </table>  	Connector No.	D44	Connector Name	FRONT SPEAKER RH	Connector Type	NS02FW-CS	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>G</td><td>-</td></tr> <tr><td>2</td><td>R</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	G	-	2	R	-
Connector No.	D44															
Connector Name	FRONT SPEAKER RH															
Connector Type	NS02FW-CS															
Terminal No.	Color of Wire	Signal Name [Specification]														
1	G	-														
2	R	-														


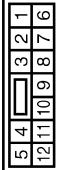



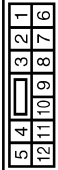



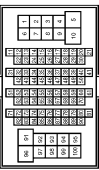






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# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO]

## BASE AUDIO

<table border="1"> <tr> <td>Connector No.</td> <td>D01</td> </tr> <tr> <td>Connector Name</td> <td>WIRE TO WIRE</td> </tr> <tr> <td>Connector Type</td> <td>NS12FW-CS</td> </tr> </table>  	Connector No.	D01	Connector Name	WIRE TO WIRE	Connector Type	NS12FW-CS	<table border="1"> <tr> <td>Terminal No.</td> <td>Color of Wire</td> <td>Signal Name [Specification]</td> </tr> <tr> <td>3</td> <td>L</td> <td>-</td> </tr> <tr> <td>8</td> <td>R</td> <td>-</td> </tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	3	L	-	8	R	-
Connector No.	D01															
Connector Name	WIRE TO WIRE															
Connector Type	NS12FW-CS															
Terminal No.	Color of Wire	Signal Name [Specification]														
3	L	-														
8	R	-														
<table border="1"> <tr> <td>Connector No.</td> <td>D05</td> </tr> <tr> <td>Connector Name</td> <td>REAR SPEAKER LH (WITHOUT BOSE SYSTEM)</td> </tr> <tr> <td>Connector Type</td> <td>NS02FW-CS</td> </tr> </table>  	Connector No.	D05	Connector Name	REAR SPEAKER LH (WITHOUT BOSE SYSTEM)	Connector Type	NS02FW-CS	<table border="1"> <tr> <td>Terminal No.</td> <td>Color of Wire</td> <td>Signal Name [Specification]</td> </tr> <tr> <td>1</td> <td>L</td> <td>-</td> </tr> <tr> <td>2</td> <td>R</td> <td>-</td> </tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	L	-	2	R	-
Connector No.	D05															
Connector Name	REAR SPEAKER LH (WITHOUT BOSE SYSTEM)															
Connector Type	NS02FW-CS															
Terminal No.	Color of Wire	Signal Name [Specification]														
1	L	-														
2	R	-														
<table border="1"> <tr> <td>Connector No.</td> <td>D101</td> </tr> <tr> <td>Connector Name</td> <td>WIRE TO WIRE</td> </tr> <tr> <td>Connector Type</td> <td>NS12FW-CS</td> </tr> </table>  	Connector No.	D101	Connector Name	WIRE TO WIRE	Connector Type	NS12FW-CS	<table border="1"> <tr> <td>Terminal No.</td> <td>Color of Wire</td> <td>Signal Name [Specification]</td> </tr> <tr> <td>3</td> <td>GR</td> <td>-</td> </tr> <tr> <td>8</td> <td>Y</td> <td>-</td> </tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	3	GR	-	8	Y	-
Connector No.	D101															
Connector Name	WIRE TO WIRE															
Connector Type	NS12FW-CS															
Terminal No.	Color of Wire	Signal Name [Specification]														
3	GR	-														
8	Y	-														
<table border="1"> <tr> <td>Connector No.</td> <td>D106</td> </tr> <tr> <td>Connector Name</td> <td>REAR SPEAKER RH (WITHOUT BOSE SYSTEM)</td> </tr> <tr> <td>Connector Type</td> <td>NS02FW-CS</td> </tr> </table>  	Connector No.	D106	Connector Name	REAR SPEAKER RH (WITHOUT BOSE SYSTEM)	Connector Type	NS02FW-CS	<table border="1"> <tr> <td>Terminal No.</td> <td>Color of Wire</td> <td>Signal Name [Specification]</td> </tr> <tr> <td>1</td> <td>GR</td> <td>-</td> </tr> <tr> <td>2</td> <td>Y</td> <td>-</td> </tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	GR	-	2	Y	-
Connector No.	D106															
Connector Name	REAR SPEAKER RH (WITHOUT BOSE SYSTEM)															
Connector Type	NS02FW-CS															
Terminal No.	Color of Wire	Signal Name [Specification]														
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2	Y	-														
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Connector No.	E105															
Connector Name	WIRE TO WIRE															
Connector Type	TH60FW-CS16-TM4															
Terminal No.	Color of Wire	Signal Name [Specification]														
100	L	-														
<table border="1"> <tr> <td>Connector No.</td> <td>M11</td> </tr> <tr> <td>Connector Name</td> <td>WIRE TO WIRE</td> </tr> <tr> <td>Connector Type</td> <td>TH80FW-CS16-TM4</td> </tr> </table>  	Connector No.	M11	Connector Name	WIRE TO WIRE	Connector Type	TH80FW-CS16-TM4	<table border="1"> <tr> <td>Terminal No.</td> <td>Color of Wire</td> <td>Signal Name [Specification]</td> </tr> <tr> <td>91</td> <td>L</td> <td>-</td> </tr> <tr> <td>96</td> <td>P</td> <td>-</td> </tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	91	L	-	96	P	-
Connector No.	M11															
Connector Name	WIRE TO WIRE															
Connector Type	TH80FW-CS16-TM4															
Terminal No.	Color of Wire	Signal Name [Specification]														
91	L	-														
96	P	-														
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Connector No.	M14															
Connector Name	WIRE TO WIRE															
Connector Type	NS18FW-CS															
Terminal No.	Color of Wire	Signal Name [Specification]														
1	LG	-														
8	V	-														
<table border="1"> <tr> <td>Connector No.</td> <td>M19</td> </tr> <tr> <td>Connector Name</td> <td>WIRE TO WIRE</td> </tr> <tr> <td>Connector Type</td> <td>NS18MW-CS</td> </tr> </table>  	Connector No.	M19	Connector Name	WIRE TO WIRE	Connector Type	NS18MW-CS	<table border="1"> <tr> <td>Terminal No.</td> <td>Color of Wire</td> <td>Signal Name [Specification]</td> </tr> <tr> <td>3</td> <td>R</td> <td>-</td> </tr> <tr> <td>10</td> <td>G</td> <td>-</td> </tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	3	R	-	10	G	-
Connector No.	M19															
Connector Name	WIRE TO WIRE															
Connector Type	NS18MW-CS															
Terminal No.	Color of Wire	Signal Name [Specification]														
3	R	-														
10	G	-														

JCNWM1639GI

# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BASE AUDIO]

## BASE AUDIO

Connector No.	M22
Connector Name	TWEETER RH
Connector Type	TK22FR



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

Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK33FGY-1V



Terminal No.	Color of Wire	Signal Name [Specification]
24	BR	-
31	GR	-
32	O	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAP4QFW



Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L
31	L	VEHICLE SPEED (8-PULSE)

Connector No.	M46
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	SOUND SIGNAL FRONT LH (+)
3	G	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	LG	SOUND SIGNAL REAR LH (-)
6	BR	STEERING SW SIGNAL A (Without telephone)
7	SB	ACC
11	O	SOUND SIGNAL FRONT RH (+)
12	W	SOUND SIGNAL FRONT RH (-)
13	L	SOUND SIGNAL REAR RH (+)
14	P	SOUND SIGNAL REAR RH (-)
15	GR	STEERING SW SIGNAL GND

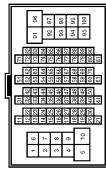
Terminal No.	16	O	STEERING SW SIGNAL B
Terminal No.	18	L	VEHICLE SPEED SIGNAL (8-PULSE)
Terminal No.	19	Y	BAT

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW-NH



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

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MY-CS16-TM4



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

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AV

JCNWM1640GI



# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >



[BASE AUDIO]

## BASE AUDIO

Connector No.	M80	Connector No.	M401
Connector Name	TWEETER LH	Connector Name	AUDIO UNIT
Connector Type	TK2FBR	Connector Type	GT13SH-2/1S-HU






Terminal No.	Color of Wire	Signal Name [Specification]
1	B	- [Without BOSE system]
2	GR	- [With BOSE system]



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

Connector No.	M352
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK6BEGY



Terminal No.	Color of Wire	Signal Name [Specification]
16	-	-
17	-	-
20	-	-

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	NS10MH-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	O	-
6	W	-

Connector No.	M402
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/1S-HU



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

Connector No.	M403
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-1/1PP-HU

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

Connector No.	M404
Connector Name	RADIO ANTENNA
Connector Type	GT13SSN-1/1PP-HU

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

JCNWM1641GI



## SYMPTOM DIAGNOSIS

### AUDIO SYSTEM

#### Symptom Table

INFOID:000000005255087

#### AUDIO SYSTEM

Symptoms	Check items	Possible malfunction location / Action to take
Audio sound is not heard.	No sound from all speakers.	Audio unit power supply and ground circuit. Refer to <a href="#">AV-11. "AUDIO UNIT : Diagnosis Procedure"</a> .
	Sound is not heard only from the specific places.	Sound signal circuit of malfunctioning system.

#### RELATED TO STEERING SWITCH

Symptoms	Possible malfunction location / Action to take
All steering switches are not operated.	Steering switch signal ground circuit. Refer to <a href="#">AV-16. "Diagnosis Procedure"</a> .
Only specified switch cannot be operated.	Replace steering switch.
"SEEK UP", "VOL UP" and "SOURCE" switches are not operated.	Steering switch signal A circuit. Refer to <a href="#">AV-12. "Diagnosis Procedure"</a> .
"SEEK DOWN", "VOL DOWN" and "POWER" switches are not operated.	Steering switch signal B circuit. Refer to <a href="#">AV-14. "Diagnosis Procedure"</a> .

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# NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BASE AUDIO]

## NORMAL OPERATING CONDITION

### Description

INFOID:000000005255088

#### RELATED TO AUDIO

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

#### NOTE:

- CD-R is not guaranteed to play because they can contain compressed audio (MP3, WMA) or could be incorrectly mastered by the customer on a computer. (6CD models)
- Check that the CDs carry the Compact Disc Logo. If not, the disc is not mastered to the red book Compact Disc Standard and may not play.

Symptoms	Cause and Counter measure
Cannot play	Check that the CD was inserted correctly.
	Check that the CD is scratched or dirty.
	Check that there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.
	The player will play correctly after it returns to the normal temperature if there is a temperature increase error.
	Only the music CD files (CD-DA data) will be played if there is a mixture of music CD files (CD-DA data) and MP3/WMA files on a CD. (6CD models)
	Files with extensions other than “.MP3”, “.WMA”, “.mp3”, or “.wma” cannot be played. (6CD models)
	Check that the finalization process, such as session close and disc close, is done for the disc.
	Check that the CD is protected by copyright.
Poor sound quality	Check that the CD is scratched or dirty.
It takes a relatively long time before the music starts playing.	If there are many folder or file levels on the MP3/WMA CD, or if it is a multi session disc, some time may be required before the music starts playing. (6CD models)
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.

PRECAUTION

PRECAUTIONS  
FOR USA AND CANADA

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

INFOID:000000005255089

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 MEXICO

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

INFOID:000000005255090

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)

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## PRECAUTIONS

< PRECAUTION >

[BASE AUDIO]

- 
- 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.

# PREPARATION

< PREPARATION >

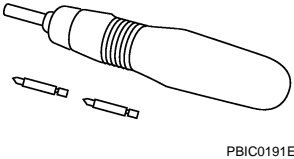
[BASE AUDIO]

## PREPARATION

### PREPARATION

#### Commercial Service Tools

INFOID:000000005255091

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

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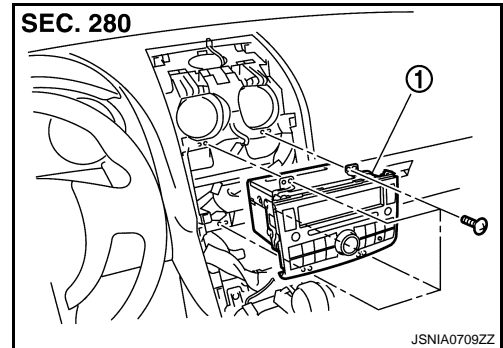
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## REMOVAL AND INSTALLATION

### AUDIO UNIT

#### Exploded View

INFOID:000000005255092



1. Audio unit

### Removal and Installation

INFOID:000000005255093

#### REMOVAL

1. Remove cluster lid C and cluster lid D. Refer to [JP-12, "Exploded View"](#).
2. Remove audio unit mounting screws.
3. Pull out audio unit, remove harness clip, and then disconnect antenna feeder and harness connectors.
4. Remove audio unit and bracket as a unit.
5. Remove brackets from audio unit.

#### INSTALLATION

Install in the reverse order of removal.

# TWEETER

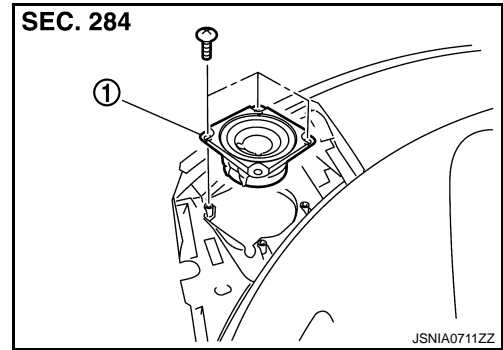
< REMOVAL AND INSTALLATION >

[BASE AUDIO]

## TWEETER

### Exploded View

INFOID:000000005255094



1. Tweeter

### Removal and Installation

INFOID:000000005255095

#### REMOVAL

1. Remove instrument panel. Refer to [JP-13. "Removal and Installation"](#).
2. Remove tweeter from instrument panel.

#### INSTALLATION

Installation is the reverse order of removal.

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# FRONT SPEAKER

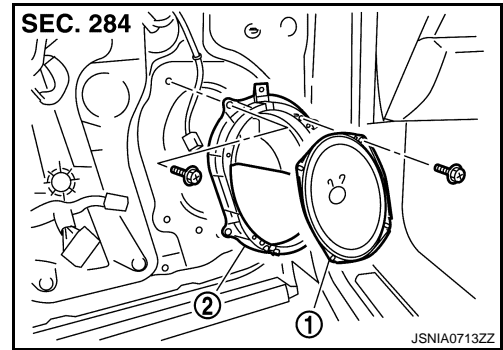
< REMOVAL AND INSTALLATION >

[BASE AUDIO]

## FRONT SPEAKER

### Exploded View

INFOID:000000005255096



1. Front speaker
2. Bracket

### Removal and Installation

INFOID:000000005255097

#### REMOVAL

1. Remove front door finisher. Refer to [INT-12, "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove front door speaker from bracket.

#### INSTALLATION

Install in the reverse order of removal.



# REAR SPEAKER

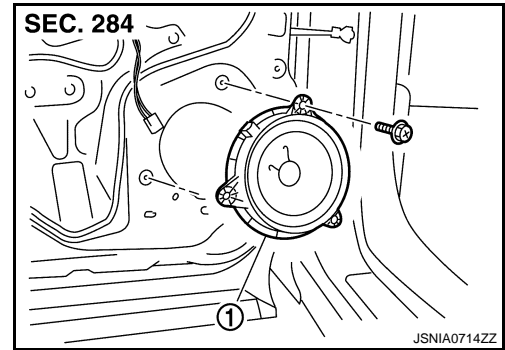
< REMOVAL AND INSTALLATION >

[BASE AUDIO]

## REAR SPEAKER

### Exploded View

INFOID:000000005255098



1. Rear speaker

### Removal and Installation

INFOID:000000005255099

#### REMOVAL

1. Remove rear door finisher. Refer to [INT-15. "REAR DOOR FINISHER : Removal and Installation"](#).
2. Remove rear speaker.

#### INSTALLATION

Installation is the reverse order of removal.

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# STEERING SWITCH

< REMOVAL AND INSTALLATION >

[BASE AUDIO]

---

## STEERING SWITCH

### Exploded View

*INFOID:000000005255100*

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

### Removal and Installation

*INFOID:000000005255101*

#### REMOVAL

Refer to [SR-11, "Removal and Installation"](#).

#### INSTALLATION

Installation is the reverse order of removal.

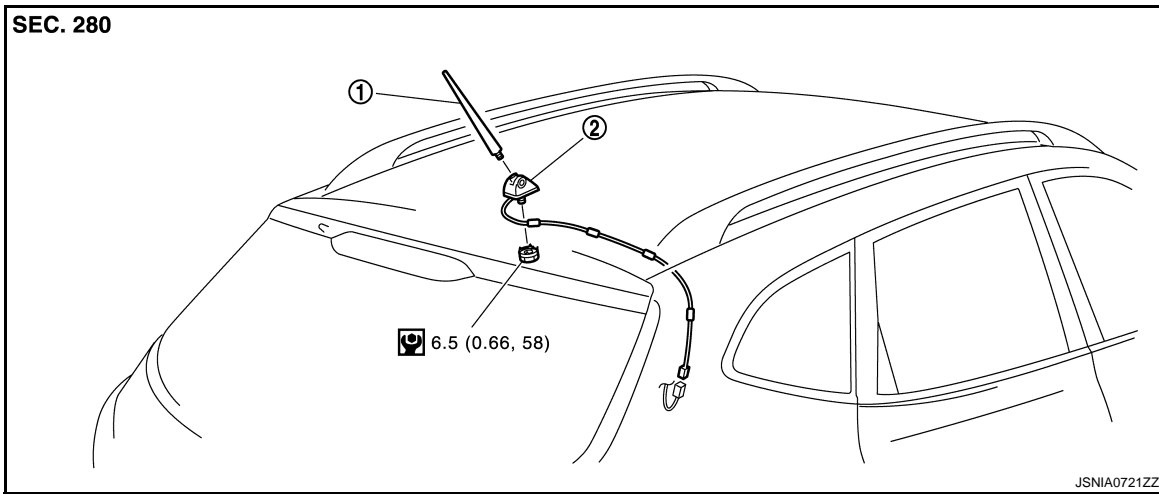
# RADIO ANTENNA

< REMOVAL AND INSTALLATION >

[BASE AUDIO]

## RADIO ANTENNA

### Exploded View



1. Antenna rod

2. Antenna base

### Removal and Installation

INFOID:000000005255103

#### REMOVAL

1. Remove headlining assembly. Refer to [INT-24, "NORMAL ROOF : Removal and Installation"](#) (normal roof models) or [INT-27, "SUNROOF : Removal and Installation"](#) (sunroof models).
2. Remove nuts, and then remove radio antenna.

#### INSTALLATION

Installation is the reverse order of removal.

#### CAUTION:

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

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# ANTENNA FEEDER

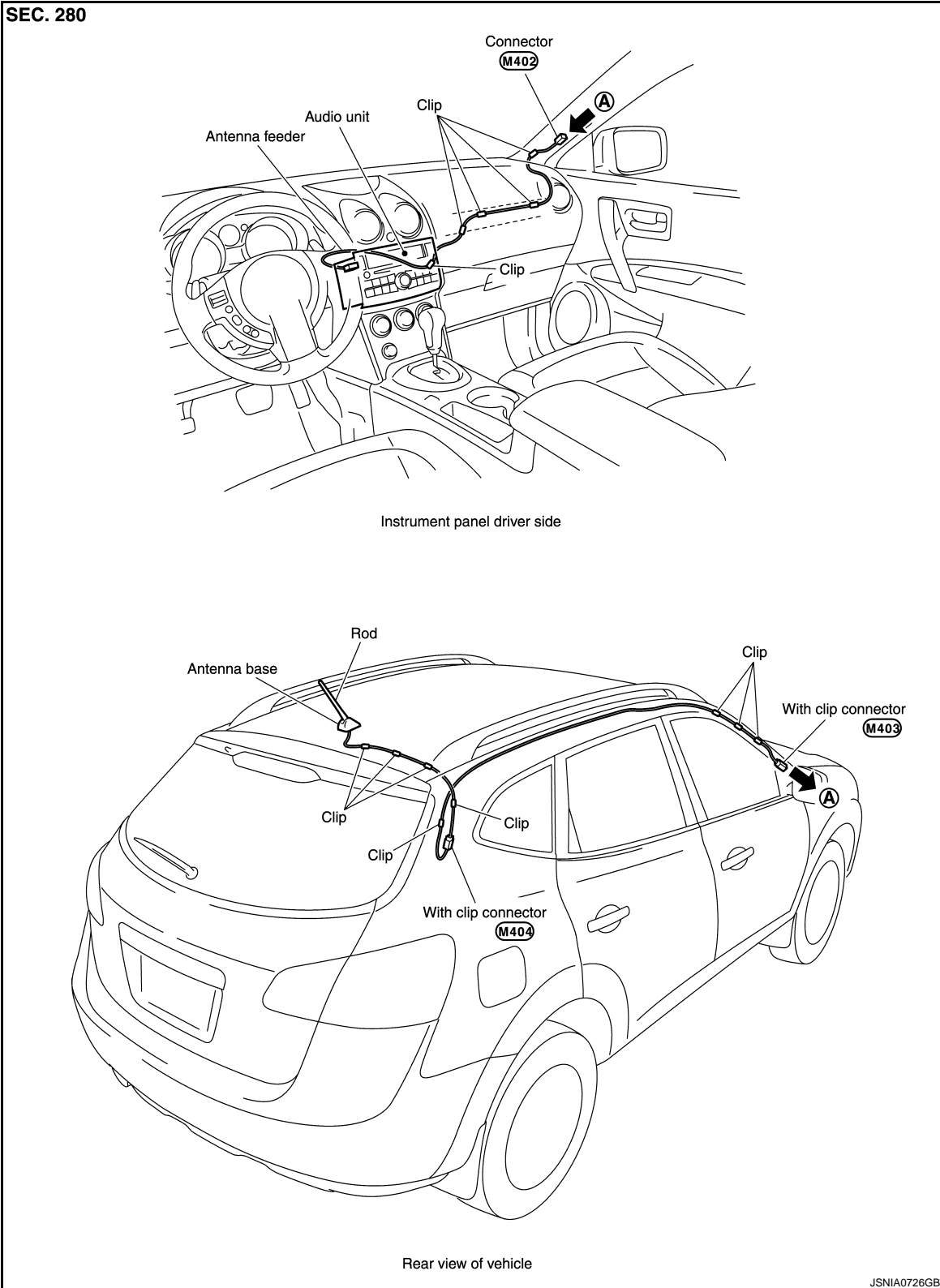
< REMOVAL AND INSTALLATION >

[BASE AUDIO]

## ANTENNA FEEDER

### Location of Antenna

INFOID:000000005255104



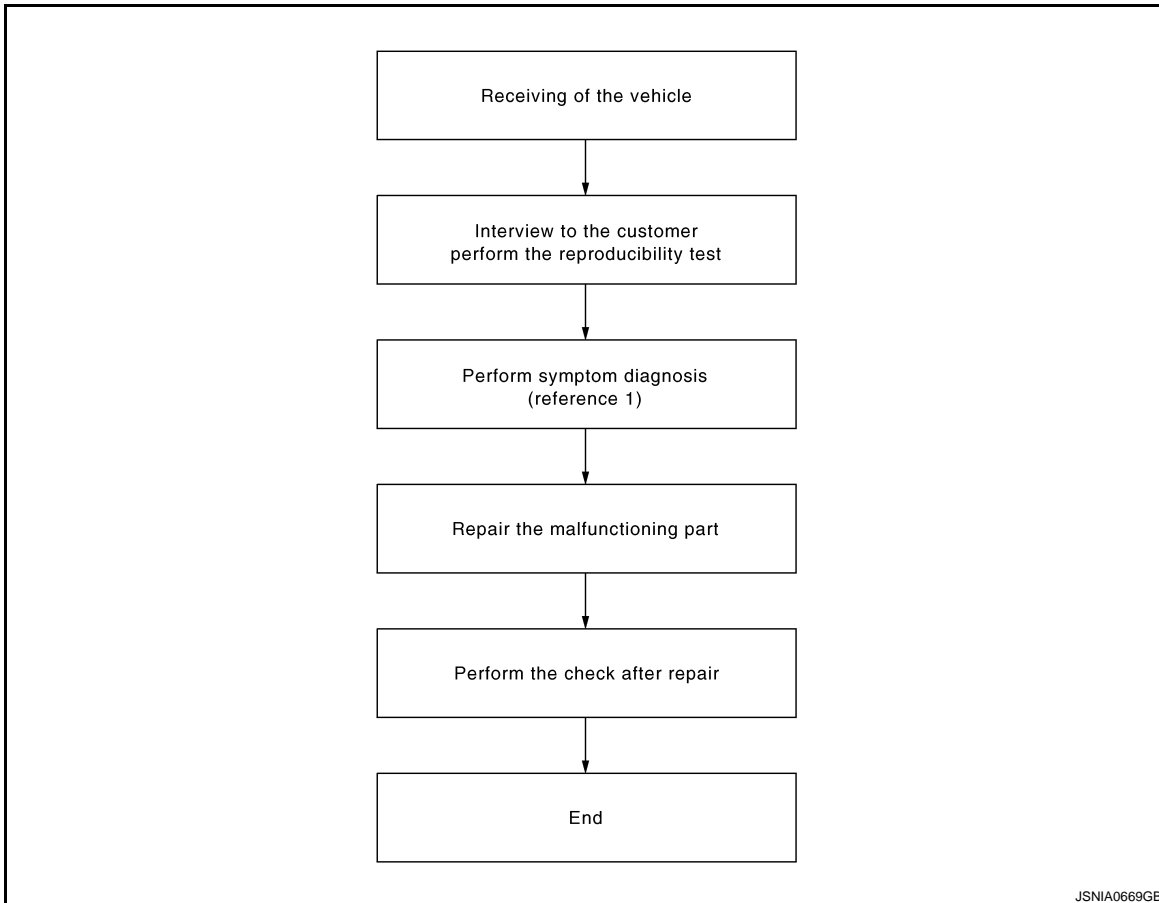
## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORKFLOW

#### Work Flow

INFOID:000000005255105

#### OVERALL SEQUENCE



Reference 1 ... Refer to [AV-145, "Symptom Table"](#).

#### DETAILED FLOW

##### 1. CHECK SYMPTOM

Check the malfunction symptoms by performing the following items.

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

>> GO TO 2.

##### 2. PERFORM DIAGNOSIS BY SYMPTOM

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to [AV-145, "Symptom Table"](#).

>> GO TO 3.

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

Repair or replace the malfunctioning parts.

>> GO TO 4.

## DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[BOSE AUDIO]

---

### 4. FINAL CHECK

---

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

Is there any symptom?

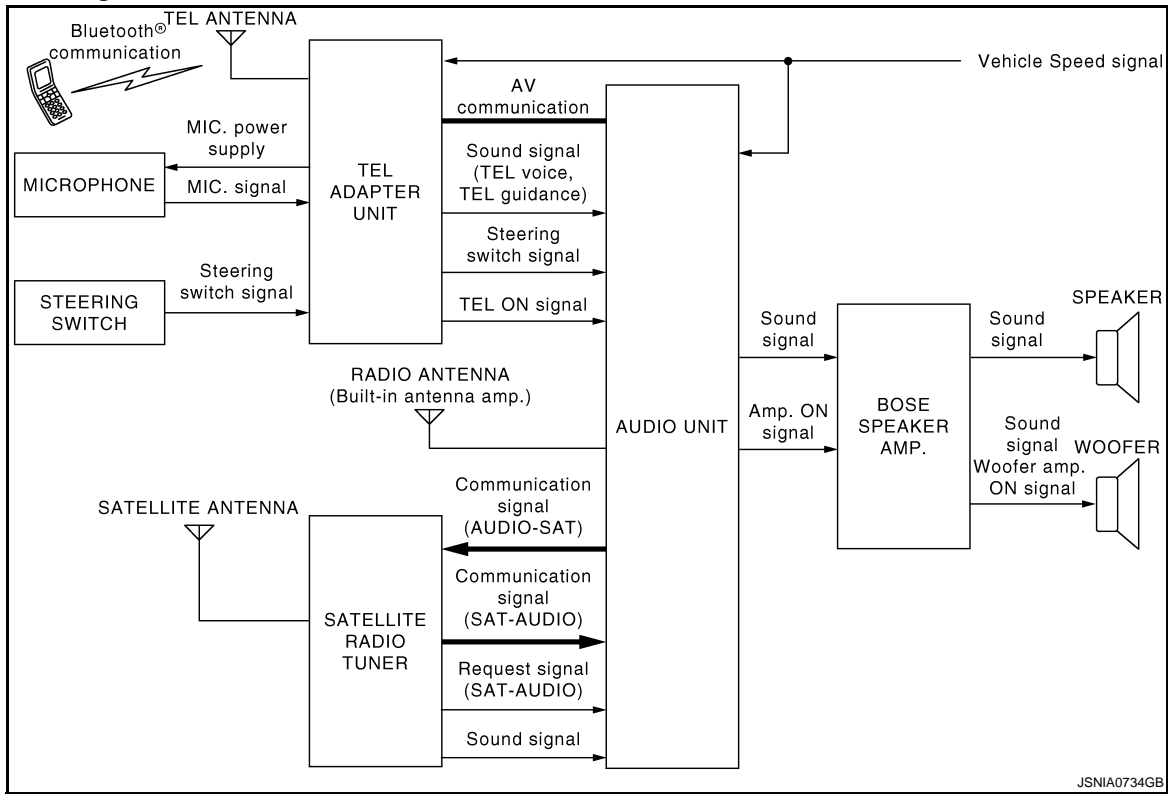
YES >> GO TO 2.

NO >> INSPECTION END

SYSTEM DESCRIPTION

AUDIO SYSTEM

System Diagram



System Description

INFOID:000000005255107

AUDIO SYSTEM

Audio functions

AM/FM radio
6CD

- Radio signal are received by radio antenna, next it is amplified by antenna amp., and finally it is input to audio unit. (Antenna amp. is built into radio antenna.)
- Audio unit outputs sound signal to BOSE amp. and BOSE amp. outputs to each speaker.

SATELLITE RADIO SYSTEM

- Radio signal are supplied to satellite radio tuner from the satellite antenna.
- The satellite radio tuner then sends sound signal to the audio unit.
- Audio unit outputs sound signal to BOSE amp. and BOSE amp. outputs to each speaker.

SPEED SENSITIVE VOLUME

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

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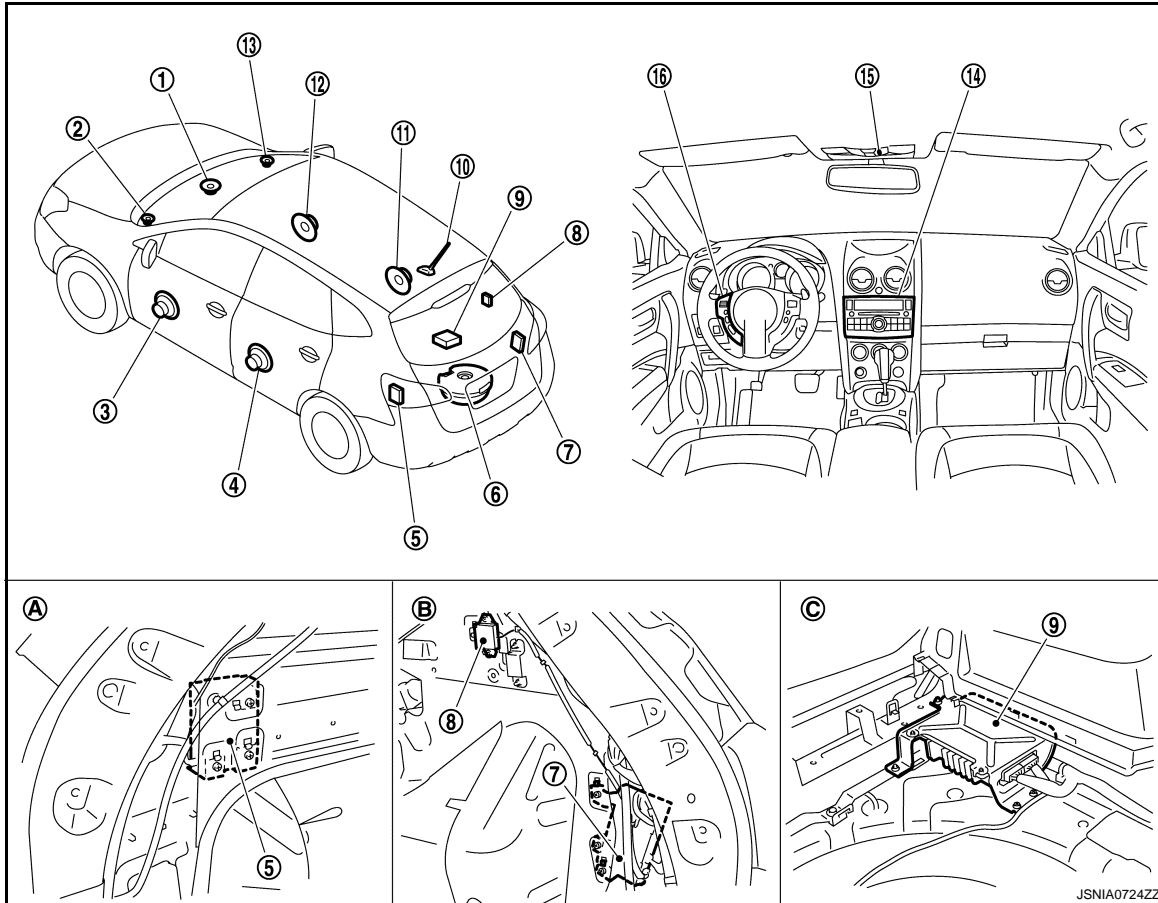
# AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[BOSE AUDIO]

## Component Parts Location

INFOID:000000005255108



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

## Component Description

INFOID:000000005255109

Part name	Description
Audio unit	Controls audio system and satellite radio system functions.
BOSE amp.	<ul style="list-style-type: none"> <li>Receives power (amp. ON) and sound signals from audio unit, and outputs sound signals to each speaker.</li> <li>Woofer amp. ON signal is output to woofer.</li> </ul>
Steering switch	<ul style="list-style-type: none"> <li>Each audio operation can be operated.</li> <li>Steering switch signal (operation signal) is output to audio unit. (without hands-free phone system)</li> <li>Steering switch signal (operation signal) is output to audio unit through TEL adapter unit. (with hands-free phone system)</li> </ul>
Front speaker	<ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs high, mid and low range sounds.</li> </ul>
Tweeter	<ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs high range sounds.</li> </ul>
Center speaker	<ul style="list-style-type: none"> <li>Outputs sound signal from BOSE amp.</li> <li>Outputs mid and high range sounds.</li> </ul>



# AUDIO SYSTEM

< SYSTEM DESCRIPTION >

[BOSE AUDIO]

Part name	Description	
Rear speaker	<ul style="list-style-type: none"> <li>• Outputs sound signal from BOSE amp.</li> <li>• Outputs high, mid and low range sounds.</li> </ul>	A
Woofers	<ul style="list-style-type: none"> <li>• Woofer amp. ON signal is input from BOSE amp.</li> <li>• Outputs sound signal from BOSE amp.</li> <li>• Outputs low range sounds.</li> </ul>	B
Radio & satellite radio antenna	<p>Radio antenna</p> <ul style="list-style-type: none"> <li>• Radio signal received by radio antenna is amplified and sent to audio unit.</li> <li>• Power (antenna amp. ON signal) is supplied from audio unit.</li> </ul> <p>Satellite radio antenna</p> <ul style="list-style-type: none"> <li>• Sound signal (satellite radio) is received and output to audio unit.</li> </ul>	C
Satellite radio tuner	<ul style="list-style-type: none"> <li>• Receives radio signals from satellite antenna.</li> <li>• Sends sound signals to audio unit.</li> </ul>	D

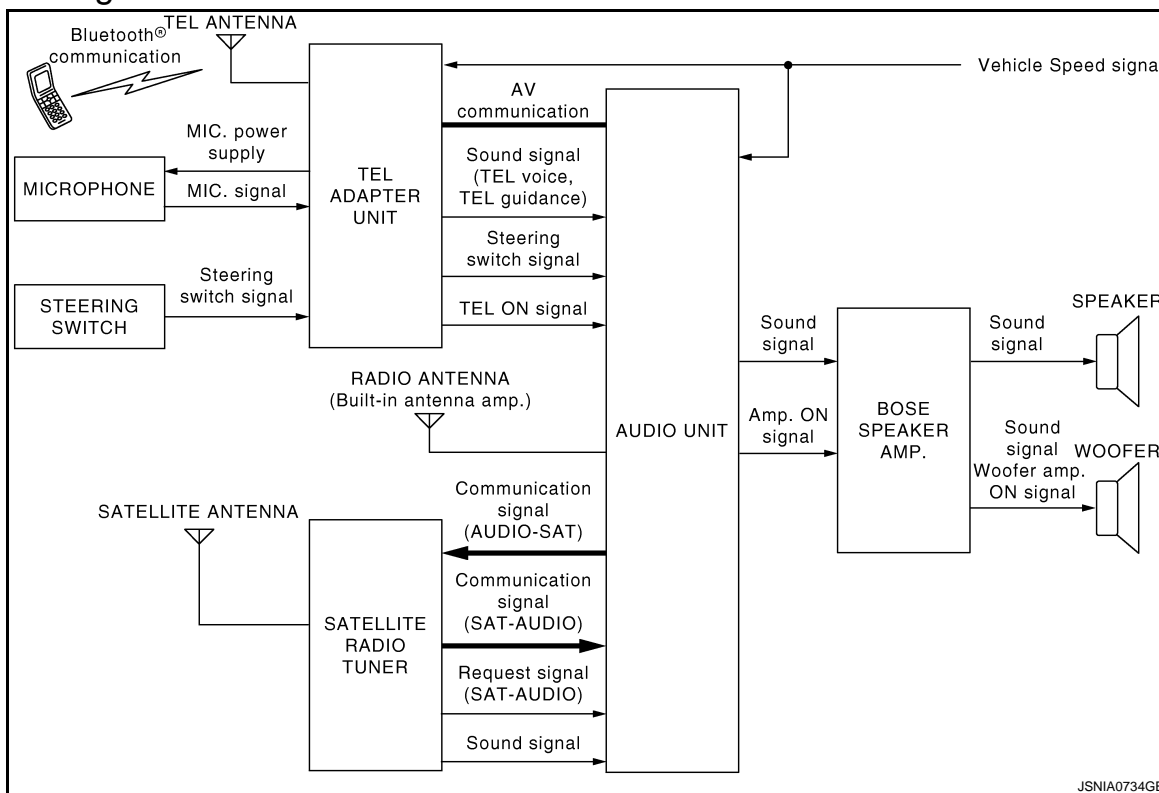
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## HANDS-FREE PHONE SYSTEM

### System Diagram

INFOID:000000005255110



JSNIA0734GB

### System Description

INFOID:000000005255111

- The connection between cellular phone and TEL adapter unit is performed with Bluetooth® communication.
- The voice guidance signal is input from the TEL adapter unit to the audio unit and output via BOSE amp. to the front speaker when operating the telephone.
- TEL adapter unit has the on board self-diagnosis function. Refer to [AV-48. "Diagnosis Description"](#).

#### WHEN RECEIVING A CALL

Telephone voice signal received with the cellular phone is input from TEL antenna via TEL adapter unit to audio unit with Bluetooth communication and output via BOSE amp. to the front speaker. The operation is performed with the steering switch or voice recognition function.

#### WHEN A CALL IS ORIGINATED

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

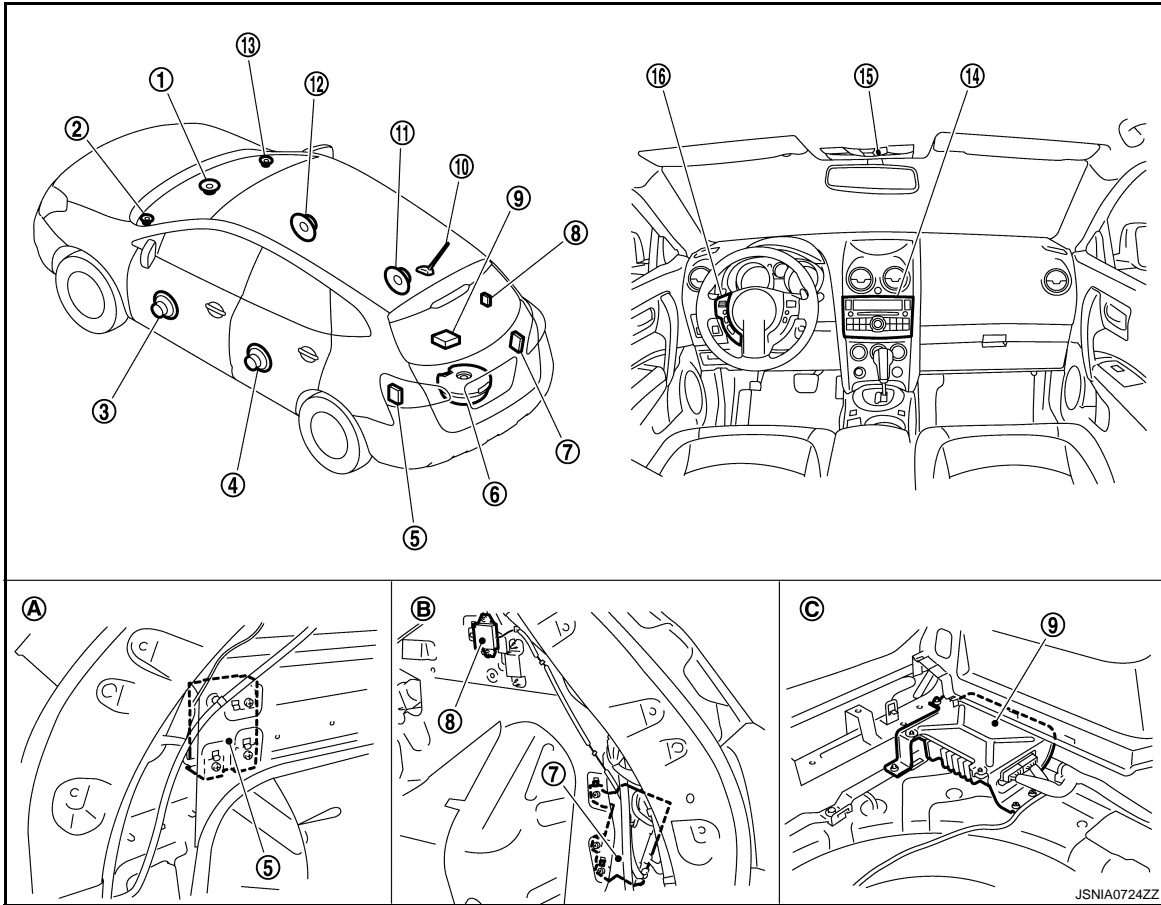
# HANDS-FREE PHONE SYSTEM

< SYSTEM DESCRIPTION >

[BOSE AUDIO]

## Component Parts Location

INFOID:000000005255112



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

## Component Description

INFOID:000000005255113

Part name	Description
Audio unit	<ul style="list-style-type: none"> <li>Receives telephone voice signal from TEL adapter unit.</li> <li>Sends telephone voice and voice guidance signals to BOSE amp.</li> <li>Audio unit and TEL adapter unit exchange data by AV communication, and control audio unit display.</li> </ul>
BOSE amp.	Inputs power (amp. ON) and sound signal from audio unit, and outputs sound signal to each speaker.
Front door speaker	Receives telephone voice and voice guidance signals from BOSE amp.
Tweeter	
Center speaker	
Steering switch	<ul style="list-style-type: none"> <li>The hands-free phone system can be operated.</li> <li>Steering switch signal (operation signal) is output to audio unit through TEL adapter unit.</li> </ul>
Microphone	<ul style="list-style-type: none"> <li>Uses when operating the hands-free phone.</li> <li>Outputs microphone signal (telephone voice signal) to the TEL adapter unit.</li> <li>The power (microphone power supply) is supplied from the TEL adapter unit.</li> </ul>

# HANDS-FREE PHONE SYSTEM

< SYSTEM DESCRIPTION >

[BOSE AUDIO]

Part name	Description
TEL adapter unit	<ul style="list-style-type: none"><li>• Receives the steering switch signal (operation signal) from the steering switch.</li><li>• Inputs the telephone voice signal from TEL antenna during reception and outputs into the audio unit.</li><li>• Inputs the telephone voice signal from microphone during speech recognition and outputs it to the TEL antenna.</li></ul>
TEL antenna	Connects with the cellular phone via Bluetooth® communication and communicates the telephone voice signal.

## DIAGNOSIS SYSTEM (AUDIO UNIT)

### Diagnosis Description

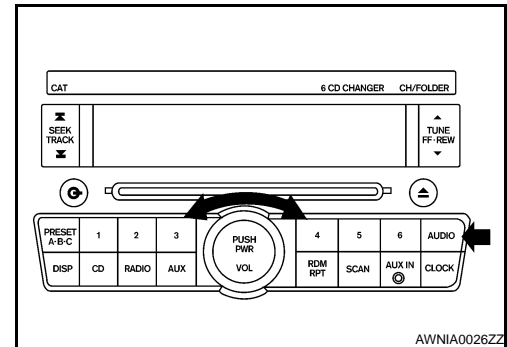
INFOID:000000005255114

Self-diagnosis mode can check the following items.

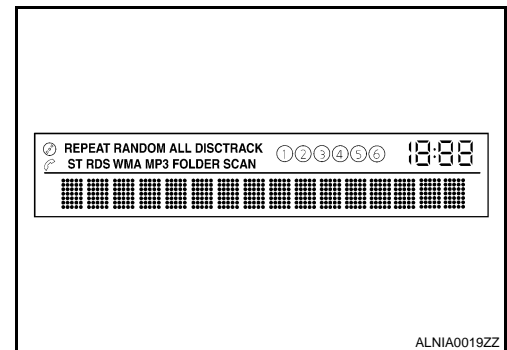
- Audio unit hardware/software versions
- Continuity of each speaker channel
- Continuity of each audio unit switch

### OPERATION PROCEDURE

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

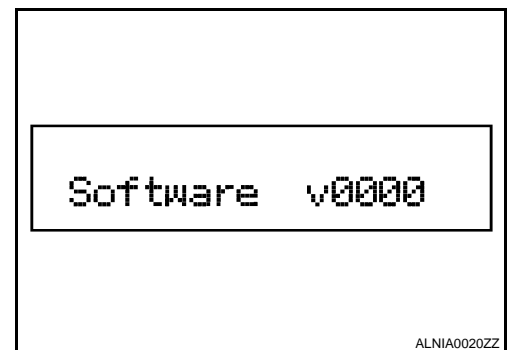


4. Initially, all display segments will be illuminated.



### Version Check

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



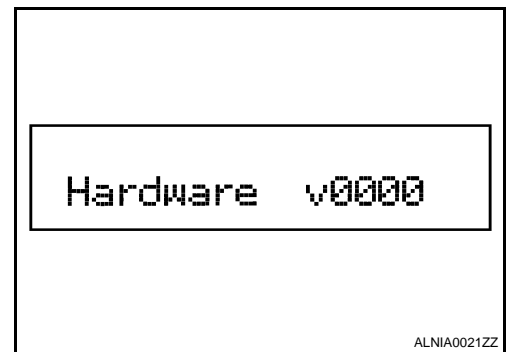
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# DIAGNOSIS SYSTEM (AUDIO UNIT)

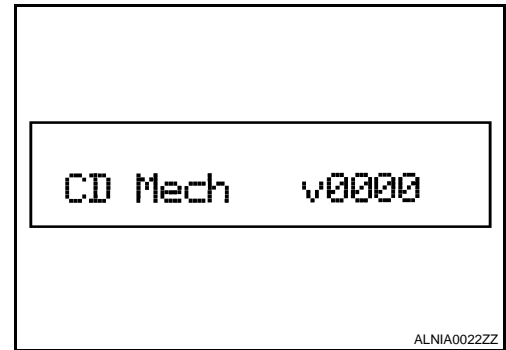
[BOSE AUDIO]

< SYSTEM DESCRIPTION >

2. Press the "AUDIO" switch again to display the "Hardware" (audio hardware version).



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

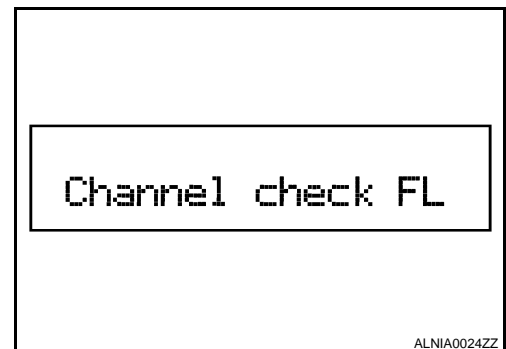


4. Press the "AUDIO" switch again to display the "SDARS" (satellite radio version).



## Channel Check Diagnostics

When all segments are illuminated, press the "TUNE" up switch to enter channel check diagnostics. The self-diagnostic function will then send a tone to each channel (FL, RL, RR, FR) for 1 second.



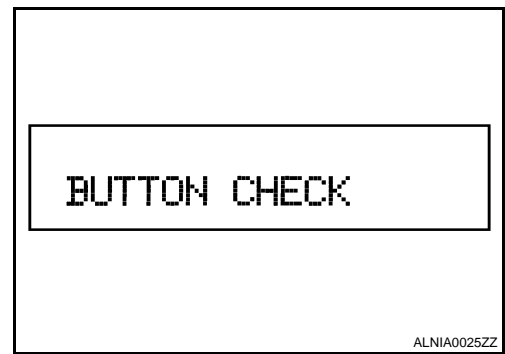
## Button Check Diagnostics

# DIAGNOSIS SYSTEM (AUDIO UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO]

When all segments are illuminated, press the "TUNE" down switch to enter button check diagnostics. When each audio unit switch is pressed, a tone will sound and the switch name will be displayed.



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AV

# DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO]

## DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

### Diagnosis Description

INFOID:000000005255115

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

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

#### ON BOARD DIAGNOSIS ITEM

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

#### CAUTION:

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

STEP	MODE	Description
STEP 1	Self-diagnosis	The self-diagnosis mode performs the microphone test and the diagnosis of TEL adapter unit, TEL antenna and steering unit, and then reads out the results with the sound and indicates them on the audio screen.
STEP 2	Hands free phone system initialization	Hands-free phone system initialization mode can perform the initialization of hands-free phone system.
	Speaker adaptation data deleting	The speaker adaptation data deleting mode can delete the speaker adaptation data.

#### SELF-DIAGNOSIS RESULTS

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

#### NOTE:

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

#### Self-diagnosis results

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

#### The Details of Error Count

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

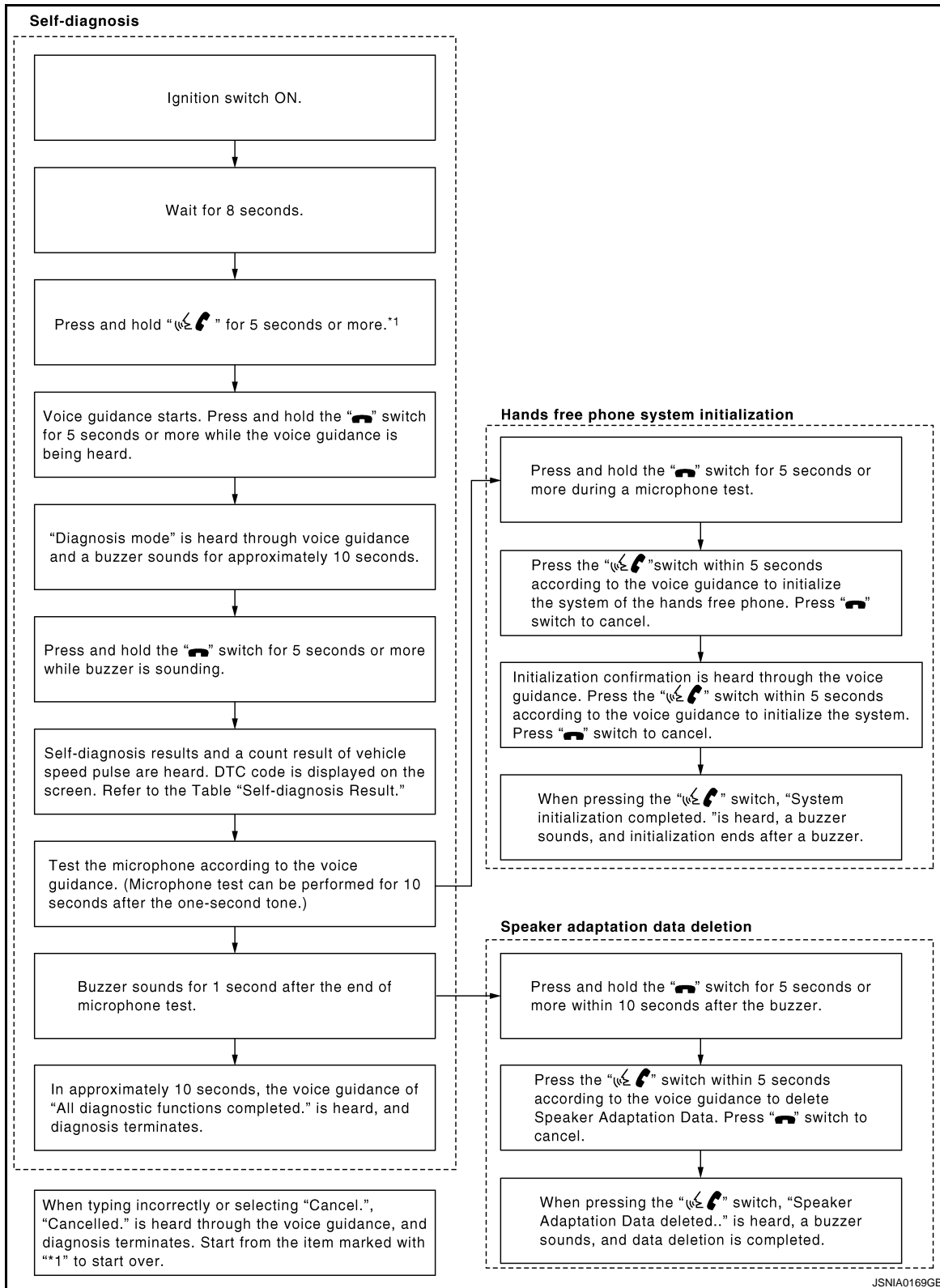


# DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

< SYSTEM DESCRIPTION >

[BOSE AUDIO]

## FLOW CHART OF TROUBLE DIAGNOSIS



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# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

## DTC/CIRCUIT DIAGNOSIS

### POWER SUPPLY AND GROUND CIRCUIT AUDIO UNIT

#### AUDIO UNIT : Diagnosis Procedure

INFOID:000000005255116

#### 1.CHECK FUSE

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

Power source	Fuse No.
Battery	35
Ignition switch ACC or ON	20

Is inspection result OK?

YES >> GO TO 2.

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

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

Check voltage between the audio unit and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Voltage
Battery power supply	M46	19	OFF	Battery voltage
ACC power supply	M46	7	ACC	Battery voltage

Is inspection result OK?

YES >> INSPECTION END

NO >> Check harness between audio unit and fuse.

### BOSE AMP.

#### BOSE AMP. : Diagnosis Procedure

INFOID:000000005255117

#### 1.CHECK FUSE

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

Power source	Fuse No.
Battery	13

Is inspection result OK?

YES >> GO TO 2.

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

#### 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between BOSE speaker amp harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Voltage
Battery power supply	B64	11	OFF	Battery voltage

Is inspection result OK?

YES >> GO TO 3.

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

#### 3.CHECK GROUND CIRCUIT

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

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B64	12	OFF	Continuity should exist.

Is inspection result OK?

YES >> INSPECTION END

NO >> Repair harness or connector.

## SATELLITE RADIO TUNER

### SATELLITE RADIO TUNER : Diagnosis Procedure

INFOID:0000000005255118

#### 1.CHECK FUSES

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

Power source	Fuse No.
Battery	35
Ignition switch ACC or ON	20

Is inspection result OK?

YES >> GO TO 2.

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

#### 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between the satellite radio tuner and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Voltage
Battery power supply	B19	12	OFF	Battery voltage
ACC power supply	B19	16	ACC	Battery voltage

Is inspection result OK?

YES >> INSPECTION END

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

## TEL ADAPTER UNIT

### TEL ADAPTER UNIT : Diagnosis Procedure

INFOID:0000000005255119

#### 1.CHECK FUSES

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

Power source	Fuse No.
Battery	35
Ignition switch ACC or ON	20
Ignition switch ON or START	1

Is inspection result OK?

YES >> GO TO 2.

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

#### 2.CHECK POWER SUPPLY CIRCUIT

Check voltage between TEL adapter unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Voltage
Battery power supply	B6	1	OFF	Battery voltage
ACC power supply	B6	2	ACC	Battery voltage
Ignition signal	B6	3	ON	Battery voltage

Is inspection result OK?

# POWER SUPPLY AND GROUND CIRCUIT

[BOSE AUDIO]

< DTC/CIRCUIT DIAGNOSIS >

- 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	B6	4	OFF	Continuity should exist.
		21	OFF	Continuity should exist.
		22	OFF	Continuity should exist.
		23	OFF	Continuity should exist.
		24	OFF	Continuity should exist.

Is inspection result OK?

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

# STEERING SWITCH SIGNAL A CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

## STEERING SWITCH SIGNAL A CIRCUIT

### Description

INFOID:000000005255120

Transmits the steering switch signal to audio unit.

### Diagnosis Procedure

INFOID:000000005255121

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

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

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

4. Check continuity between audio unit harness connector.

Audio unit		Ground	Continuity
Connector	Terminal		
M46	6		Not existed

Is inspection result OK?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2.CHECK SPIRAL CABLE

Check spiral cable.

Is inspection result OK?

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.

(+)		(-)		Voltage (Approx.)
Audio unit		Audio unit		
Connector	Terminal	Connector	Terminal	
M46	6	M46	15	3.3 V

Is inspection result OK?

YES >> GO TO 4.

NO >> Replace audio unit.

#### 4.CHECK STEERING SWITCH

1. Turn ignition switch ON.
2. Check steering switch. Refer to [AV-54. "Component Inspection"](#).

Is inspection result OK?

YES >> INSPECTION END

NO >> Replace steering switch.

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# STEERING SWITCH SIGNAL A CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

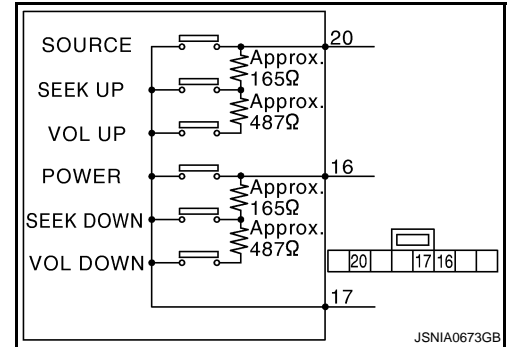
INFOID:000000005255122

## Component Inspection

Measure the resistance between the steering switch connector.

Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
16	17	VOL UP switch ON	645 – 659
		SEEK UP switch ON	163 – 167
		SOURCE switch ON	0
20	17	VOL DOWN switch ON	645 – 659
		SEEK DOWN switch ON	163 – 167
		POWER switch ON	0



# STEERING SWITCH SIGNAL B CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

## STEERING SWITCH SIGNAL B CIRCUIT

### Description

INFOID:000000005255123

Transmits the steering switch signal to audio unit.

### Diagnosis Procedure

INFOID:000000005255124

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

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

Audio unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
M46	16	M33	32	Existed

4. Check continuity between audio unit harness connector.

Audio unit		Ground	Continuity
Connector	Terminal		
M46	16		Not existed

Is inspection result OK?

YES >> GO TO 2.

NO >> Repair harness or connector.

#### 2. CHECK SPIRAL CABLE

Check spiral cable.

Is inspection result OK?

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.

(+)		(-)		Voltage (Approx.)
Audio unit		Audio unit		
Connector	Terminal	Connector	Terminal	
M46	16	M46	15	3.3 V

Is inspection result OK?

YES >> GO TO 4.

NO >> Replace audio unit.

#### 4. CHECK STEERING SWITCH

1. Turn ignition switch ON.
2. Check steering switch. Refer to [AV-56. "Component Inspection"](#).

Is inspection result OK?

YES >> INSPECTION END

NO >> Replace steering switch.

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# STEERING SWITCH SIGNAL B CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

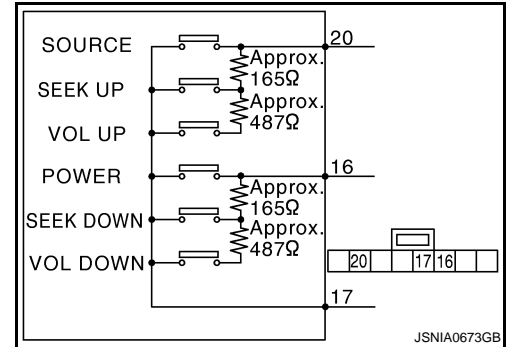
INFOID:000000005255125

## Component Inspection

Measure the resistance between the steering switch connector.

Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
16	17	VOL UP switch ON	645 – 659
		SEEK UP switch ON	163 – 167
		SOURCE switch ON	0
20	17	VOL DOWN switch ON	645 – 659
		SEEK DOWN switch ON	163 – 167
		POWER switch ON	0





# STEERING SWITCH SIGNAL GND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

## STEERING SWITCH SIGNAL GND CIRCUIT

### Description

INFOID:000000005255126

Transmits the steering switch signal to audio unit.

### Diagnosis Procedure

INFOID:000000005255127

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

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

Audio unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
M46	15	M33	31	Existed

#### Is inspection result OK?

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

#### 2. CHECK SPIRAL CABLE

Check spiral cable.

#### Is inspection result OK?

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

#### 3. CHECK GROUND CIRCUIT

1. Connect audio unit connector.
2. Check continuity between audio unit harness connector terminals 15 and ground.

Audio unit		Ground	Continuity
Connector	Terminal		
M46	15		Existed

#### Is inspection result OK?

- YES >> GO TO 4.  
NO >> Replace audio unit.

#### 4. CHECK STEERING SWITCH

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

#### Is inspection result OK?

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

### Component Inspection

INFOID:000000005255128

Measure the resistance between the steering switch connector.

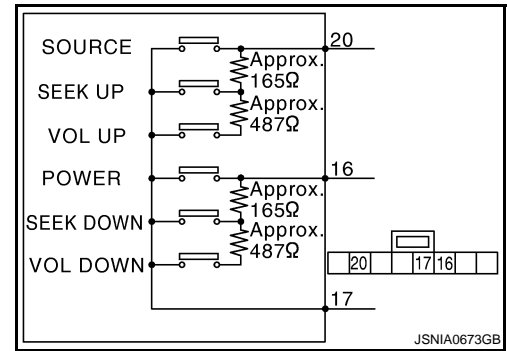
# STEERING SWITCH SIGNAL GND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
16	17	VOL UP switch ON	645 – 659
		SEEK UP switch ON	163 – 167
		SOURCE switch ON	0
20	17	VOL DOWN switch ON	645 – 659
		SEEK DOWN switch ON	163 – 167
		POWER switch ON	0



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

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

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

### Description

INFOID:000000005255129

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

### Diagnosis Procedure

INFOID:000000005255130

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

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

TEL adapter unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
B6	12	M33	24	Existed

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

TEL adapter unit		Ground	Continuity
Connector	Terminal		
B6	12		Not existed

#### Is inspection result OK?

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

#### 2. CHECK SPIRAL CABLE

Check spiral cable.

#### Is inspection result OK?

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

#### 3. CHECK TEL ADAPTER UNIT VOLTAGE

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

(+)		(-)		Voltage (Approx.)
TEL adapter unit		TEL adapter unit		
Connector	Terminal	Connector	Terminal	
B6	12	B6	14	5.0 V

#### Is inspection result OK?

- YES >> GO TO 4.  
NO >> Replace TEL adapter unit.

#### 4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-60, "Component Inspection"](#).

#### Is inspection result OK?

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

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

< DTC/CIRCUIT DIAGNOSIS >



[BOSE AUDIO]

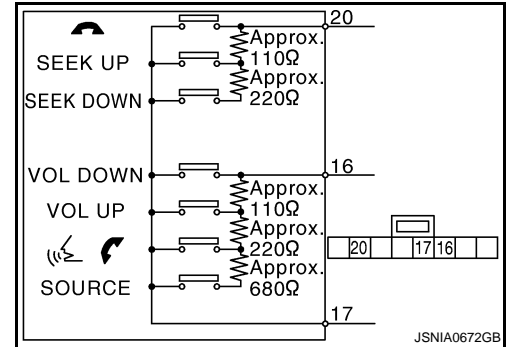
## Component Inspection

INFOID:000000005255131

Measure the resistance between the steering switch connector.

Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
16	17	SOURCE switch ON	1000 – 1020
		 switch ON	327 – 333
		VOL UP switch ON	109 – 111
		VOL DOWN switch ON	0
20	17	SEEK DOWN switch ON	327 – 333
		SEEK UP switch ON	109 – 111
		 switch ON	0



JSNIA0672GB

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

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

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

### Description

INFOID:000000005255132

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

### Diagnosis Procedure

INFOID:000000005255133

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

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

TEL adapter unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
B6	13	M33	32	Existed

4. Check continuity between audio unit harness connector.

TEL adapter unit		Ground	Continuity
Connector	Terminal		
B6	13		Not existed

#### Is inspection result OK?

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

#### 2. CHECK SPIRAL CABLE

Check spiral cable.

#### Is inspection result OK?

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

#### 3. CHECK TEL ADAPTER UNIT VOLTAGE

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

(+)		(-)		Voltage (Approx.)
TEL adapter unit		TEL adapter unit		
Connector	Terminal	Connector	Terminal	
B6	13	B6	14	5.0 V

#### Is inspection result OK?

- YES >> GO TO 4.  
NO >> Replace TEL adapter unit.

#### 4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-62, "Component Inspection"](#).

#### Is inspection result OK?

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

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

< DTC/CIRCUIT DIAGNOSIS >



[BOSE AUDIO]

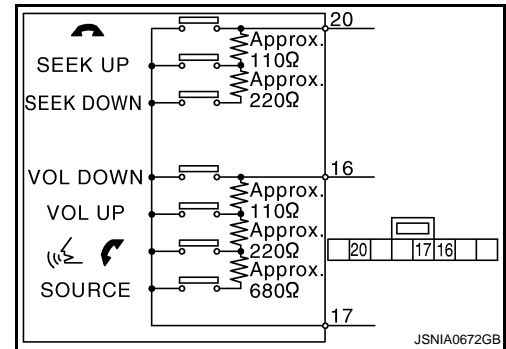
## Component Inspection

INFOID:000000005255134

Measure the resistance between the steering switch connector.

Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
16	17	SOURCE switch ON	1000 – 1020
		 switch ON	327 – 333
		VOL UP switch ON	109 – 111
		VOL DOWN switch ON	0
20	17	SEEK DOWN switch ON	327 – 333
		SEEK UP switch ON	109 – 111
		 switch ON	0



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

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

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

### Description

INFOID:000000005255135

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

### Diagnosis Procedure

INFOID:000000005255136

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

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

TEL adapter unit		Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	
B6	14	M33	31	Existed

#### Is inspection result OK?

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

#### 2. CHECK SPIRAL CABLE

Check spiral cable.

#### Is inspection result OK?

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

#### 3. CHECK GROUND CIRCUIT

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

TEL adapter unit		Ground	Continuity
Connector	Terminal		
B6	14		Existed

#### Is inspection result OK?

- YES >> GO TO 4.  
NO >> Replace TEL adapter unit.

#### 4. CHECK STEERING SWITCH

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

#### Is inspection result OK?

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

### Component Inspection

INFOID:000000005255137



Measure the resistance between the steering switch connector.

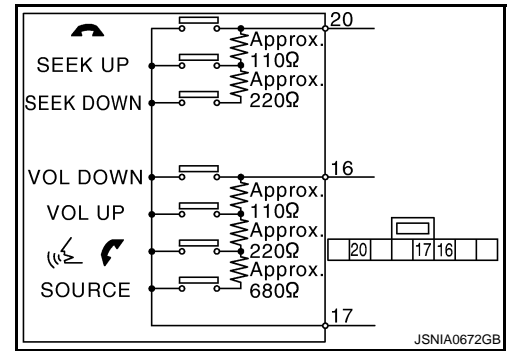
# STEERING SWITCH SIGNAL GND CIRCUIT (STEERING SWITCH TO TEL ADAPTER UNIT)

[BOSE AUDIO]

< DTC/CIRCUIT DIAGNOSIS >

Standard

Steering switch		Condition	Resistance Ω
Terminal	Terminal		
16	17	SOURCE switch ON	1000 – 1020
		 switch ON	327 – 333
		VOL UP switch ON	109 – 111
		VOL DOWN switch ON	0
20	17	SEEK DOWN switch ON	327 – 333
		SEEK UP switch ON	109 – 111
		 switch ON	0





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

< DTC/CIRCUIT DIAGNOSIS >

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

### Description

INFOID:000000005255138

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

### Diagnosis Procedure

INFOID:000000005255139

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

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

Audio unit		TEL adapter unit		Continuity
Connector	Terminal	Connector	Terminal	
M46	6	B6	17	Existed

4. Check continuity between audio unit harness connector.

Audio unit		Ground	Continuity
Connector	Terminal		
M46	6		Not existed

#### Is inspection result OK?

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

#### 2. CHECK AUDIO UNIT VOLTAGE

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

(+)		(-)		Voltage (Approx.)
Audio unit		Audio unit		
Connector	Terminal	Connector	Terminal	
M46	6	M46	15	3.3 V

#### Is inspection result OK?

- YES >> Replace TEL adapter unit.  
 NO >> Replace audio unit.

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

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

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

### Description

INFOID:000000005255140

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

### Diagnosis Procedure

INFOID:000000005255141

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

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

Audio unit		TEL adapter unit		Continuity
Connector	Terminal	Connector	Terminal	
M46	16	B6	18	Existed

4. Check continuity between audio unit harness connector terminal.

Audio unit		Ground	Continuity
Connector	Terminal		
M46	16		Not existed

#### Is inspection result OK?

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

## 2. CHECK AUDIO UNIT VOLTAGE

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

(+)		(-)		Voltage (Approx.)
Audio unit		Audio unit		
Connector	Terminal	Connector	Terminal	
M46	16	M46	15	3.3 V

#### Is inspection result OK?

- YES >> Replace TEL adapter unit.  
 NO >> Replace audio unit.

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

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

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

### Description

INFOID:000000005255142

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

### Diagnosis Procedure

INFOID:000000005255143

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

1. Turn ignition switch OFF.
2. Disconnect audio unit connector and TEL adapter unit connector.
3. Check continuity between audio unit harness connector terminal 15 and TEL adapter unit harness connector terminal 19.

Audio unit		TEL adapter unit		Continuity
Connector	Terminal	Connector	Terminal	
M46	15	B6	19	Existed

#### Is inspection result OK?

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

#### 2. CHECK GROUND CIRCUIT

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

Audio unit		Ground	Continuity
Connector	Terminal		
M46	15		Existed

#### Is inspection result OK?

- YES >> Replace TEL adapter unit.  
NO >> Replace audio unit.

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# COMMUNICATION SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

## COMMUNICATION SIGNAL CIRCUIT

### Description

INFOID:000000005255144

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

### Diagnosis Procedure

INFOID:000000005255145

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

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

Satellite radio tuner		Audio unit		Continuity
Connector	Terminal	Connector	Terminal	
B19	9	M48	39	Existed
	10		40	Existed

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

Satellite radio tuner		Ground	Continuity
Connector	Terminal		
B19	9		Not existed
	10		

#### Is inspection result OK?

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

#### 2. CHECK AUDIO UNIT

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

Audio unit		Ground	Voltage (Approx.)
Connector	Terminal		
M48	39		4.0 V

#### Is inspection result OK?

- YES >> GO TO 3.  
NO >> Replace audio unit.

#### 3. CHECK SATELLITE RADIO TUNER

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

Satellite radio tuner		Ground	Voltage (Approx)
Connector	Terminal		
B19	10		7.5 V

#### Is inspection result OK?

- YES >> GO TO 4.  
NO >> Replace satellite radio tuner.

# COMMUNICATION SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

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

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

Satellite radio tuner		Condition	Reference value
Connector	Terminal		
B19	9	Ground	

Is inspection result OK?

- YES >> GO TO 5.  
 NO >> Replace satellite radio tuner.

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

Check signal between audio unit harness connector and ground.

Audio unit		Condition	Reference value
Connector	Terminal		
M48	40	Ground	

Is inspection result OK?

- YES >> INSPECTION END  
 NO >> Replace audio unit.

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# REQUEST SIGNAL CIRCUIT (SAT TO AUDIO)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

## REQUEST SIGNAL CIRCUIT (SAT TO AUDIO)

### Description

INFOID:000000005255146

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

### Diagnosis Procedure

INFOID:000000005255147

#### 1. CHECK CONTINUITY REQUEST SIGNAL CIRCUIT

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

Satellite radio tuner		Audio unit		Continuity
Connector	Terminal	Connector	Terminal	
B19	8	M48	38	Existed

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

Satellite radio tuner		Ground	Continuity
Connector	Terminal		
B19	8		Not existed

Is inspection result OK?

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

#### 2. CHECK AUDIO UNIT

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

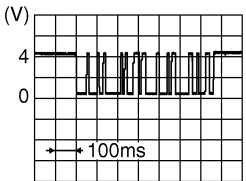
Audio unit		Ground	Voltage (Approx.)
Connector	Terminal		
M48	38		4.0 V

Is inspection result OK?

- YES >> GO TO 3.  
 NO >> Replace audio unit.

#### 3. CHECK CONTINUITY REQUEST SIGNAL

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

Satellite radio tuner		Ground	Condition	Reference value
Connector	Terminal			
B19	8		When satellite radio mode is selected.	 <p>JSNIA0675ZZ</p>

# REQUEST SIGNAL CIRCUIT (SAT TO AUDIO)

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

Is inspection result OK?

YES >> INSPECTION END

NO >> Replace satellite radio tuner.

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# AMP. ON SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

## AMP. ON SIGNAL CIRCUIT

### Description

INFOID:000000005255148

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

### Diagnosis Procedure

INFOID:000000005255149

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

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

Audio unit		BOSE amp.		Continuity
Connector	Terminal	Connector	Terminal	
M46	1	B65	31	Existed

4. Check continuity between audio unit harness connector terminal 1 and ground.

Audio unit		Ground	Continuity
Connector	Terminal		
M46	1		Not existed

Is inspection result OK?

YES >> GO TO 2.

NO >> Repair harness or connector.

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

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

Audio unit		Ground	Voltage (Approx.)
Connector	Terminal		
M46	1		12.0 V

Is inspection result OK?

YES >> Replace BOSE amp.

NO >> Replace audio unit.



# WOOFER AMP. ON SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

## WOOFER AMP. ON SIGNAL CIRCUIT

### Description

INFOID:000000005255150

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

### Diagnosis Procedure

INFOID:000000005255151

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

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

BOSE amp.		Woofer		Continuity
Connector	Terminal	Connector	Terminal	
B65	25	B63	4	Existed

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

BOSE amp.		Ground	Continuity
Connector	Terminal		
B65	25		Not existed

Is inspection result OK?

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

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

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

BOSE amp.		Ground	Voltage (Approx.)
Connector	Terminal		
B65	25		12.0 V

Is inspection result OK?

- YES >> Replace woofer.  
NO >> Replace BOSE amp.

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# MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

## MICROPHONE SIGNAL CIRCUIT

### Description

INFOID:000000005255152

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

### Diagnosis Procedure

INFOID:000000005255153

#### 1. CHECK CONTINUITY BETWEEN TEL ADAPTER UNIT AND MICROPHONE CIRCUIT

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

TEL adapter unit		Microphone		Continuity
Connector	Terminal	Connector	Terminal	
B6	7	R3	1	Existed
	8		2	
	29		4	

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

TEL adapter unit		Ground	Continuity
Connector	Terminal		
B6	7		Not existed
	29		

#### Is inspection result OK?

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

#### 2. CHECK MICROPHONE POWER SUPPLY

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

TEL adapter unit		Ground	Voltage (Approx.)
Connector	Terminal		
B6	29		5.0 V

#### Is inspection result OK?

- YES >> GO TO 3.  
NO >> Replace TEL adapter unit.

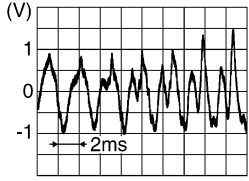
#### 3. CHECK MICROPHONE SIGNAL

1. Turn ignition switch OFF.
2. Connect microphone connector.
3. Turn ignition switch ON.
4. Check signal between TEL adapter unit harness connector terminals 7 and 8.

# MICROPHONE SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

TEL adapter unit		TEL adapter unit		Condition	Reference value
Connector	Terminal	Connector	Terminal		
B6	7	B6	8	Give a voice.	 <p style="text-align: right; font-size: small;">SKIB3609E</p>

Is inspection result OK?

- YES >> INSPECTION END
- NO >> Replace microphone.

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# TELEPHONE ON SIGNAL CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[BOSE AUDIO]

## TELEPHONE ON SIGNAL CIRCUIT

### Description

INFOID:000000005255154

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

### Diagnosis Procedure

INFOID:000000005255155

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

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

TEL adapter unit		Audio unit		Continuity
Connector	Terminal	Connector	Terminal	
B6	11	M47	28	Existed

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

TEL adapter unit		Ground	Continuity
Connector	Terminal		
B6	11		Not existed

#### Is inspection result OK?

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

#### 2. CHECK TELEPHONE ON SIGNAL

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

Audio unit		Ground	Condition	Voltage (Approx.)
Connector	Terminal			
M47	28		While using hands-free phone system	0 V
			While not using hands-free phone system	5.0 V

#### Is inspection result OK?

- YES >> INSPECTION END  
NO >> Replace audio unit.

# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

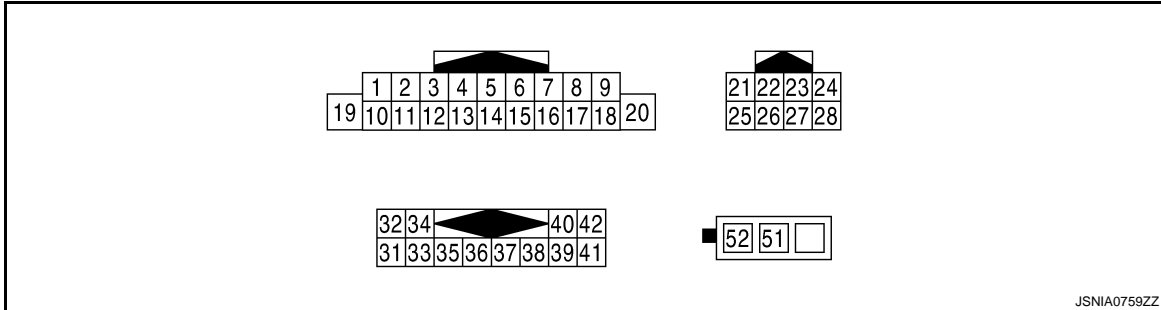
## ECU DIAGNOSIS INFORMATION

### AUDIO UNIT

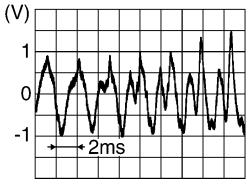
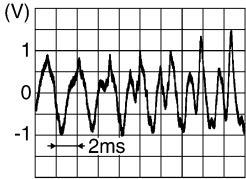
#### Reference Value

INFOID:000000005255156

#### TERMINAL LAYOUT



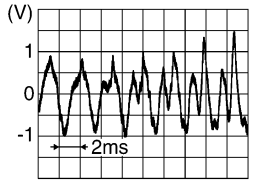
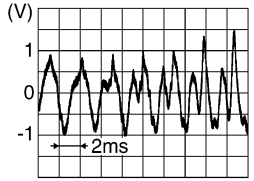
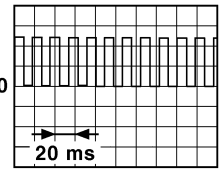
#### PHYSICAL VALUES

Terminal (Wire color)		Description		Condition	Reference value (Approx.)
+	-	Signal name	Input/ Output		
1 (BR)	Ground	BOSE amp. ON signal	Output	Ignition switch ON	—  12.0 V
2 (R)	3 (G)	Sound signal front LH	Output	Ignition switch ON	Sound signal output   <small>SKIB3609E</small>
4 (V)	5 (LG)	Sound signal rear LH	Output	Ignition switch ON	Sound signal output   <small>SKIB3609E</small>
6 (W) (BR)*	15 (GR)	Steering switch signal A	Input	Ignition switch ON	Keep pressing SOURCE switch 0 V
				Keep pressing SEEK UP switch 1.1 V	
				Keep pressing VOL UP switch 2.2 V	
				Except for above 3.3 V	
7 (SB)	Ground	ACC power supply	Input	Ignition switch ACC	—  Battery voltage
9 (R)	8 (Y)	Illumination signal	Input	Ignition switch OFF	Lighting switch is ON 0 V
				Lighting switch is OFF 12.0 V	
10	—	Shield	—	—	—

# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

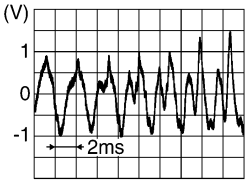
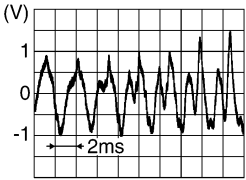
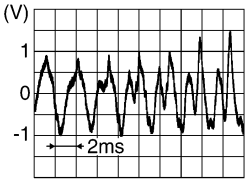
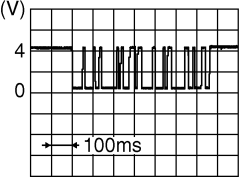
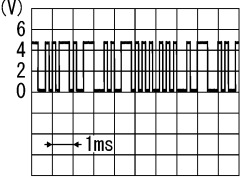
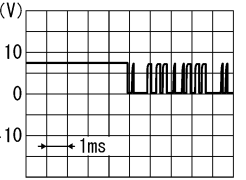
[BOSE AUDIO]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
11 (O)	12 (W)	Sound signal front RH	Output	Ignition switch ON	Sound signal output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
13 (L)	14 (P)	Sound signal rear RH	Output	Ignition switch ON	Sound signal output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
15 (GR)	Ground	Steering switch signal ground	—	Ignition switch ON	—	0 V
16 (O)	15 (GR)	Steering switch signal B	Input	Ignition switch ON	Keep pressing POWER switch*	0 V
					Keep pressing SEEK DOWN switch	1.1 V
					Keep pressing VOL DOWN switch	2.2 V
					Except for above	3.3 V
18 (L)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is ap- prox. 40 km/h (25MPH)	<p><b>NOTE:</b> The maximum voltage varies de- pending on the specification (destination unit).</p>  <p style="text-align: right; font-size: small;">JSNIA0012GB</p>
19 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
20	—	Shield	—	—	—	—
21 (L)	—	AV communication signal (H)	—	Input/ Output	—	—
22 (P)	—	AV communication signal (L)	—	Input/ Output	—	—
23	—	Shield	—	—	—	—
25	—	Shield	—	—	—	—

# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

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

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# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

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

\* : Without hands-free phone system



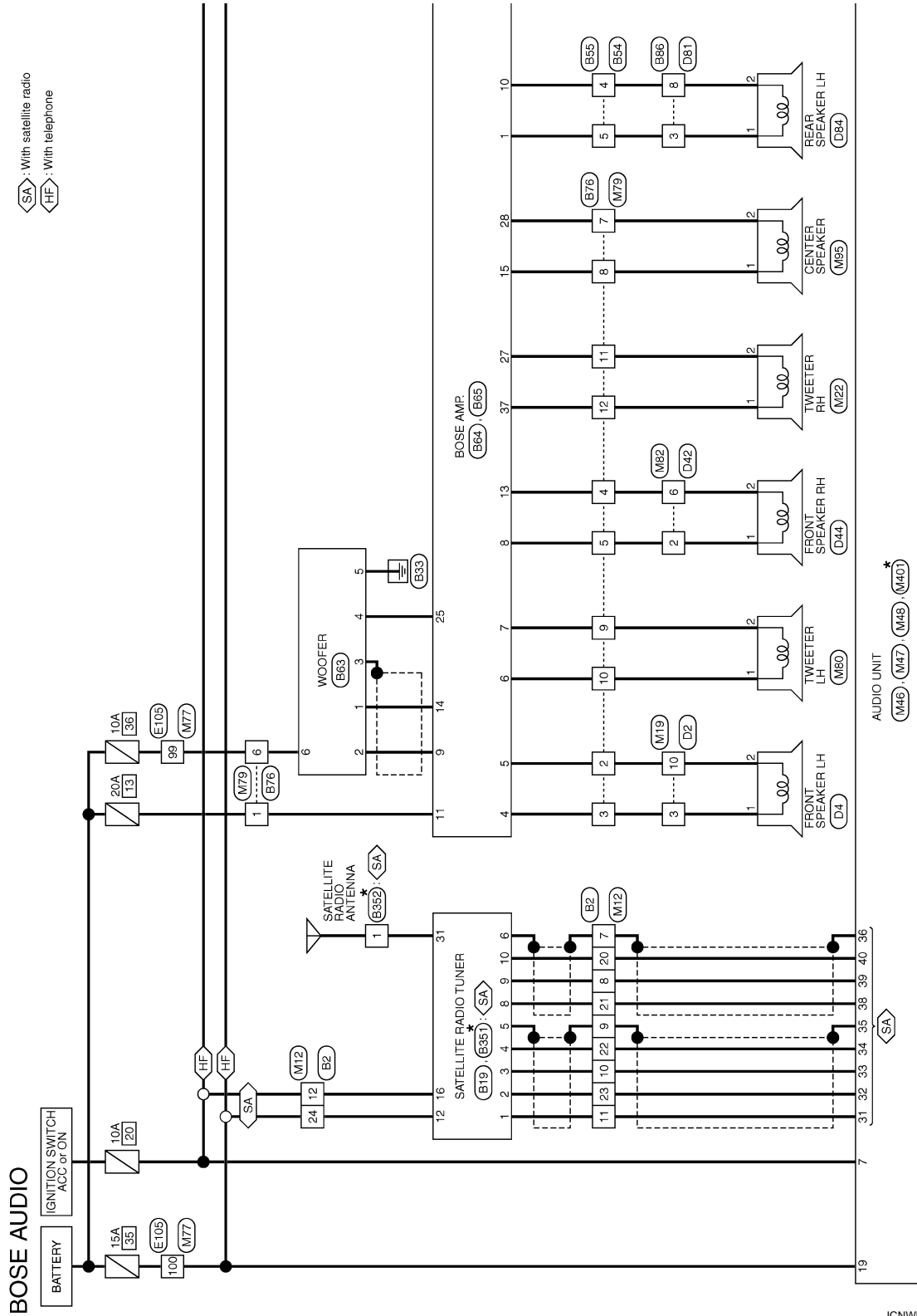
# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## Wiring Diagram - BOSE AUDIO -

INFOID:000000005255157



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

2008/07/15

JCNWM1642GI

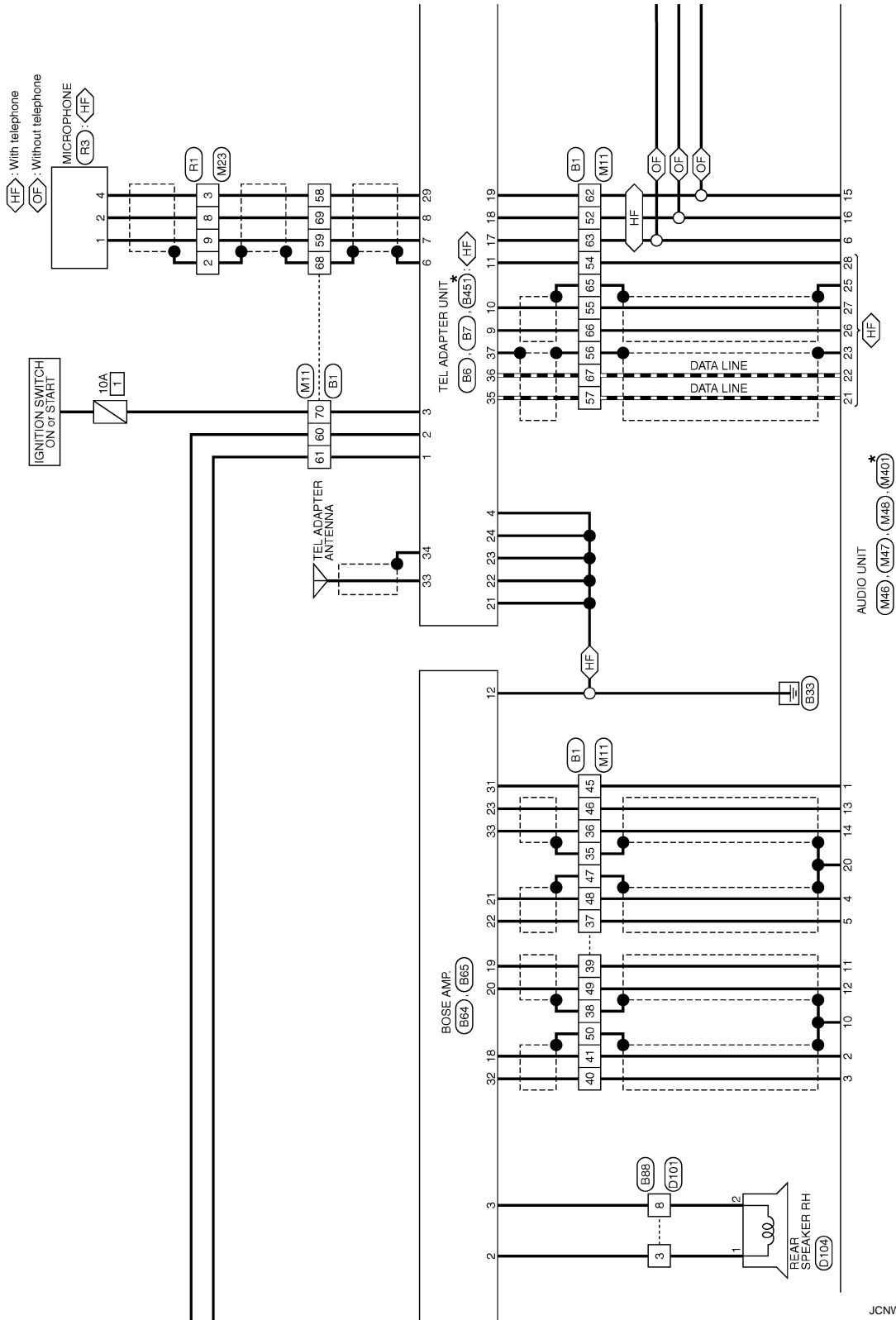
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AV

# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]



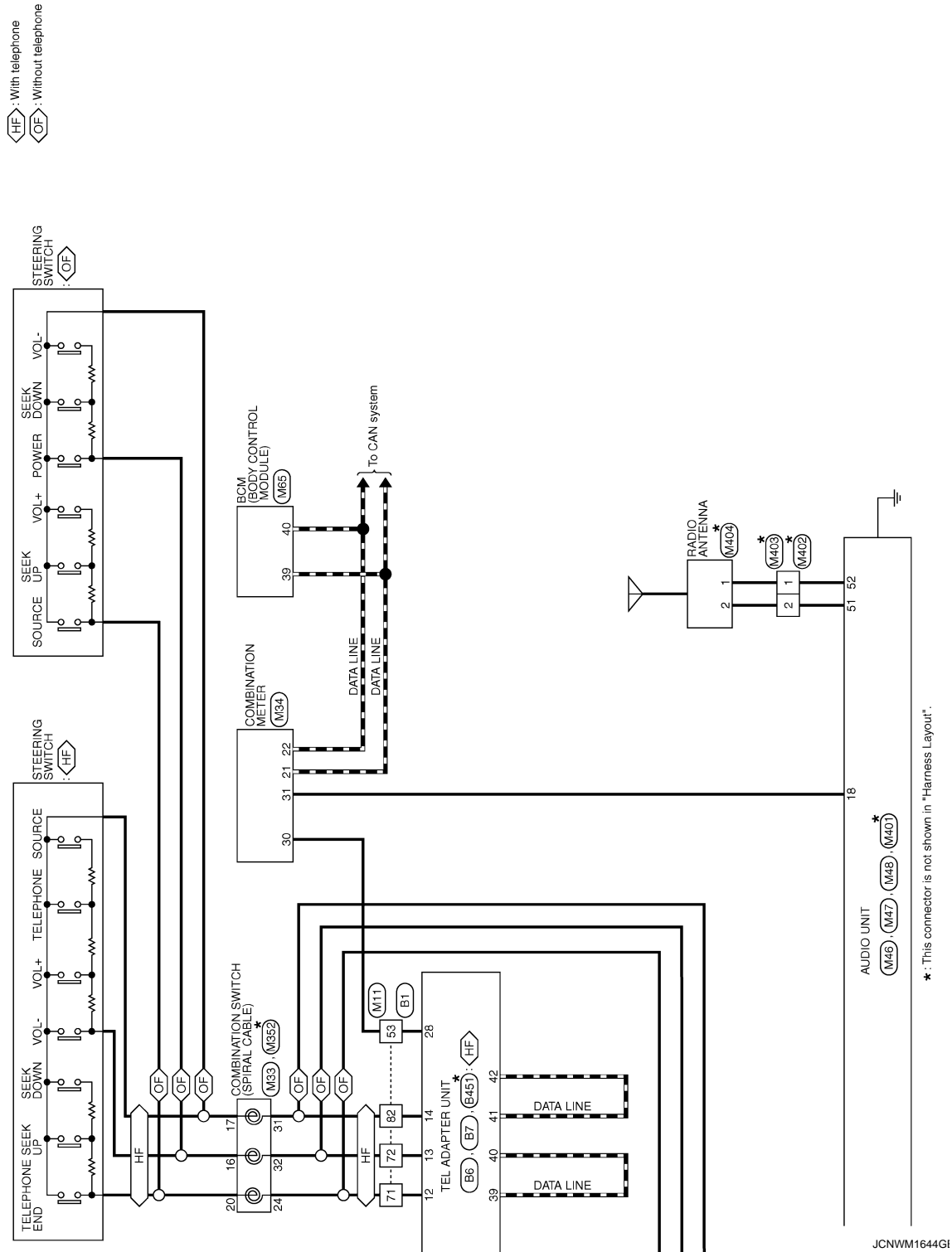
\*: This connector is not shown in "Harness Layout".

JCNWM1643GI

# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]



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# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

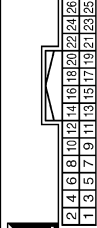
## BOSE AUDIO

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
35	SHIELD	-
36	R	-
37	LG	-
38	SHIELD	-
39	D	-
40	G	-
41	R	-
45	L	-
46	W	-
47	SHIELD	-
48	V	-

Connector No.	B8
Connector Name	TEL ADAPTER UNIT
Connector Type	TH82FW-NH

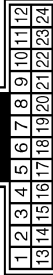


Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	BAT
2	SB	ACC
3	W	IGN
4	B	GND
6	SHIELD	SHIELD
7	B	MICROPHONE SIGNAL (+)
8	R	MICROPHONE SIGNAL (-)
9	BR	SOUND SIGNAL (+)
10	Y	SOUND SIGNAL (-)
11	O	TELEPHONE ON SIGNAL
12	W	STEERING SW SIGNAL A

49	W	-
50	SHIELD	-
52	L	-
53	G	-
54	O	-
55	Y	-
56	SHIELD	-
57	L	-
58	W	-
59	B	-
60	SB	-
61	BR	-
62	GR	-
63	W	-
65	SHIELD	-
66	BR	-
67	P	-
68	SHIELD	-
69	R	-
70	W	-
71	W	-
72	Y	-
82	GR	-

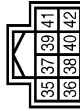
13	Y	STEERING SW SIGNAL B
14	GR	STEERING SW SIGNAL GND
17	W	STEERING SW SIGNAL A
18	L	STEERING SW SIGNAL B
19	GR	STEERING SW SIGNAL GND
21	B	GND
22	B	GND
23	B	GND
24	B	GND
26	G	VEHICLE SPEED SIGNAL (2-PULSE)
29	W	MICROPHONE POWER

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



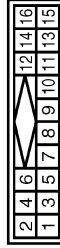
Terminal No.	Color of Wire	Signal Name [Specification]
7	SHIELD	-
8	G	-
9	SHIELD	-
10	G	-
11	R	-
12	SB	-
20	L	-
21	Y	-
22	W	-
23	L	-
24	BR	-

Connector No.	B7
Connector Name	TEL ADAPTER UNIT
Connector Type	TH80FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
35	L	AV COMMUNICATION SIGNAL (H)
36	P	AV COMMUNICATION SIGNAL (L)
37	SHIELD	SHIELD
39	W	-
40	W	-
41	R	-
42	R	-

Connector No.	B19
Connector Name	SATELLITE RADIO TUNER
Connector Type	A18FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL LH (-)
2	L	SOUND SIGNAL LH (+)
3	G	SOUND SIGNAL RH (-)
4	W	SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD
8	Y	REQUEST SIGNAL (SAT TO AUDIO)
9	G	COMMUNICATION SIGNAL (SAT-AUDIO)
10	L	COMMUNICATION SIGNAL (AUDIO-SAT)
12	BR	BAT
16	SB	ACC

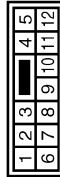
# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

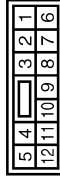
## BOSE AUDIO

Connector No.	B54
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	L	-

Connector No.	B55
Connector Name	WIRE TO WIRE
Connector Type	NS12FY-CS



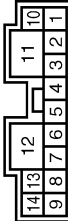
Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	L	-

Connector No.	B53
Connector Name	WOOFER
Connector Type	RS08FGY-PR



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

Connector No.	B84
Connector Name	BOSE AMP.
Connector Type	SGA12FER-SJAZ



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	SOUND SIGNAL REAR SPEAKER LH (+)
2	GR	SOUND SIGNAL REAR SPEAKER RH (+)
3	Y	SOUND SIGNAL REAR SPEAKER LH (-)
4	B	SOUND SIGNAL FRONT SPEAKER LH (+)
5	P	SOUND SIGNAL FRONT SPEAKER LH (-)
6	BR	SOUND SIGNAL TWEETER LH (+)
7	GR	SOUND SIGNAL TWEETER LH (-)
8	G	SOUND SIGNAL FRONT SPEAKER RH (+)
9	Y	SOUND SIGNAL WOOFER (+)
10	R	SOUND SIGNAL REAR SPEAKER LH (-)
11	W	BAT

Terminal No.	12	B	GND
Terminal No.	13	R	SOUND SIGNAL FRONT SPEAKER RH (-)
Terminal No.	14	BR	SOUND SIGNAL WOOFER (-)

Connector No.	B65
Connector Name	BOSE AMP.
Connector Type	SCA19FBR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	V	SOUND SIGNAL CENTER SPEAKER (+)
18	R	SOUND SIGNAL FRONT LH (+)
19	O	SOUND SIGNAL FRONT RH (+)
20	W	SOUND SIGNAL FRONT RH (-)
21	V	SOUND SIGNAL REAR LH (+)
22	LG	SOUND SIGNAL REAR LH (-)
23	W	SOUND SIGNAL REAR RH (+)
25	G	WOOFER AMP. ON SIGNAL
27	W	SOUND SIGNAL TWEETER RH (-)
28	O	SOUND SIGNAL CENTER SPEAKER (-)
31	L	AMP. ON SIGNAL

Terminal No.	32	G	SOUND SIGNAL FRONT LH (-)
Terminal No.	33	R	SOUND SIGNAL REAR RH (-)
Terminal No.	37	O	SOUND SIGNAL TWEETER RH (+)

JCNWM1646GI

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AV

# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## BOSE AUDIO

Connector No.	B76
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	P	-
3	B	-
4	R	-
5	G	-
6	SB	-
7	O	-
8	V	-
9	GR	-
10	BR	-
11	W	-

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
3	L	-
8	R	-

12	0	-
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Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



7	6	5	4	3	2	1
16	15	14	13	12	11	10
9	8					

Connector No.	B451
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-IS+HU



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	-
10	P	-

Connector No.	B552
Connector Name	SATELLITE RADIO ANTENNA
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
33	-	TEL ANTENNA SIGNAL
34	-	SHIELD

Connector No.	B351
Connector Name	SATELLITE RADIO TUNER
Connector Type	FAKRA JACK



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








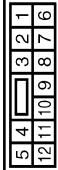



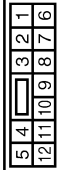




JCNWM1647GI

# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## BOSE AUDIO

Connector No. D4	Connector Name FRONT SPEAKER LH	Connector Type NSJ2FW-CS	 	Terminal No. 1 2	Color of Wire B P	Signal Name [Specification] -
Connector No. D42	Connector Name WIRE TO WIRE	Connector Type NSJ2FW-CS	 	Terminal No. 2 6	Color of Wire G R	Signal Name [Specification] -
Connector No. D44	Connector Name FRONT SPEAKER RH	Connector Type NSJ2FW-CS	 	Terminal No. 1 2	Color of Wire G R	Signal Name [Specification] -
Connector No. D81	Connector Name WIRE TO WIRE	Connector Type NSJ2FW-CS	 	Terminal No. 3 8	Color of Wire L R	Signal Name [Specification] -
Connector No. D84	Connector Name REAR SPEAKER LH (WITH BOSE SYSTEM)	Connector Type NSJ2FBR-CS	 	Terminal No. 1 2	Color of Wire L R	Signal Name [Specification] -
Connector No. D101	Connector Name WIRE TO WIRE	Connector Type NSJ2FW-CS	 	Terminal No. 3 8	Color of Wire GR Y	Signal Name [Specification] -
Connector No. D104	Connector Name REAR SPEAKER RH (WITH BOSE SYSTEM)	Connector Type NSJ2FBR-CS	 	Terminal No. 1 2	Color of Wire GR Y	Signal Name [Specification] -
Connector No. E105	Connector Name WIRE TO WIRE	Connector Type TH8DFW-CS16-TM4	 	Terminal No. 99 100	Color of Wire SS L	Signal Name [Specification] -

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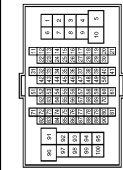
# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## BOSE AUDIO

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH807V-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
35	SHIELD	-
36	P	-
37	LG	-
38	SHIELD	-
39	O	-
40	G	-
41	R	-
45	BR	-
46	L	-
47	SHIELD	-
48	V	-

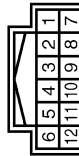
Connector No.	M22
Connector Name	TWEETER RH
Connector Type	TK02FB



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

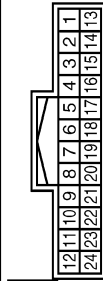
49	W	-
50	SHIELD	-
52	O	-
53	G	-
54	V	-
55	Y	-
56	SHIELD	-
57	L	-
58	W	-
59	B	-
60	SB	-
61	BR	-
62	GR	-
63	W	-
65	SHIELD	-
66	BR	-
67	P	-
68	SHIELD	-
69	R	-
70	LG	-
71	BR	-
72	O	-
82	GR	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



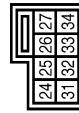
Terminal No.	Color of Wire	Signal Name [Specification]
2	SHIELD	-
3	W	-
8	R	-
9	B	-

Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
7	SHIELD	-
8	B	-
9	SHIELD	-
10	G	-
11	R	-
12	SB	-
20	L	-
21	Y	-
22	W	-
23	L	-
24	BR	-

Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V



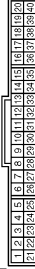
Terminal No.	Color of Wire	Signal Name [Specification]
24	BR	-
31	GR	-
32	O	-

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NSJ6MM-CS



Terminal No.	Color of Wire	Signal Name [Specification]
3	R	-
10	G	-

Connector No.	M94
Connector Name	COMBINATION METER
Connector Type	SAB40FW



Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L
30	Y	VEHICLE SPEED (2-PULSE)
31	L	VEHICLE SPEED (8-PULSE)



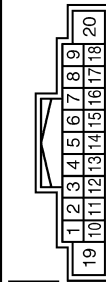
# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

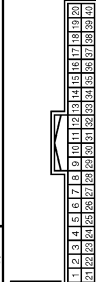
## BOSE AUDIO

Connector No.	M46
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CSZ



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	AMP_ON SIGNAL
2	R	SOUND SIGNAL FRONT LH (+)
3	G	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	LG	SOUND SIGNAL REAR LH (-)
6	W	STEERING SW SIGNAL A[With telephone]
7	SB	STEERING SW SIGNAL A[Without telephone]
10	SHIELD	ACC
11	O	SHIELD
12	W	SOUND SIGNAL FRONT RH (+)
		SOUND SIGNAL FRONT RH (-)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW-NH



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

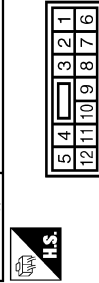
13	L	SOUND SIGNAL REAR RH (+)
14	P	SOUND SIGNAL REAR RH (-)
15	GR	STEERING SW SIGNAL GND
16	O	STEERING SW SIGNAL B
18	L	VEHICLE SPEED SIGNAL (8-PULSE)
19	Y	BAT
20	SHIELD	SHIELD

Connector No.	M47
Connector Name	AUDIO UNIT
Connector Type	TH88FW-NH



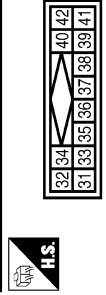
Terminal No.	Color of Wire	Signal Name [Specification]
21	L	AV COMMUNICATION SIGNAL (H)
22	P	AV COMMUNICATION SIGNAL (L)
23	SHIELD	SHIELD
25	SHIELD	SHIELD
26	BR	SOUND SIGNAL (+)
27	Y	SOUND SIGNAL (-)
28	V	TELEPHONE ON SIGNAL

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	G	-
3	R	-
4	W	-
5	O	-
6	SB	-
7	P	-
8	V	-
9	GR	-
10	BR	-
11	Y	-

Connector No.	M48
Connector Name	AUDIO UNIT
Connector Type	A12FW



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

12	L	-
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






AV

# AUDIO UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## BOSE AUDIO

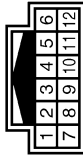
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Connector No.	M80																		
Connector Name	TWEETER LH																		
Connector Type	TK2FBR																		
Terminal No.	Color of Wire	Signal Name [Specification]																	
1	BR	-[With BOSE system]																	
2	P	-[Without BOSE system]																	
<table border="1"> <tr><td>Connector No.</td><td>M82</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS1(MMF)-CS</td></tr> </table>  	Connector No.	M82	Connector Name	WIRE TO WIRE	Connector Type	NS1(MMF)-CS	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>2</td><td>O</td><td>-</td></tr> <tr><td>6</td><td>W</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	2	O	-	6	W	-			
Connector No.	M82																		
Connector Name	WIRE TO WIRE																		
Connector Type	NS1(MMF)-CS																		
Terminal No.	Color of Wire	Signal Name [Specification]																	
2	O	-																	
6	W	-																	
<table border="1"> <tr><td>Connector No.</td><td>M95</td></tr> <tr><td>Connector Name</td><td>CENTER SPEAKER</td></tr> <tr><td>Connector Type</td><td>TK2FBR</td></tr> </table>  	Connector No.	M95	Connector Name	CENTER SPEAKER	Connector Type	TK2FBR	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>V</td><td>-</td></tr> <tr><td>2</td><td>P</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	V	-	2	P	-			
Connector No.	M95																		
Connector Name	CENTER SPEAKER																		
Connector Type	TK2FBR																		
Terminal No.	Color of Wire	Signal Name [Specification]																	
1	V	-																	
2	P	-																	
<table border="1"> <tr><td>Connector No.</td><td>M352</td></tr> <tr><td>Connector Name</td><td>COMBINATION SWITCH (SPIRAL CABLE)</td></tr> <tr><td>Connector Type</td><td>TK08FGY</td></tr> </table>  	Connector No.	M352	Connector Name	COMBINATION SWITCH (SPIRAL CABLE)	Connector Type	TK08FGY	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>16</td><td>-</td><td>-</td></tr> <tr><td>17</td><td>-</td><td>-</td></tr> <tr><td>20</td><td>-</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	16	-	-	17	-	-	20	-	-
Connector No.	M352																		
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)																		
Connector Type	TK08FGY																		
Terminal No.	Color of Wire	Signal Name [Specification]																	
16	-	-																	
17	-	-																	
20	-	-																	
<table border="1"> <tr><td>Connector No.</td><td>M401</td></tr> <tr><td>Connector Name</td><td>AUDIO UNIT</td></tr> <tr><td>Connector Type</td><td>GT13SH-2/1S-HU</td></tr> </table>  	Connector No.	M401	Connector Name	AUDIO UNIT	Connector Type	GT13SH-2/1S-HU	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>51</td><td>-</td><td>ANTENNA SIGNAL</td></tr> <tr><td>52</td><td>-</td><td>ANTENNA AMP. ON SIGNAL</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	51	-	ANTENNA SIGNAL	52	-	ANTENNA AMP. ON SIGNAL			
Connector No.	M401																		
Connector Name	AUDIO UNIT																		
Connector Type	GT13SH-2/1S-HU																		
Terminal No.	Color of Wire	Signal Name [Specification]																	
51	-	ANTENNA SIGNAL																	
52	-	ANTENNA AMP. ON SIGNAL																	
<table border="1"> <tr><td>Connector No.</td><td>M402</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>GT13SC-1/1S-HU</td></tr> </table>  	Connector No.	M402	Connector Name	WIRE TO WIRE	Connector Type	GT13SC-1/1S-HU	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>-</td><td>-</td></tr> <tr><td>2</td><td>-</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	-	-	2	-	-			
Connector No.	M402																		
Connector Name	WIRE TO WIRE																		
Connector Type	GT13SC-1/1S-HU																		
Terminal No.	Color of Wire	Signal Name [Specification]																	
1	-	-																	
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<table border="1"> <tr><td>Connector No.</td><td>M403</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>GT13SCN-1/1PP-HU</td></tr> </table>  	Connector No.	M403	Connector Name	WIRE TO WIRE	Connector Type	GT13SCN-1/1PP-HU	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>-</td><td>-</td></tr> <tr><td>2</td><td>-</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	-	-	2	-	-			
Connector No.	M403																		
Connector Name	WIRE TO WIRE																		
Connector Type	GT13SCN-1/1PP-HU																		
Terminal No.	Color of Wire	Signal Name [Specification]																	
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<table border="1"> <tr><td>Connector No.</td><td>M404</td></tr> <tr><td>Connector Name</td><td>RADIO ANTENNA</td></tr> <tr><td>Connector Type</td><td>GT13SN-1/1PP-HU</td></tr> </table>  	Connector No.	M404	Connector Name	RADIO ANTENNA	Connector Type	GT13SN-1/1PP-HU	<table border="1"> <tr><td>Terminal No.</td><td>Color of Wire</td><td>Signal Name [Specification]</td></tr> <tr><td>1</td><td>-</td><td>-</td></tr> <tr><td>2</td><td>-</td><td>-</td></tr> </table>	Terminal No.	Color of Wire	Signal Name [Specification]	1	-	-	2	-	-			
Connector No.	M404																		
Connector Name	RADIO ANTENNA																		
Connector Type	GT13SN-1/1PP-HU																		
Terminal No.	Color of Wire	Signal Name [Specification]																	
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2	-	-																	

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**BOSE AUDIO**

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	SHIELD	-
3	W	-
8	R	-
9	B	-

Connector No.	R3
Connector Name	MICROPHONE
Connector Type	TK03PW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	MICROPHONE SIGNAL (+)
2	R	MICROPHONE SIGNAL (-)
4	W	MICROPHONE POWER

# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

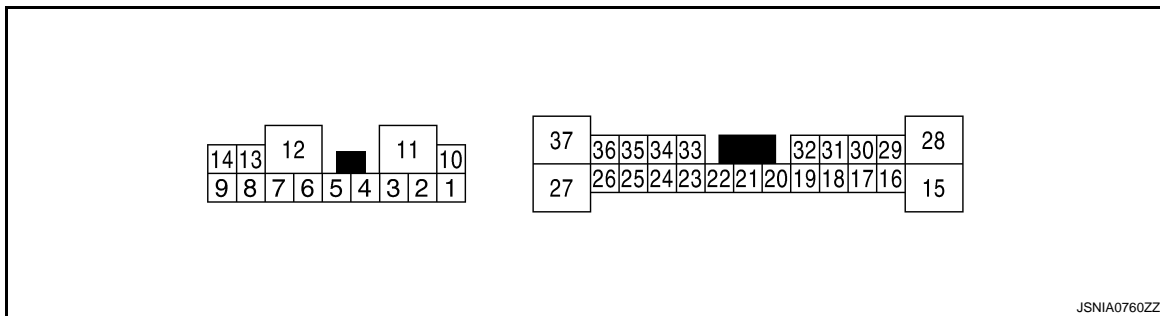
[BOSE AUDIO]

## BOSE AMP.

Reference Value

INFOID:000000005255158

### TERMINAL LAYOUT



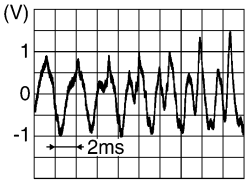
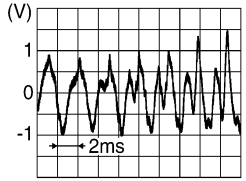
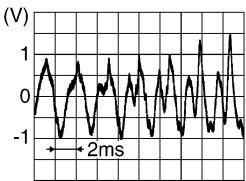
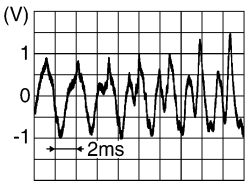
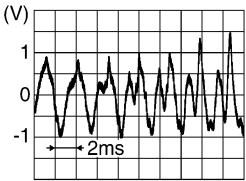
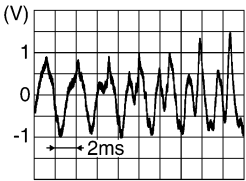
### PHYSICAL VALUES

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

# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
8 (G)	13 (R)	Sound signal front speaker RH	Output	Ignition switch ON	Sound signal output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
9 (Y)	14 (BR)	Sound signal woofer	Output	Ignition switch ON	Sound signal output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
11 (W)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
12 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
15 (V)	28 (O)	Sound signal center speak- er	Output	Ignition switch ON	Sound signal output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
18 (R)	32 (G)	Sound signal front LH	Input	Ignition switch ON	Sound signal output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
19 (O)	20 (W)	Sound signal front RH	Input	Ignition switch ON	Sound signal output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
21 (V)	22 (LG)	Sound signal rear LH	Input	Ignition switch ON	Sound signal output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>

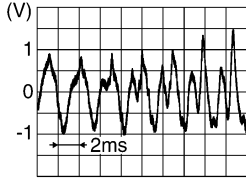
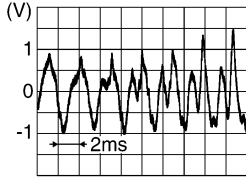
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# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
23 (W)	33 (R)	Sound signal rear RH	Input	Ignition switch ON	Sound signal output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
25 (G)	Ground	Woofer Amp. ON signal	Output	Ignition switch ACC	—	12.0 V
31 (L)	Ground	BOSE amp. ON signal	Input	Ignition switch ACC	—	12.0 V
37 (O)	27 (W)	Sound signal tweeter RH	Output	Ignition switch ON	Sound signal output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>

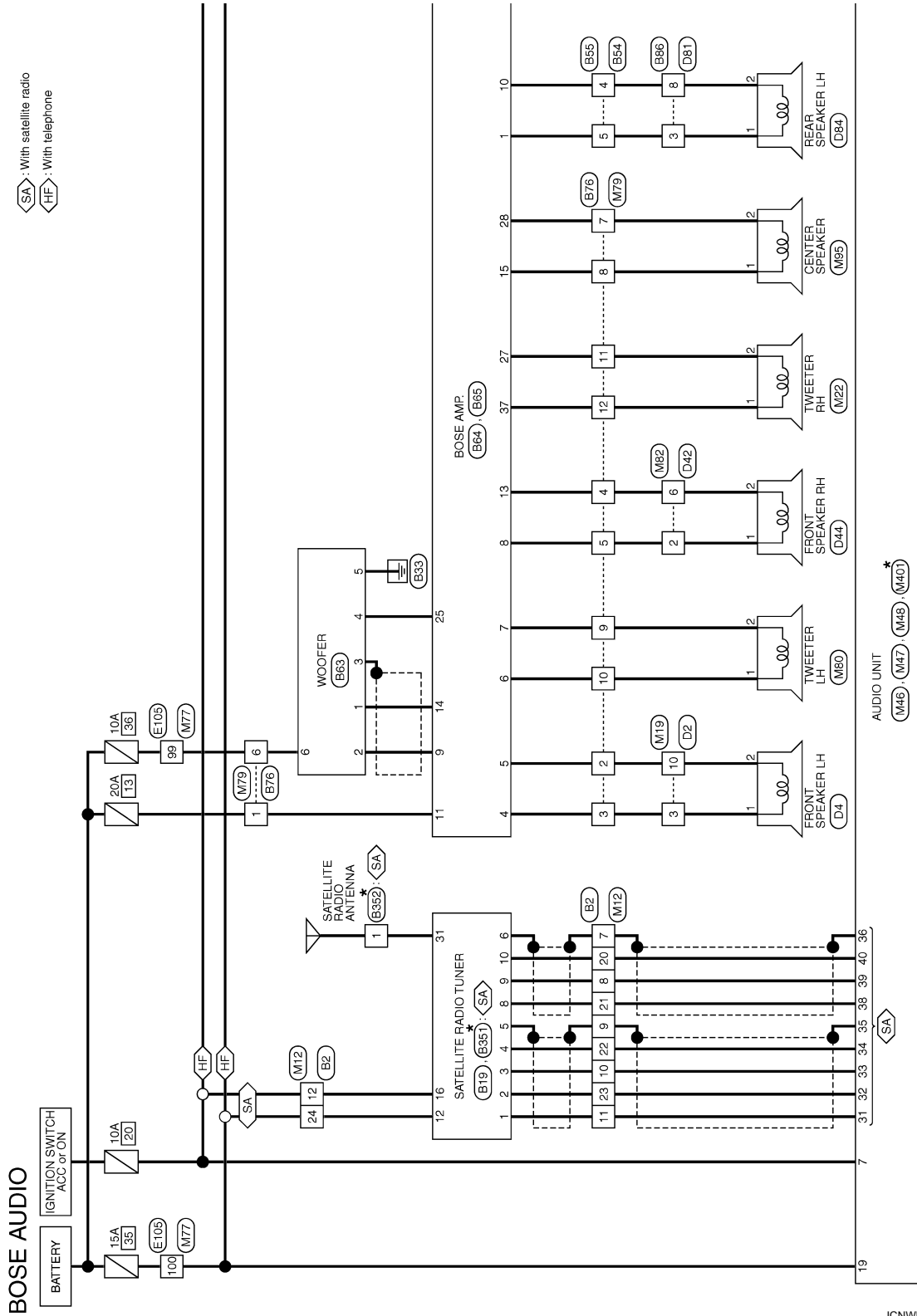
# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## Wiring Diagram - BOSE AUDIO -

INFOID:000000005255159



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

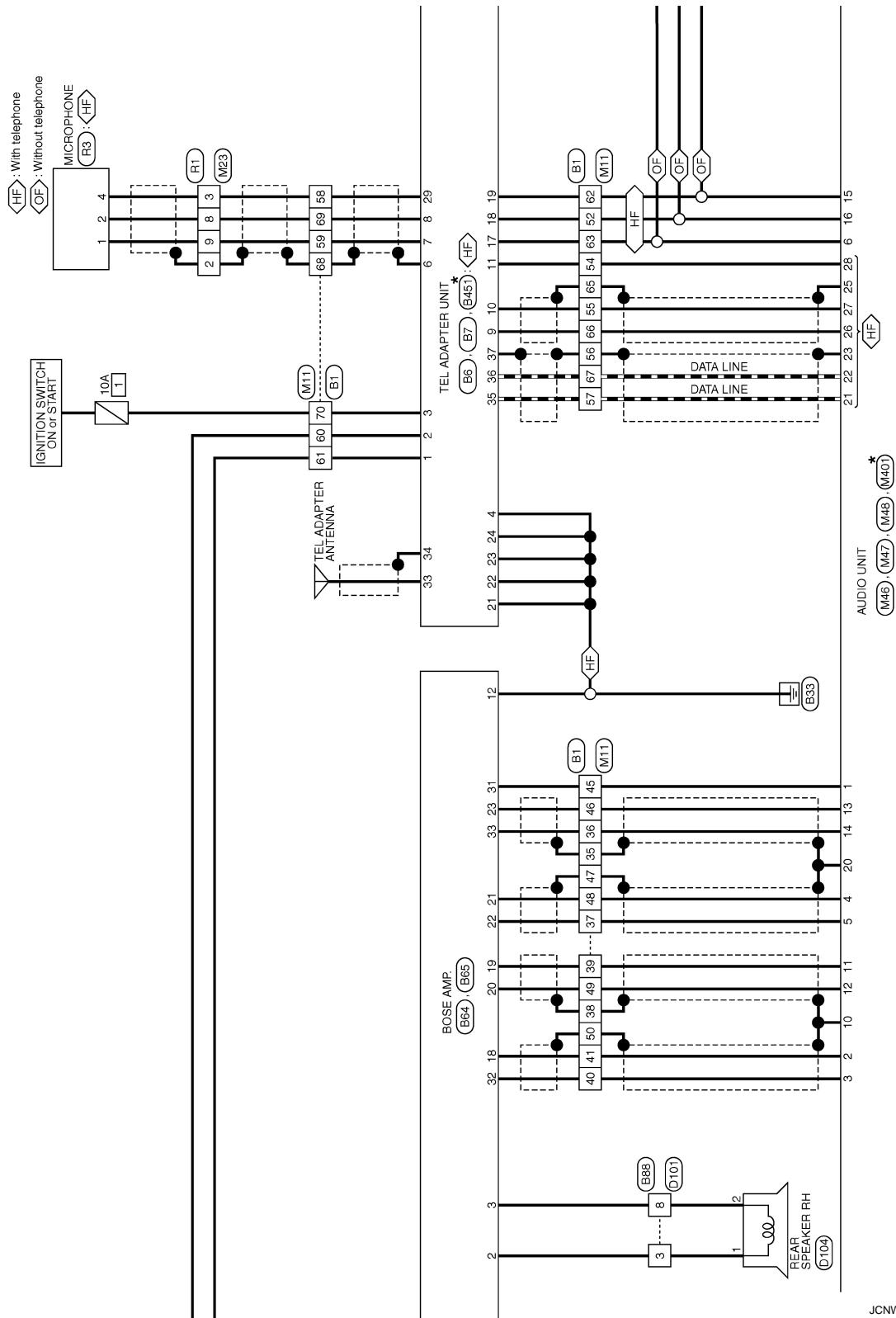
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# BOSE AMP.



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

JCNWM1643GI





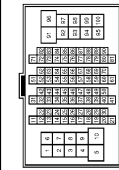
# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

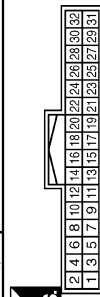
## BOSE AUDIO

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
35	SHIELD	-
36	R	-
37	LG	-
38	SHIELD	-
39	D	-
40	G	-
41	R	-
45	L	-
46	W	-
47	SHIELD	-
48	V	-

Connector No.	B8
Connector Name	TEL ADAPTER UNIT
Connector Type	TH82FW-NH

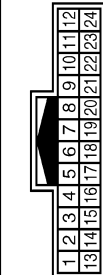


Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	BAT
2	SB	ACC
3	W	IGN
4	B	GND
6	SHIELD	SHIELD
7	B	MICROPHONE SIGNAL (+)
8	R	MICROPHONE SIGNAL (-)
9	BR	SOUND SIGNAL (+)
10	Y	SOUND SIGNAL (-)
11	O	TELEPHONE ON SIGNAL
12	W	STEERING SW SIGNAL A

49	W	-
50	SHIELD	-
52	L	-
53	G	-
54	O	-
55	Y	-
56	SHIELD	-
57	L	-
58	W	-
59	B	-
60	SB	-
61	BR	-
62	GR	-
63	W	-
65	SHIELD	-
66	BR	-
67	P	-
68	SHIELD	-
69	R	-
70	W	-
71	W	-
72	Y	-
82	GR	-

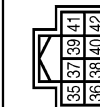
13	Y	STEERING SW SIGNAL B
14	GR	STEERING SW SIGNAL GND
17	W	STEERING SW SIGNAL A
18	L	STEERING SW SIGNAL B
19	GR	STEERING SW SIGNAL GND
21	B	GND
22	B	GND
23	B	GND
24	B	GND
26	G	VEHICLE SPEED SIGNAL (2-PULSE)
29	W	MICROPHONE POWER

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
7	SHIELD	-
8	G	-
9	SHIELD	-
10	G	-
11	R	-
12	SB	-
20	L	-
21	Y	-
22	W	-
23	L	-
24	BR	-

Connector No.	B7
Connector Name	TEL ADAPTER UNIT
Connector Type	TH80FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
35	L	AV COMMUNICATION SIGNAL (H)
36	P	AV COMMUNICATION SIGNAL (L)
37	SHIELD	SHIELD
39	W	-
40	W	-
41	R	-
42	R	-

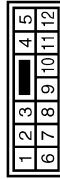
Connector No.	B19
Connector Name	SATELLITE RADIO TUNER
Connector Type	A18FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL LH (-)
2	L	SOUND SIGNAL LH (+)
3	G	SOUND SIGNAL RH (-)
4	W	SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD
8	Y	REQUEST SIGNAL (SAT TO AUDIO)
9	G	COMMUNICATION SIGNAL (SAT-AUDIO)
10	L	COMMUNICATION SIGNAL (AUDIO-SAT)
12	BR	BAT
16	SB	ACC

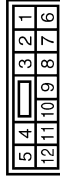
BOSE AUDIO

Connector No.	B64
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	L	-

Connector No.	B65
Connector Name	WIRE TO WIRE
Connector Type	NS12FY-CS



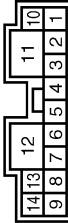
Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	L	-

Connector No.	B63
Connector Name	WOOFER
Connector Type	RS08FGY-PR



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

Connector No.	B64
Connector Name	BOSE AMP.
Connector Type	SGA12FER-SJAZ



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	SOUND SIGNAL REAR SPEAKER LH (+)
2	GR	SOUND SIGNAL REAR SPEAKER RH (+)
3	Y	SOUND SIGNAL REAR SPEAKER LH (-)
4	B	SOUND SIGNAL FRONT SPEAKER LH (+)
5	P	SOUND SIGNAL FRONT SPEAKER LH (-)
6	BR	SOUND SIGNAL TWEETER LH (+)
7	GR	SOUND SIGNAL TWEETER LH (-)
8	G	SOUND SIGNAL FRONT SPEAKER RH (+)
9	Y	SOUND SIGNAL WOOFER (+)
10	R	SOUND SIGNAL REAR SPEAKER LH (-)
11	W	BAT

Terminal No.	12	B	GND
Terminal No.	13	R	SOUND SIGNAL FRONT SPEAKER RH (-)
Terminal No.	14	BR	SOUND SIGNAL WOOFER (-)

Connector No.	B65
Connector Name	BOSE AMP.
Connector Type	SCA19FBR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	V	SOUND SIGNAL CENTER SPEAKER (+)
18	R	SOUND SIGNAL FRONT LH (+)
19	O	SOUND SIGNAL FRONT RH (+)
20	W	SOUND SIGNAL FRONT RH (-)
21	V	SOUND SIGNAL REAR LH (+)
22	LG	SOUND SIGNAL REAR LH (-)
23	W	SOUND SIGNAL REAR RH (+)
25	G	WOOFER AMP. ON SIGNAL
27	W	SOUND SIGNAL TWEETER RH (-)
28	O	SOUND SIGNAL CENTER SPEAKER (-)
31	L	AMP. ON SIGNAL

Terminal No.	32	G	SOUND SIGNAL FRONT LH (-)
Terminal No.	33	R	SOUND SIGNAL REAR RH (-)
Terminal No.	37	O	SOUND SIGNAL TWEETER RH (+)

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# BOSE AMP.

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## BOSE AUDIO

Connector No.	B76
Connector Name	WIRE TO WIRE
Connector Type	NS12MFC-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	P	-
3	B	-
4	R	-
5	G	-
6	SB	-
7	O	-
8	V	-
9	GR	-
10	BR	-
11	W	-

Connector No.	B351
Connector Name	SATELLITE RADIO TUNER
Connector Type	FAKRA JACK



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Connector No.	B36
Connector Name	WIRE TO WIRE
Connector Type	NS12MFC-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
3	L	-
8	R	-

Connector No.	B451
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-IS+HU



Terminal No.	1	Color of Wire	-	Signal Name [Specification]	-
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Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS12MFC-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
3	GR	-
8	Y	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS









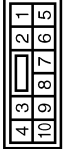
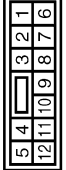
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16	15	14	13	12	11	10
9	8					







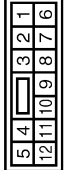
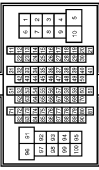
Terminal No.	3	Color of Wire	B	Signal Name [Specification]	-
	10	Color of Wire	P	Signal Name [Specification]	-

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

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BOSE AUDIO

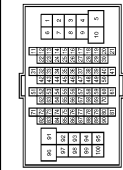
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Connector Name	FRONT SPEAKER LH	Connector Name	FRONT SPEAKER RH	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS	Connector Type	NS12FW-CS	Connector Type	NS12FW-CS	Connector Type	NS12FW-CS
							
							
Terminal No.	1	Terminal No.	1	Terminal No.	2	Terminal No.	3
Color of Wire	B	Color of Wire	G	Color of Wire	G	Color of Wire	L
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-
Terminal No.	2	Terminal No.	2	Terminal No.	6	Terminal No.	8
Color of Wire	P	Color of Wire	R	Color of Wire	R	Color of Wire	R
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-

Connector No.	D84	Connector No.	D104	Connector No.	D101	Connector No.	E105
Connector Name	REAR SPEAKER LH (WITH BOSE SYSTEM)	Connector Name	REAR SPEAKER RH (WITH BOSE SYSTEM)	Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	NS12FBR-CS	Connector Type	NS12FBR-CS	Connector Type	NS12FW-CS	Connector Type	TH8DFW-CS16-TM4
							
							
Terminal No.	1	Terminal No.	1	Terminal No.	3	Terminal No.	99
Color of Wire	L	Color of Wire	GR	Color of Wire	GR	Color of Wire	SS
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-
Terminal No.	2	Terminal No.	2	Terminal No.	8	Terminal No.	100
Color of Wire	R	Color of Wire	Y	Color of Wire	Y	Color of Wire	L
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-

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BOSE AUDIO

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH807V-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
35	SHIELD	-
36	P	-
37	LG	-
38	SHIELD	-
39	O	-
40	G	-
41	R	-
43	BR	-
46	L	-
47	SHIELD	-
48	V	-

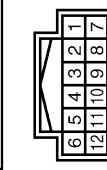
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Connector Name	TWEETER RH
Connector Type	TK02FB



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

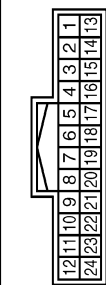
49	W	-
50	SHIELD	-
52	O	-
53	G	-
54	V	-
55	Y	-
56	SHIELD	-
57	L	-
58	W	-
59	B	-
60	SB	-
61	BR	-
62	GR	-
63	W	-
65	SHIELD	-
66	BR	-
67	P	-
68	SHIELD	-
69	R	-
70	LG	-
71	BR	-
72	O	-
82	GR	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



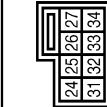
Terminal No.	Color of Wire	Signal Name [Specification]
2	SHIELD	-
3	W	-
8	R	-
9	B	-

Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
7	SHIELD	-
8	B	-
9	SHIELD	-
10	G	-
11	R	-
12	SB	-
20	L	-
21	Y	-
22	W	-
23	L	-
24	BR	-

Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V



Terminal No.	Color of Wire	Signal Name [Specification]
24	BR	-
31	GR	-
32	O	-

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16MR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
3	R	-
10	G	-

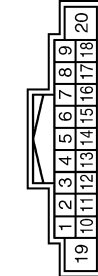
Connector No.	M94
Connector Name	COMBINATION METER
Connector Type	SAB0FW



Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L
30	Y	VEHICLE SPEED (2-PULSE)
31	L	VEHICLE SPEED (8-PULSE)

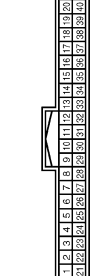
BOSE AUDIO

Connector No.	M46
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CSZ



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	AMP_ON SIGNAL
2	R	SOUND SIGNAL FRONT LH (+)
3	G	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	LG	SOUND SIGNAL REAR LH (-)
6	W	STEERING SW SIGNAL A[With telephone]
7	SB	STEERING SW SIGNAL A[Without telephone]
10	SHIELD	ACC
11	O	SHIELD
12	W	SOUND SIGNAL FRONT RH (+)
		SOUND SIGNAL FRONT RH (-)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW-NH



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

13	L	SOUND SIGNAL REAR RH (+)
14	P	SOUND SIGNAL REAR RH (-)
15	GR	STEERING SW SIGNAL GND
16	O	STEERING SW SIGNAL B
18	L	VEHICLE SPEED SIGNAL (8-PULSE)
19	Y	BAT
20	SHIELD	SHIELD

Connector No.	M47
Connector Name	AUDIO UNIT
Connector Type	TH88FW-NH



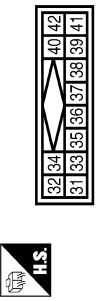
Terminal No.	Color of Wire	Signal Name [Specification]
21	L	AV COMMUNICATION SIGNAL (H)
22	P	AV COMMUNICATION SIGNAL (L)
23	SHIELD	SHIELD
25	SHIELD	SHIELD
26	BR	SOUND SIGNAL (+)
27	Y	SOUND SIGNAL (-)
28	V	TELEPHONE ON SIGNAL

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	G	-
3	R	-
4	W	-
5	O	-
6	SB	-
7	P	-
8	V	-
9	GR	-
10	BR	-
11	Y	-

Connector No.	M48
Connector Name	AUDIO UNIT
Connector Type	A12FW



















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

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BOSE AUDIO

Connector No. M80	Connector Name TWEETER LH	Connector Type TK2FBR	 	Terminal No. 1 2	Color of Wire BR P	Signal Name [Specification] - [With BOSE system] - [Without BOSE system]
Connector No. M82	Connector Name WIRE TO WIRE	Connector Type NS1 (AMP)-CS	 	Terminal No. 2 6	Color of Wire O W	Signal Name [Specification]
Connector No. M95	Connector Name CENTER SPEAKER	Connector Type TK2FBR	 	Terminal No. 1 2	Color of Wire V P	Signal Name [Specification]
Connector No. M352	Connector Name COMBINATION SWITCH (SPIRAL CABLE)	Connector Type TK08FGY	 	Terminal No. 16 17 20	Color of Wire - - -	Signal Name [Specification]
Connector No. M401	Connector Name AUDIO UNIT	Connector Type GT13SH-2/1S-HU	 	Terminal No. 51 52	Color of Wire - -	Signal Name [Specification] ANTENNA SIGNAL ANTENNA AMP. ON SIGNAL
Connector No. M402	Connector Name WIRE TO WIRE	Connector Type GT13SC-1/1S-HU	 	Terminal No. 1 2	Color of Wire - -	Signal Name [Specification]
Connector No. M403	Connector Name WIRE TO WIRE	Connector Type GT13SCN-1/1PP-HU	 	Terminal No. 1 2	Color of Wire - -	Signal Name [Specification]
Connector No. M404	Connector Name RADIO ANTENNA	Connector Type GT13SN-1/1PP-HU	 	Terminal No. 1 2	Color of Wire - -	Signal Name [Specification]

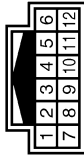
JCNWM1651GI



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BOSE AUDIO

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	SHIELD	-
3	W	-
8	R	-
9	B	-

Connector No.	R3
Connector Name	MICROPHONE
Connector Type	TK04FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	MICROPHONE SIGNAL (+)
2	R	MICROPHONE SIGNAL (-)
4	W	MICROPHONE POWER

# WOOFER

< ECU DIAGNOSIS INFORMATION >

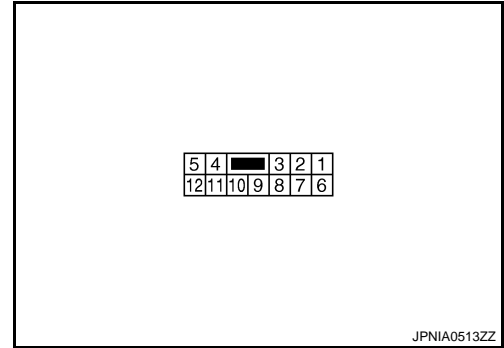
[BOSE AUDIO]

## WOOFER

Reference Value

INFOID:000000005255160

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
2 (Y)	1 (BR)	Sound signal woofer	Output	Ignition switch ON	Sound signal output	<p>SKIB3609E</p>
3	—	Shield	—	—	—	—
4 (G)	Ground	Woofer amp. ON signal	Input	Ignition switch ON	—	12.0 V
5 (B)	Ground	GND	—	Ignition switch ON	—	0 V
6 (SB)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage

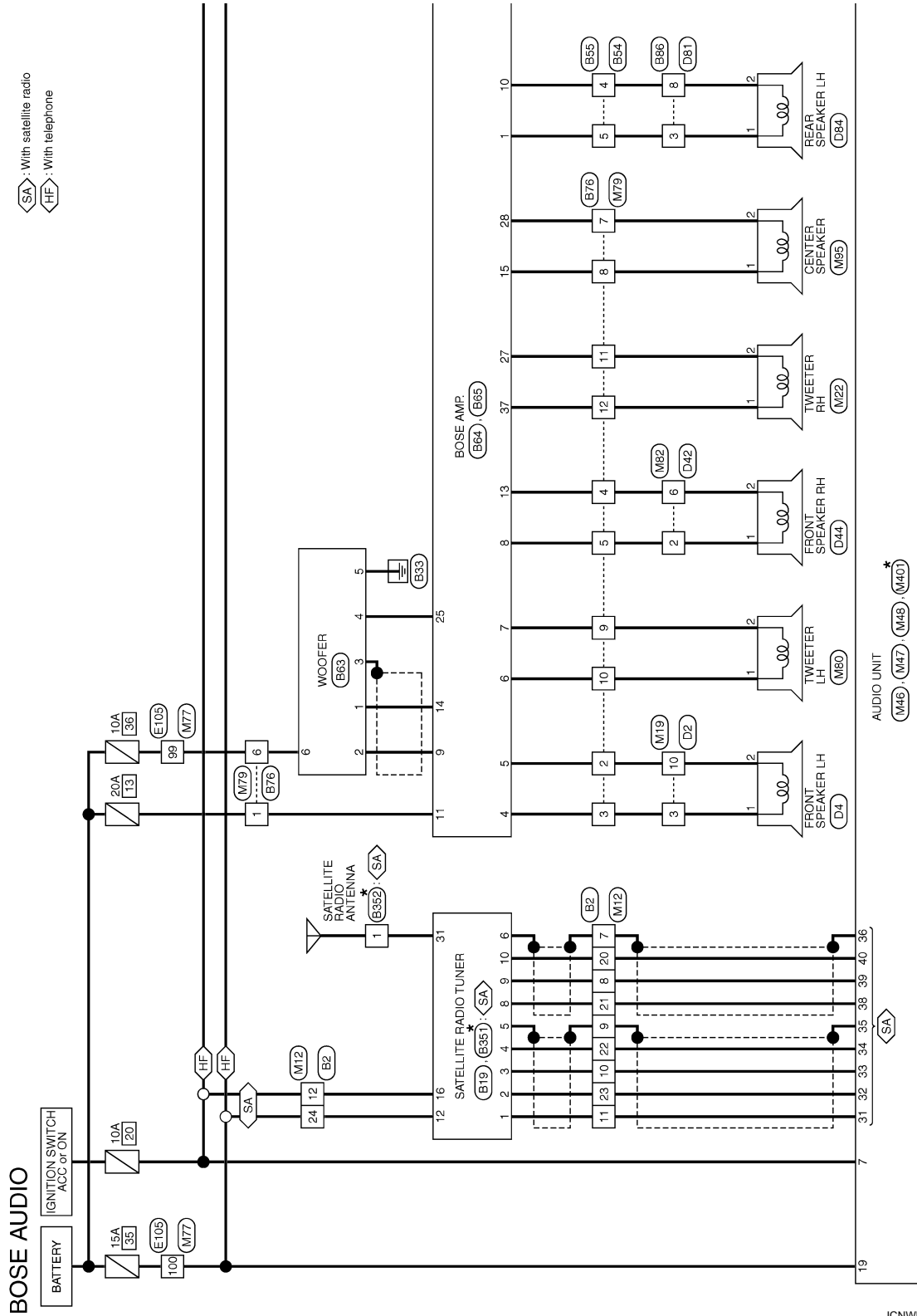
# WOOFER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## Wiring Diagram - BOSE AUDIO -

INFOID:000000005255161



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

2008/07/15

JCNWM1642GI

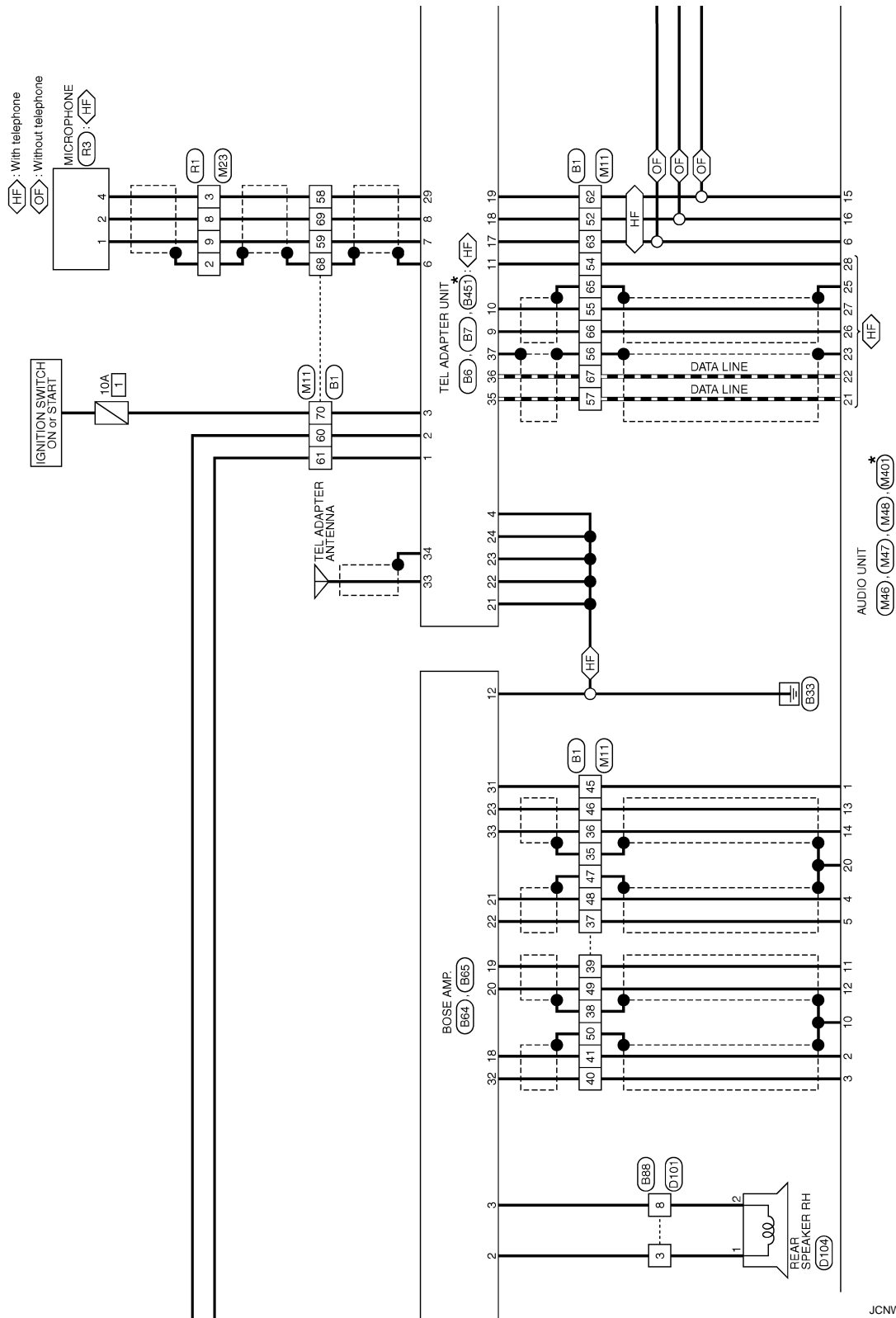
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# WOOFER

< ECU DIAGNOSIS INFORMATION >

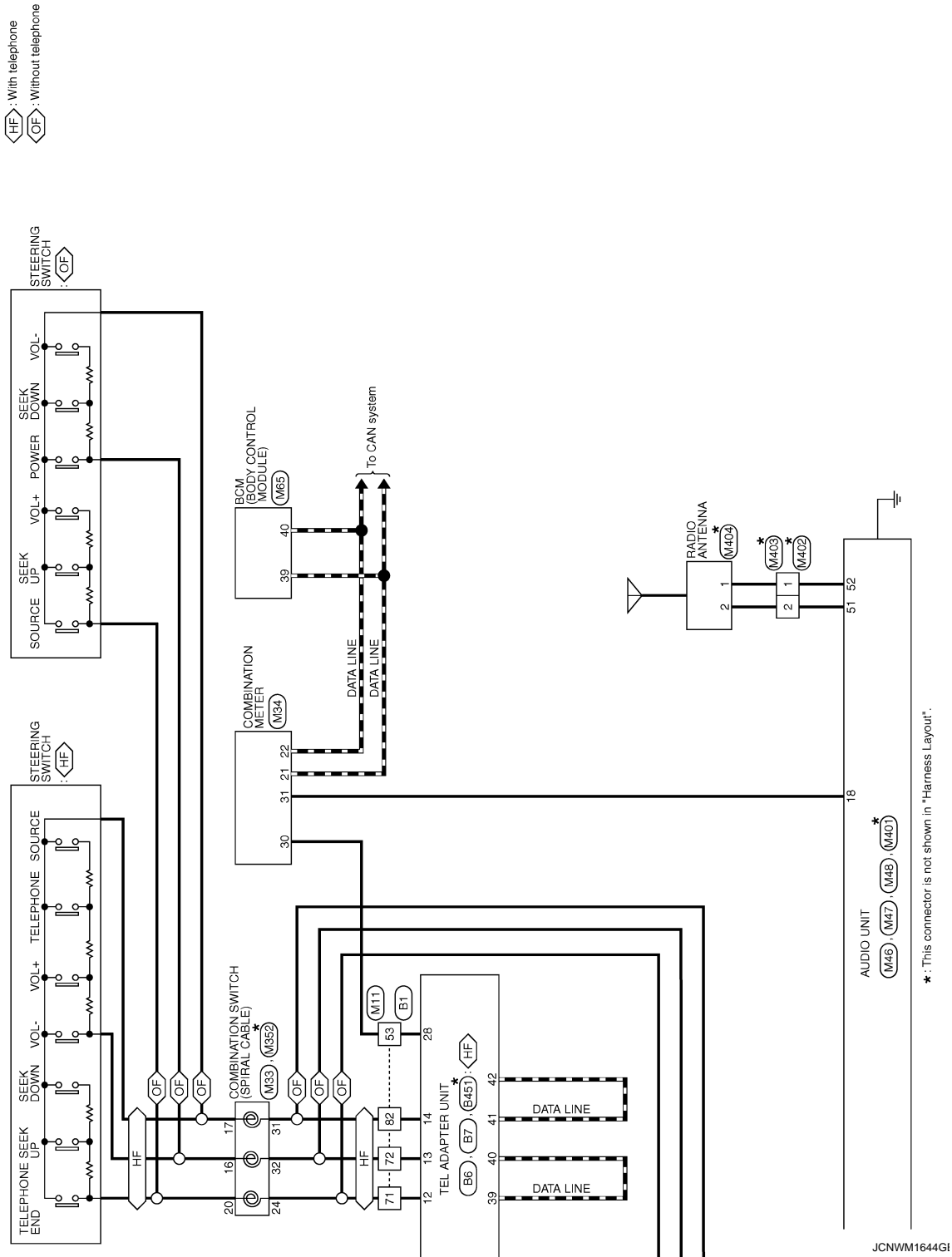
[BOSE AUDIO]



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

JCNWM1643GI

# WOOFER

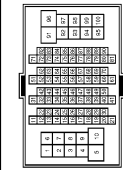


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BOSE AUDIO

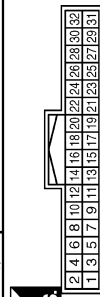
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



49	W	-
50	SHIELD	-
52	L	-
53	G	-
54	O	-
55	Y	-
56	SHIELD	-
57	L	-
58	W	-
59	B	-
60	SB	-
61	BR	-
62	GR	-
63	W	-
65	SHIELD	-
66	BR	-
67	P	-
68	SHIELD	-
69	R	-
70	W	-
71	W	-
72	Y	-
82	GR	-

Terminal No.	Color of Wire	Signal Name [Specification]
35	SHIELD	-
36	R	-
37	LG	-
38	SHIELD	-
39	O	-
40	G	-
41	R	-
45	L	-
46	W	-
47	SHIELD	-
48	V	-

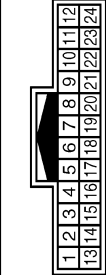
Connector No.	B8
Connector Name	TEL ADAPTER UNIT
Connector Type	TH82FW-NH



13	Y	STEERING SW SIGNAL B
14	GR	STEERING SW SIGNAL GND
17	W	STEERING SW SIGNAL A
18	L	STEERING SW SIGNAL B
19	GR	STEERING SW SIGNAL GND
21	B	GND
22	B	GND
23	B	GND
24	B	GND
26	G	VEHICLE SPEED SIGNAL (2-PULSE)
29	W	MICROPHONE POWER

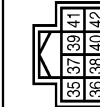
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	BAT
2	SB	ACC
3	W	IGN
4	B	GND
6	SHIELD	SHIELD
7	B	MICROPHONE SIGNAL (+)
8	R	MICROPHONE SIGNAL (-)
9	BR	SOUND SIGNAL (+)
10	Y	SOUND SIGNAL (-)
11	O	TELEPHONE ON SIGNAL
12	W	STEERING SW SIGNAL A

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
7	SHIELD	-
8	G	-
9	SHIELD	-
10	G	-
11	R	-
12	SB	-
20	L	-
21	Y	-
22	W	-
23	L	-
24	BR	-

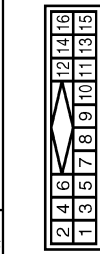
Connector No.	B7
Connector Name	TEL ADAPTER UNIT
Connector Type	TH80FW-NH



13	Y	STEERING SW SIGNAL B
14	GR	STEERING SW SIGNAL GND
17	W	STEERING SW SIGNAL A
18	L	STEERING SW SIGNAL B
19	GR	STEERING SW SIGNAL GND
21	B	GND
22	B	GND
23	B	GND
24	B	GND
26	G	VEHICLE SPEED SIGNAL (2-PULSE)
29	W	MICROPHONE POWER

Terminal No.	Color of Wire	Signal Name [Specification]
35	L	AV COMMUNICATION SIGNAL (H)
36	P	AV COMMUNICATION SIGNAL (L)
37	SHIELD	SHIELD
39	W	-
40	W	-
41	R	-
42	R	-

Connector No.	B19
Connector Name	SATELLITE RADIO TUNER
Connector Type	A18FW

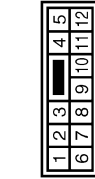


13	Y	STEERING SW SIGNAL B
14	GR	STEERING SW SIGNAL GND
17	W	STEERING SW SIGNAL A
18	L	STEERING SW SIGNAL B
19	GR	STEERING SW SIGNAL GND
21	B	GND
22	B	GND
23	B	GND
24	B	GND
26	G	VEHICLE SPEED SIGNAL (2-PULSE)
29	W	MICROPHONE POWER

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL LH (-)
2	L	SOUND SIGNAL LH (+)
3	G	SOUND SIGNAL RH (-)
4	W	SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD
8	Y	REQUEST SIGNAL (SAT TO AUDIO)
9	G	COMMUNICATION SIGNAL (SAT-AUDIO)
10	L	COMMUNICATION SIGNAL (AUDIO-SAT)
12	BR	BAT
16	SB	ACC

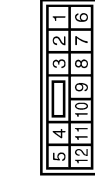
BOSE AUDIO

Connector No.	B64
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	
5	L	

Connector No.	B65
Connector Name	WIRE TO WIRE
Connector Type	NS12FY-CS



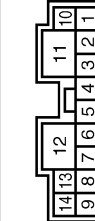
Terminal No.	Color of Wire	Signal Name [Specification]
4	R	
5	L	

Connector No.	B63
Connector Name	WOOFER
Connector Type	RS08FGY-PR



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

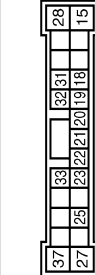
Connector No.	B64
Connector Name	BOSE AMP.
Connector Type	SGA12FER-SJAZ



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	SOUND SIGNAL REAR SPEAKER LH (+)
2	GR	SOUND SIGNAL REAR SPEAKER RH (+)
3	Y	SOUND SIGNAL REAR SPEAKER LH (-)
4	B	SOUND SIGNAL FRONT SPEAKER LH (+)
5	P	SOUND SIGNAL FRONT SPEAKER RH (+)
6	BR	SOUND SIGNAL TWEETER LH (-)
7	GR	SOUND SIGNAL TWEETER LH (+)
8	G	SOUND SIGNAL FRONT SPEAKER RH (+)
9	Y	SOUND SIGNAL WOOFER (+)
10	R	SOUND SIGNAL REAR SPEAKER LH (-)
11	W	BAT

Terminal No.	12	B	GND
Terminal No.	13	R	SOUND SIGNAL FRONT SPEAKER RH (-)
Terminal No.	14	BR	SOUND SIGNAL WOOFER (-)

Connector No.	B65
Connector Name	BOSE AMP.
Connector Type	SCA19FBR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	V	SOUND SIGNAL CENTER SPEAKER (+)
16	R	SOUND SIGNAL FRONT LH (+)
17	O	SOUND SIGNAL FRONT RH (+)
18	W	SOUND SIGNAL FRONT RH (-)
19	V	SOUND SIGNAL REAR LH (+)
20	LG	SOUND SIGNAL REAR RH (+)
21	G	WOOFER AMP. ON SIGNAL
22	W	SOUND SIGNAL TWEETER RH (-)
23	W	SOUND SIGNAL TWEETER RH (+)
24	W	SOUND SIGNAL CENTER SPEAKER (-)
25	L	AMP. ON SIGNAL

Terminal No.	32	G	SOUND SIGNAL FRONT LH (-)
Terminal No.	33	R	SOUND SIGNAL REAR RH (-)
Terminal No.	37	O	SOUND SIGNAL TWEETER RH (+)

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# WOOFER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## BOSE AUDIO

Connector No.	B76
Connector Name	WIRE TO WIRE
Connector Type	NS12MFC-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	P	-
3	B	-
4	R	-
5	G	-
6	SB	-
7	O	-
8	V	-
9	GR	-
10	BR	-
11	W	-

Connector No.	B351
Connector Name	SATELLITE RADIO TUNER
Connector Type	FAKRA JACK



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Connector No.	B36
Connector Name	WIRE TO WIRE
Connector Type	NS12MFC-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
3	L	-
8	R	-

Connector No.	B451
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-IS+HU



Terminal No.	1	Color of Wire	-	Signal Name [Specification]	-
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Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS12MFC-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
3	GR	-
8	Y	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



7	6	5	4	3	2	1
16	15	14	13	12	11	10
9	8					

Terminal No.	3	Color of Wire	B	Signal Name [Specification]	-
	10	Color of Wire	P	Signal Name [Specification]	-




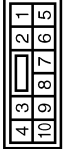



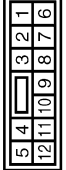
Terminal No.	33	Color of Wire	-	Signal Name [Specification]	TEL ANTENNA SIGNAL
	34	Color of Wire	-	Signal Name [Specification]	SHIELD




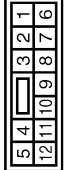



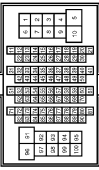
JCNWM1647GI



# WOOFER

## BOSE AUDIO

Connector No.	D4	Connector No.	D42	Connector No.	D44	Connector No.	D81
Connector Name	FRONT SPEAKER LH	Connector Name	WIRE TO WIRE	Connector Name	FRONT SPEAKER RH	Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS	Connector Type	NS12FW-CS	Connector Type	NS12FW-CS	Connector Type	NS12FW-CS
							
Terminal No.	1	Terminal No.	2	Terminal No.	1	Terminal No.	3
Color of Wire	B	Color of Wire	G	Color of Wire	G	Color of Wire	L
Signal Name [Specification]	-	Color of Wire	R	Color of Wire	R	Color of Wire	R
Signal Name [Specification]	-	Terminal No.	6	Terminal No.	2	Terminal No.	8
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-

Connector No.	D84	Connector No.	D101	Connector No.	D104	Connector No.	E105
Connector Name	REAR SPEAKER LH (WITH BOSE SYSTEM)	Connector Name	WIRE TO WIRE	Connector Name	REAR SPEAKER RH (WITH BOSE SYSTEM)	Connector Name	WIRE TO WIRE
Connector Type	NS12FBR-CS	Connector Type	NS12FW-CS	Connector Type	NS12FBR-CS	Connector Type	TH8DFW-CS16-TM4
							
Terminal No.	1	Terminal No.	3	Terminal No.	1	Terminal No.	99
Color of Wire	L	Color of Wire	GR	Color of Wire	GR	Color of Wire	SS
Signal Name [Specification]	-	Color of Wire	Y	Color of Wire	Y	Color of Wire	L
Signal Name [Specification]	-	Terminal No.	8	Terminal No.	2	Terminal No.	100
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-

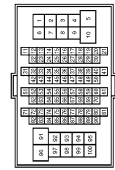
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BOSE AUDIO

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH807V-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
35	SHIELD	-
36	P	-
37	LG	-
38	SHIELD	-
39	O	-
40	G	-
41	R	-
45	BR	-
46	L	-
47	SHIELD	-
48	V	-

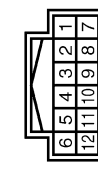
Connector No.	M22
Connector Name	TWEETER RH
Connector Type	TK02FB



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

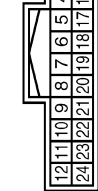
49	W	-
50	SHIELD	-
52	O	-
53	G	-
54	V	-
55	Y	-
56	SHIELD	-
57	L	-
58	W	-
59	B	-
60	SB	-
61	BR	-
62	GR	-
63	W	-
65	SHIELD	-
66	BR	-
67	P	-
68	SHIELD	-
69	R	-
70	LG	-
71	BR	-
72	O	-
82	GR	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



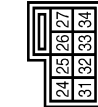
Terminal No.	Color of Wire	Signal Name [Specification]
2	SHIELD	-
3	W	-
8	R	-
9	B	-

Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
7	SHIELD	-
8	B	-
9	SHIELD	-
10	G	-
11	R	-
12	SB	-
20	L	-
21	Y	-
22	W	-
23	L	-
24	BR	-

Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V



Terminal No.	Color of Wire	Signal Name [Specification]
24	BR	-
31	GR	-
32	O	-

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NSJ6MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
3	R	-
10	G	-

Connector No.	M94
Connector Name	COMBINATION METER
Connector Type	SAB0FW



Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L
30	Y	VEHICLE SPEED (2-PULSE)
31	L	VEHICLE SPEED (8-PULSE)

BOSE AUDIO

Connector No.	M48
Connector Name	AUDIO UNIT
Connector Type	A12FW



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

Terminal No.	12
Color of Wire	L

Connector No.	M47
Connector Name	AUDIO UNIT
Connector Type	TH80FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	L	AV COMMUNICATION SIGNAL (H)
22	P	AV COMMUNICATION SIGNAL (L)
23	SHIELD	SHIELD
24	SHIELD	SHIELD
25	SHIELD	SHIELD
26	BR	SOUND SIGNAL (+)
27	Y	SOUND SIGNAL (-)
28	V	TELEPHONE ON SIGNAL

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	G	-
3	R	-
4	W	-
5	O	-
6	SB	-
7	P	-
8	V	-
9	GR	-
10	BR	-
11	Y	-

13	L	SOUND SIGNAL REAR RH (+)
14	P	SOUND SIGNAL REAR RH (-)
15	GR	STEERING SW SIGNAL GND
16	O	STEERING SW SIGNAL B
18	L	VEHICLE SPEED SIGNAL (8-PULSE)
19	Y	BAT
20	SHIELD	SHIELD

Connector No.	M46
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CSZ



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	AMP ON SIGNAL
2	R	SOUND SIGNAL FRONT LH (+)
3	G	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	LG	SOUND SIGNAL REAR LH (-)
8	W	STEERING SW SIGNAL A (with telephone)
6	BR	STEERING SW SIGNAL A (without telephone)
7	SB	ACC
10	SHIELD	SHIELD
11	O	SOUND SIGNAL FRONT RH (+)
12	W	SOUND SIGNAL FRONT RH (-)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



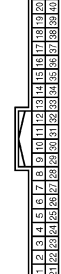
Terminal No.	Color of Wire	Signal Name [Specification]
99	SB	-
100	Y	-

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW-NH



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

Terminal No.	38
Color of Wire	L



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

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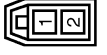




AV

# WOOFER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## BOSE AUDIO

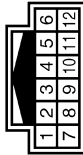
Connector No. M80	Connector Name TWEETER LH	Connector Type TK2FBR	 	Terminal No. 1 2	Color of Wire BR P	Signal Name [Specification] - [With BOSE system] - [Without BOSE system]
Connector No. M82	Connector Name WIRE TO WIRE	Connector Type NS10MH-CS	 	Terminal No. 2 6	Color of Wire O W	Signal Name [Specification]
Connector No. M95	Connector Name CENTER SPEAKER	Connector Type TK2FBR	 	Terminal No. 1 2	Color of Wire V P	Signal Name [Specification]
Connector No. M352	Connector Name COMBINATION SWITCH (SPIRAL CABLE)	Connector Type TK08FGY	 	Terminal No. 16 17 20	Color of Wire - - -	Signal Name [Specification]
Connector No. M401	Connector Name AUDIO UNIT	Connector Type GT13SH-2/1S-HU	 	Terminal No. 51 52	Color of Wire - -	Signal Name [Specification] ANTENNA SIGNAL ANTENNA AMP. ON SIGNAL
Connector No. M402	Connector Name WIRE TO WIRE	Connector Type GT13SC-1/1S-HU	 	Terminal No. 1 2	Color of Wire - -	Signal Name [Specification]
Connector No. M403	Connector Name WIRE TO WIRE	Connector Type GT13SCN-1/1PP-HU	 	Terminal No. 1 2	Color of Wire - -	Signal Name [Specification]
Connector No. M404	Connector Name RADIO ANTENNA	Connector Type GT13SN-1/1PP-HU	 	Terminal No. 1 2	Color of Wire - -	Signal Name [Specification]

JCNWM1651GI

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BOSE AUDIO

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	SHIELD	-
3	W	-
8	R	-
9	B	-

Connector No.	R3
Connector Name	MICROPHONE
Connector Type	TK04FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	MICROPHONE SIGNAL (+)
2	R	MICROPHONE SIGNAL (-)
4	W	MICROPHONE POWER

# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

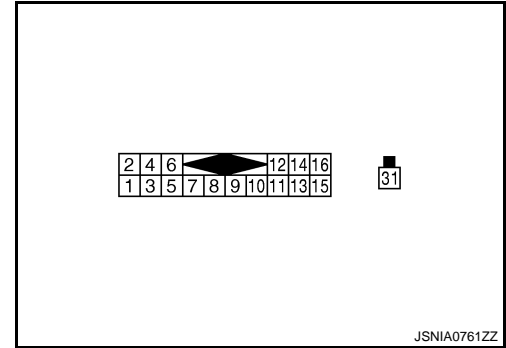
[BOSE AUDIO]

## SATELLITE RADIO TUNER

Reference Value

INFOID:000000005255162

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/Output			
2 (L)	1 (R)	Satellite radio sound signal LH	Output	Ignition switch ON	When satellite radio mode is selected	<p>SKIB3609E</p>
4 (W)	3 (G)	Satellite radio sound signal RH	Output	Ignition switch ON	When satellite radio mode is selected	<p>SKIB3609E</p>
5	—	Shield	—	—	—	—
6	—	Shield	—	—	—	—
8 (Y)	Ground	Request signal (SAT TO AUDIO)	Output	Ignition switch ON	When satellite radio mode is selected	<p>JSNIA0675ZZ</p>
9 (G)	Ground	Communication signal (SAT-AUDIO)	Output	Ignition switch ON	When satellite radio mode is selected	<p>PKIB5039J</p>

# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

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

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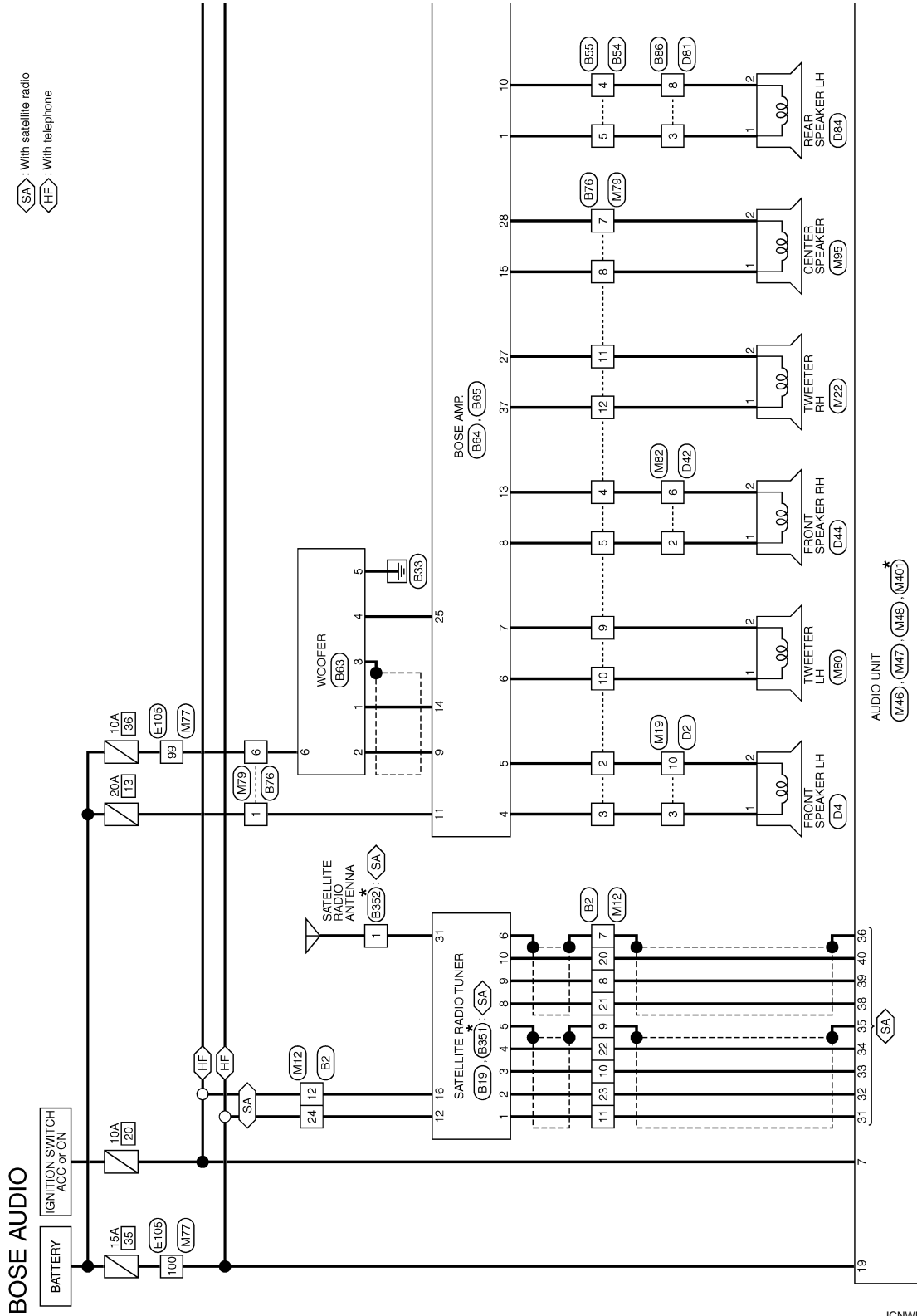
# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## Wiring Diagram - BOSE AUDIO -

INFOID:000000005255163



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

2008/07/15

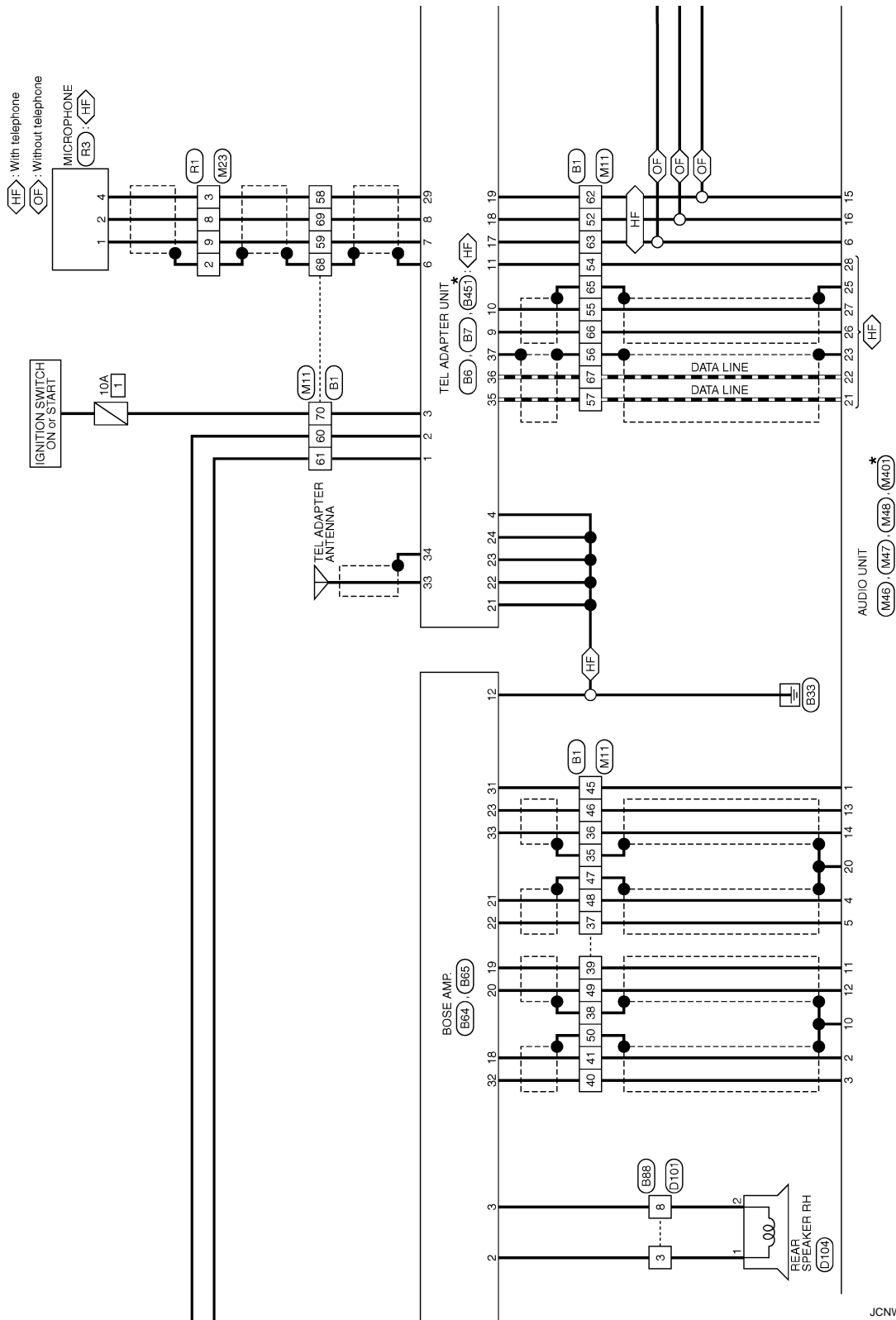
JCNWM1642GI



# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]



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

JCNWM1643GI

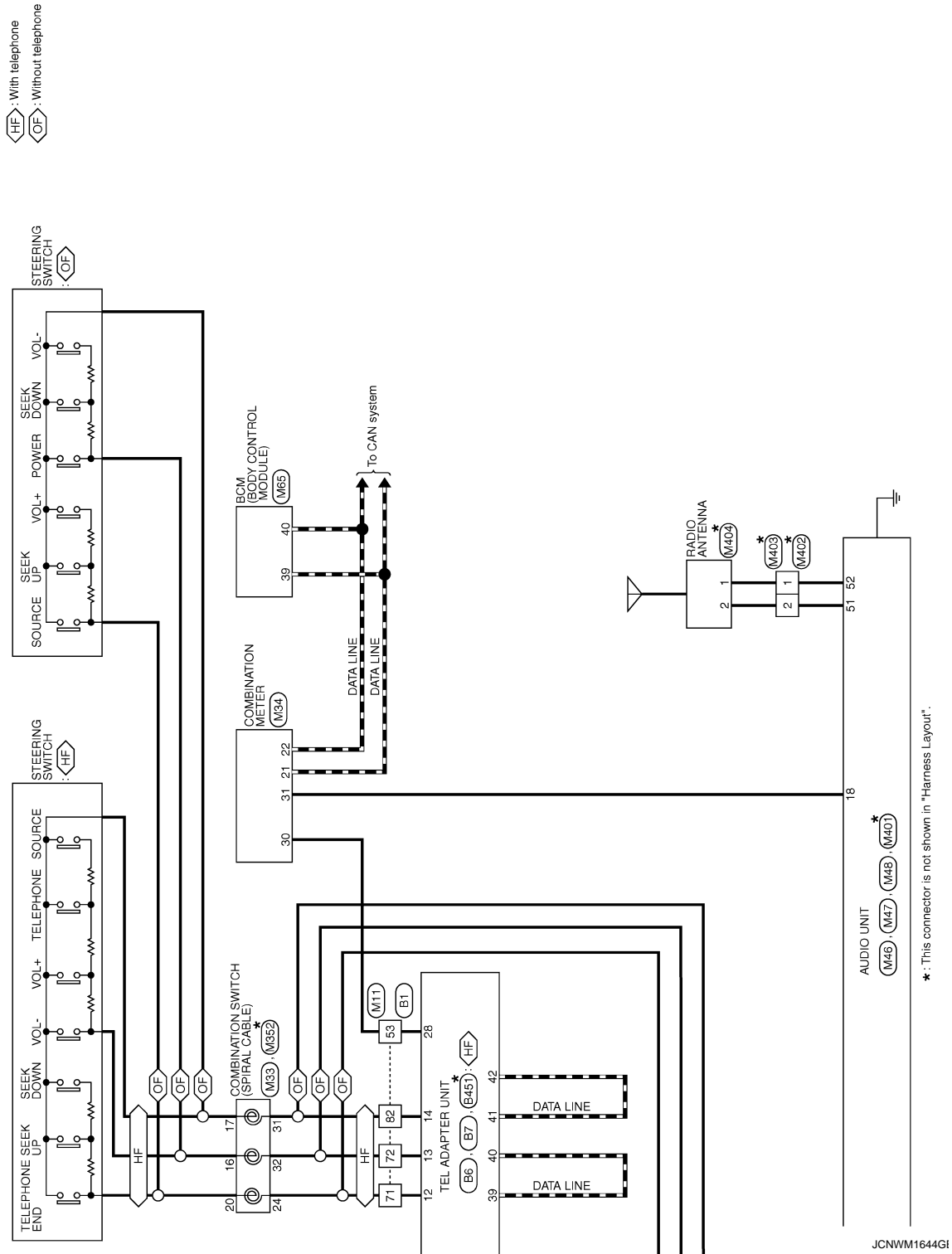
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# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]



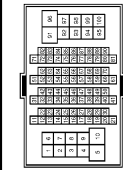
# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

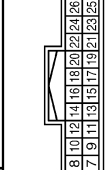
## BOSE AUDIO

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80WV-CS1F-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
35	SHIELD	-
36	R	-
37	LG	-
38	SHIELD	-
39	O	-
40	G	-
41	R	-
45	L	-
46	W	-
47	SHIELD	-
48	V	-

Connector No.	B8
Connector Name	TEL ADAPTER UNIT
Connector Type	TH2FW-NH

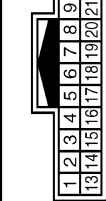


Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	BAT
2	SB	ACC
3	W	IGN
4	B	GND
6	SHIELD	SHIELD
7	B	MICROPHONE SIGNAL (+)
8	R	MICROPHONE SIGNAL (-)
9	BR	SOUND SIGNAL (+)
10	Y	SOUND SIGNAL (-)
11	O	TELEPHONE ON SIGNAL
12	W	STEERING SW SIGNAL A

49	W	-
50	SHIELD	-
52	L	-
53	G	-
54	O	-
55	Y	-
56	SHIELD	-
57	L	-
58	W	-
59	B	-
60	SB	-
61	BR	-
62	GR	-
63	W	-
65	SHIELD	-
66	BR	-
67	P	-
68	SHIELD	-
69	R	-
70	W	-
71	W	-
72	Y	-
82	GR	-

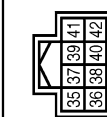
13	Y	STEERING SW SIGNAL B
14	GR	STEERING SW SIGNAL GND
17	W	STEERING SW SIGNAL A
18	L	STEERING SW SIGNAL B
19	GR	STEERING SW SIGNAL GND
21	B	GND
22	B	GND
23	B	GND
24	B	GND
28	G	VEHICLE SPEED SIGNAL (2-PULSE)
29	W	MICROPHONE POWER

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	TH24WV-NH



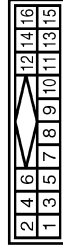
Terminal No.	Color of Wire	Signal Name [Specification]
7	SHIELD	-
8	G	-
9	SHIELD	-
10	G	-
11	B	-
12	SB	-
20	L	-
21	Y	-
22	W	-
23	L	-
24	BR	-

Connector No.	B7
Connector Name	TEL ADAPTER UNIT
Connector Type	TH8BFW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
35	L	AV COMMUNICATION SIGNAL (H)
36	P	AV COMMUNICATION SIGNAL (L)
37	SHIELD	SHIELD
39	W	-
40	W	-
41	R	-
42	R	-

Connector No.	B19
Connector Name	SATELLITE RADIO TUNER
Connector Type	A18FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL LH (-)
2	L	SOUND SIGNAL LH (+)
3	G	SOUND SIGNAL RH (-)
4	W	SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
8	Y	REQUEST SIGNAL (SAT TO AUDIO)
9	G	COMMUNICATION SIGNAL (SAT-AUDIO)
10	L	COMMUNICATION SIGNAL (AUDIO-SAT)
12	BR	BAT
16	SB	ACC

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# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## BOSE AUDIO

Connector No.	B54
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	L	-

Connector No.	B55
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



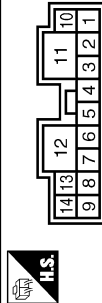
Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	L	-

Connector No.	B53
Connector Name	WOOFER
Connector Type	RS08FGY-FR



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

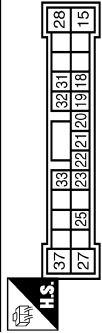
Connector No.	B64
Connector Name	BOSE AMP.
Connector Type	SGA12FBR-SJAZ



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	SOUND SIGNAL REAR SPEAKER LH (+)
2	GR	SOUND SIGNAL REAR SPEAKER RH (+)
3	Y	SOUND SIGNAL REAR SPEAKER LH (-)
4	B	SOUND SIGNAL FRONT SPEAKER LH (+)
5	P	SOUND SIGNAL FRONT SPEAKER RH (+)
6	BR	SOUND SIGNAL TWEETER LH (-)
7	GR	SOUND SIGNAL TWEETER LH (+)
8	G	SOUND SIGNAL FRONT SPEAKER RH (+)
9	Y	SOUND SIGNAL WOOFER (+)
10	R	SOUND SIGNAL REAR SPEAKER LH (-)
11	W	BAT

Terminal No.	12	B	GND
Terminal No.	13	R	SOUND SIGNAL FRONT SPEAKER RH (-)
Terminal No.	14	BR	SOUND SIGNAL WOOFER (-)

Connector No.	B65
Connector Name	BOSE AMP.
Connector Type	SCA19FBR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	V	SOUND SIGNAL CENTER SPEAKER (+)
18	R	SOUND SIGNAL FRONT LH (+)
19	O	SOUND SIGNAL FRONT RH (+)
20	W	SOUND SIGNAL FRONT RH (-)
21	V	SOUND SIGNAL REAR LH (+)
22	LG	SOUND SIGNAL REAR LH (-)
23	W	SOUND SIGNAL REAR RH (+)
25	G	WOOFER AMP. ON SIGNAL
27	W	SOUND SIGNAL TWEETER RH (-)
28	O	SOUND SIGNAL CENTER SPEAKER (-)
31	L	AMP. ON SIGNAL

Terminal No.	32	G	SOUND SIGNAL FRONT LH (-)
Terminal No.	33	R	SOUND SIGNAL REAR RH (-)
Terminal No.	37	O	SOUND SIGNAL TWEETER RH (+)

# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## BOSE AUDIO

Connector No.	B376
Connector Name	WIRE TO WIRE
Connector Type	NS12MWF-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	P	-
3	B	-
4	R	-
5	G	-
6	SB	-
7	O	-
8	V	-
9	GR	-
10	BR	-
11	W	-

Connector No.	B351
Connector Name	SATELLITE RADIO TUNER
Connector Type	FAKRA JACK



Terminal No.	31	Color of Wire	-	Signal Name [Specification]	-
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Connector No.	B366
Connector Name	WIRE TO WIRE
Connector Type	NS12MWF-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
3	L	-
8	R	-

Connector No.	B481
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-IS-HU



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

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS12MWF-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
3	GR	-
8	Y	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



7	6	5	4	3	2	1
16	15	14	13	12	11	10
9	8					

Terminal No.	10	Color of Wire	P	Signal Name [Specification]	-
	3		B		-










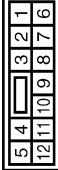

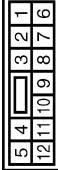



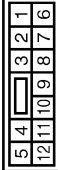



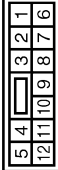





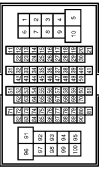
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# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## BOSE AUDIO

Connector No. D4	Connector Name FRONT SPEAKER LH	Connector Type NS12FW-CS	 	Terminal No. 1	Color of Wire B	Signal Name [Specification]	
Connector No. D4	Connector Name FRONT SPEAKER RH	Connector Type NS12FW-CS	 	Terminal No. 2	Color of Wire G	Signal Name [Specification]	
Connector No. D42	Connector Name WIRE TO WIRE	Connector Type NS12FW-CS	 	Terminal No. 6	Color of Wire R	Signal Name [Specification]	
Connector No. D44	Connector Name FRONT SPEAKER RH	Connector Type NS12FW-CS	 	Terminal No. 1	Color of Wire G	Signal Name [Specification]	
Connector No. D44	Connector Name FRONT SPEAKER RH	Connector Type NS12FW-CS	 	Terminal No. 3	Color of Wire L	Signal Name [Specification]	
Connector No. D44	Connector Name FRONT SPEAKER RH	Connector Type NS12FW-CS	 	Terminal No. 8	Color of Wire R	Signal Name [Specification]	
Connector No. D84	Connector Name REAR SPEAKER LH (WITH BOSE SYSTEM)	Connector Type NS12FW-CS	 	Terminal No. 1	Color of Wire L	Signal Name [Specification]	
Connector No. D84	Connector Name REAR SPEAKER LH (WITH BOSE SYSTEM)	Connector Type NS12FW-CS	 	Terminal No. 3	Color of Wire GR	Signal Name [Specification]	
Connector No. D84	Connector Name REAR SPEAKER LH (WITH BOSE SYSTEM)	Connector Type NS12FW-CS	 	Terminal No. 2	Color of Wire Y	Signal Name [Specification]	
Connector No. D101	Connector Name WIRE TO WIRE	Connector Type NS12FW-CS	 	Terminal No. 8	Color of Wire Y	Signal Name [Specification]	
Connector No. D101	Connector Name WIRE TO WIRE	Connector Type NS12FW-CS	 	Terminal No. 1	Color of Wire GR	Signal Name [Specification]	
Connector No. D101	Connector Name WIRE TO WIRE	Connector Type NS12FW-CS	 	Terminal No. 99	Color of Wire SB	Signal Name [Specification]	
Connector No. E105	Connector Name WIRE TO WIRE	Connector Type TH8DFW-CS16-TM4	 	Terminal No. 100	Color of Wire L	Signal Name [Specification]	

JCNWM1648GI

# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

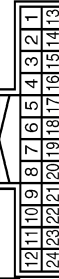
## BOSE AUDIO

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS3,8MP-CS



Terminal No.	Color of Wire	Signal Name [Specification]
3	R	-
10	G	-

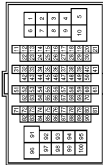
Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Type	TH2,4FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
7	SHIELD	-
8	B	-
9	SHIELD	-
10	G	-
11	R	-
12	SB	-
20	L	-
21	Y	-
22	W	-
23	L	-
24	BR	-

49	W	-
50	SHIELD	-
52	O	-
53	G	-
54	V	-
55	Y	-
56	SHIELD	-
57	L	-
58	W	-
59	B	-
60	SB	-
61	BR	-
62	GR	-
63	W	-
65	SHIELD	-
66	BR	-
67	P	-
68	SHIELD	-
69	R	-
70	LG	-
71	BR	-
72	O	-
82	GR	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-CS1.6-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
35	SHIELD	-
36	P	-
37	LG	-
38	SHIELD	-
39	O	-
40	G	-
41	R	-
45	BR	-
46	L	-
47	SHIELD	-
48	V	-

Connector No.	M4
Connector Name	COMBINATION METER
Connector Type	SAB40FW

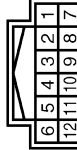


Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V



Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L
30	Y	VEHICLE SPEED (2-PULSE)
31	L	VEHICLE SPEED (8-PULSE)

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	SHIELD	-
3	W	-
8	R	-
9	B	-

Connector No.	M22
Connector Name	TWEETER RH
Connector Type	TK02FBR



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

JCNWM1649G1

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# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## BOSE AUDIO

Connector No.	M48
Connector Name	AUDIO UNIT
Connector Type	A12FW



32	34	40	42
31	33	35	36
37	38	39	41

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

Terminal No.	12
Color of Wire	L

Connector No.	M47
Connector Name	AUDIO UNIT
Connector Type	TH88FW-NH



21	22	23	24
25	26	27	28

Terminal No.	Color of Wire	Signal Name [Specification]
21	L	AV COMMUNICATION SIGNAL (R)
22	P	AV COMMUNICATION SIGNAL (L)
23	SHIELD	SHIELD
24	SHIELD	SHIELD
25	SHIELD	SHIELD
26	BR	SOUND SIGNAL (+)
27	Y	SOUND SIGNAL (-)
28	V	TELEPHONE ON SIGNAL

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	G	-
3	R	-
4	W	-
5	O	-
6	SB	-
7	P	-
8	V	-
9	GR	-
10	BR	-
11	Y	-

13	L	SOUND SIGNAL REAR RH (+)
14	P	SOUND SIGNAL REAR RH (+)
15	GR	STEERING SW SIGNAL GND
16	O	STEERING SW SIGNAL B
18	L	VEHICLE SPEED SIGNAL (6-PULSE)
19	Y	BAT
20	SHIELD	SHIELD

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name [Specification]
99	SB	-
100	Y	-

Connector No.	M46
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CSZ



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	AMP ON SIGNAL
2	R	SOUND SIGNAL FRONT LH (+)
3	G	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	LG	SOUND SIGNAL REAR LH (-)
6	W	STEERING SW SIGNAL A (With telephone)
8	BR	STEERING SW SIGNAL A (Without telephone)
9	SB	ACC
10	SHIELD	SHIELD
11	O	SOUND SIGNAL FRONT RH (+)
12	W	SOUND SIGNAL FRONT RH (-)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

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

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# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]



## BOSE AUDIO

Connector No.	M432
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY



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

Connector No.	M495
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



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

Connector No.	M482
Connector Name	WIRE TO WIRE
Connector Type	NS10MHP-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	O	-
6	W	-

Connector No.	M480
Connector Name	TWEETER LH
Connector Type	TK02FBR



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

Connector No.	M404
Connector Name	RADIO ANTENNA
Connector Type	GT13SSN-1/1PP-HU



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

Connector No.	M403
Connector Name	WIRE TO WIRE
Connector Type	GT13SSCN-1/1PP-HU



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

Connector No.	M402
Connector Name	WIRE TO WIRE
Connector Type	GT13SSC-1/1S-HU

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

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

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

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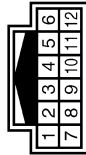
# SATELLITE RADIO TUNER

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## BOSE AUDIO

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	SHIELD	
3	W	
8	R	
9	B	

Connector No.	R3
Connector Name	MICROPHONE
Connector Type	TK04FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	MICROPHONE SIGNAL (+)
2	R	MICROPHONE SIGNAL (-)
4	W	MICROPHONE POWER

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# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

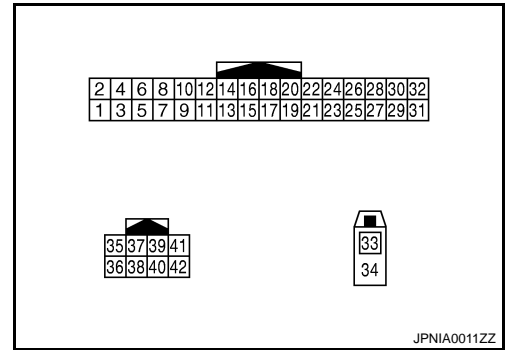
[BOSE AUDIO]

## TEL ADAPTER UNIT

Reference Value

INFOID:000000005255164

TERMINAL LAYOUT





PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (BR)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
2 (SB)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
3 (W)	Ground	Ignition signal	Input	Ignition switch ON	—	Battery voltage
4 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
6	—	Shield	—	—	—	—
7 (B)	8 (R)	Microphone signal	Input	Ignition switch ON	Give a voice	
9 (BR)	10 (Y)	Sound signal (Telephone voice, tele- phone guidance)	Output	Ignition switch ON	During voice guide output with the  switch pressed	
11 (O)	Ground	Telephone ON signal	Output	Ignition switch ON	While using hands-free phone system	0 V
					While not using hands-free phone system	5.0 V

# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

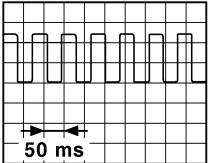
[BOSE AUDIO]

Terminal (Wire color)		Description		Condition	Reference value (Approx.)	
+	-	Signal name	Input/ Output			
12 (W)	14 (GR)	Steering switch signal A	Input	Ignition switch ON	Keep pressing  switch	0 V
					Keep pressing SEEK UP switch	1.25 V
					Keep pressing SEEK DOWN switch	2.5 V
					Except for above	5.0 V
13 (Y)	14 (GR)	Steering switch signal B	Input	Ignition switch ON	Keep pressing VOL DOWN switch	0 V
					Keep pressing VOL UP switch	1.25 V
					Keep pressing  switch	2.5 V
					Keep pressing SOURCE switch	3.7 V
					Except for above.	5.0 V
14 (GR)	Ground	Steering switch signal ground	—	Ignition switch ON	—	0 V
17 (W)	19 (GR)	Steering switch signal A	Output	Ignition switch ON	Keep pressing SOURCE switch	0 V
					Keep pressing SEEK UP switch	1.1 V
					Keep pressing VOL UP switch	2.2 V
					Except for above	3.3 V
18 (L)	19 (GR)	Steering switch signal B	Output	Ignition switch ON	Keep pressing SEEK DOWN switch	1.1 V
					Keep pressing VOL DOWN switch	2.2 V
					Except for above	3.3 V
19 (GR)	Ground	Steering switch signal ground	—	Ignition switch ON	—	0 V
21 (B)	Ground	Control signal	—	Ignition switch ON	—	0 V
22 (B)	Ground	Control signal	—	Ignition switch ON	—	0 V
23 (B)	Ground	Control signal	—	Ignition switch ON	—	0 V
24 (B)	Ground	Ground	—	Ignition switch ON	—	0 V

# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
28 (G)	Ground	Vehicle speed signal (2-pulse)	Input	Ignition switch ON	When vehicle speed is ap- prox. 40 km/h (25MPH)	<p><b>NOTE:</b> The maximum voltage varies de- pending on the specification (destination unit).</p>  <p style="text-align: right; font-size: small;">JSNIA0015GB</p>
29 (W)	Ground	Microphone power supply	Output	Ignition switch ON	—	5.0 V
33	—	TEL antenna signal	Input	—	—	—
34	—	Shield	—	—	—	—
35 (L)	—	AV communication signal (H)	Input/ Output	—	—	—
36 (P)	—	AV communication signal (L)	Input/ Output	—	—	—
37	—	Shield	—	—	—	—
39 (W)	—	Data line	—	—	—	—
40 (W)	—	Data line	—	—	—	—
41 (R)	—	Data line	—	—	—	—
42 (R)	—	Data line	—	—	—	—

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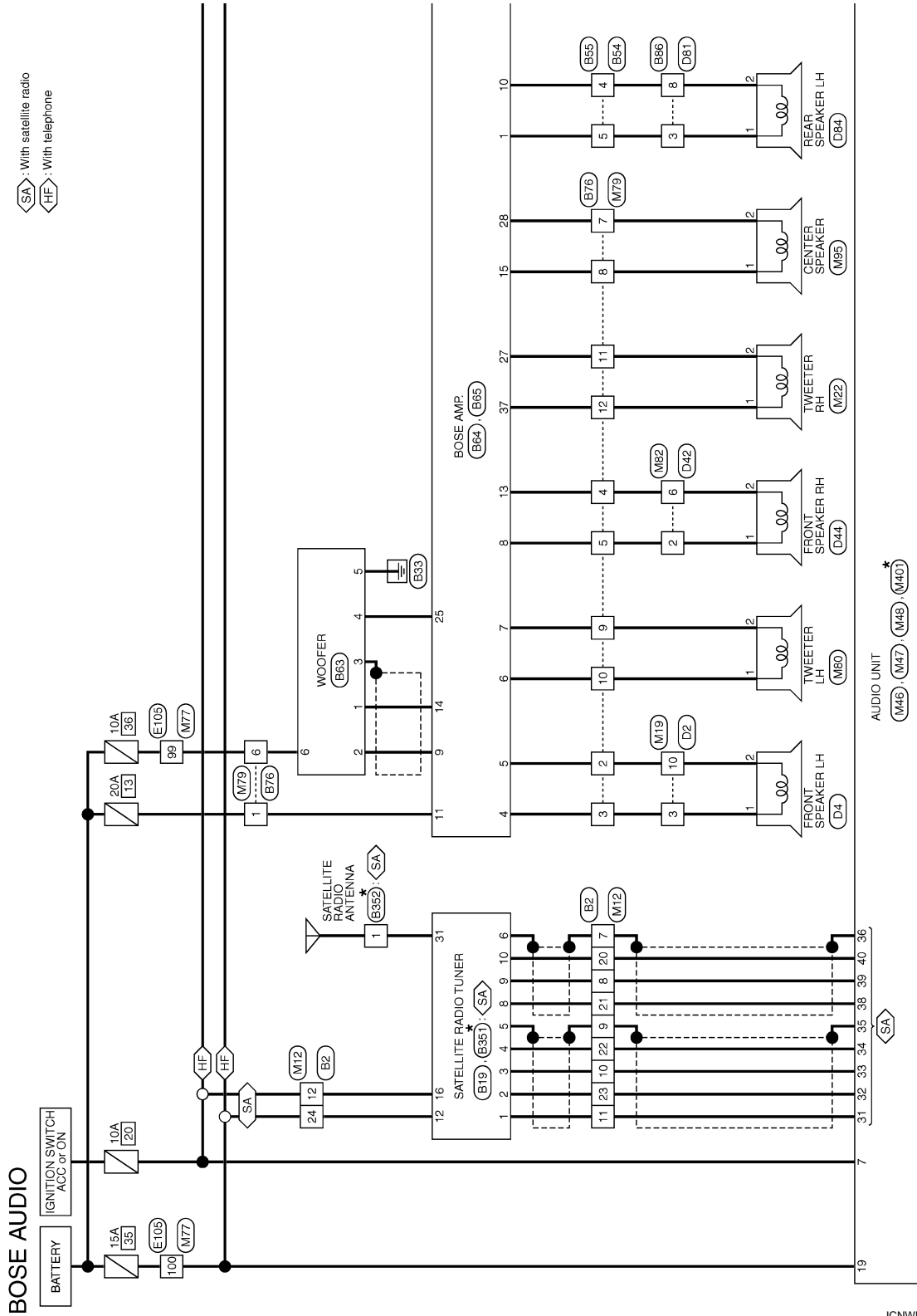
# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## Wiring Diagram - BOSE AUDIO -

INFOID:000000005255165



SA: With satellite radio  
HF: With telephone

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

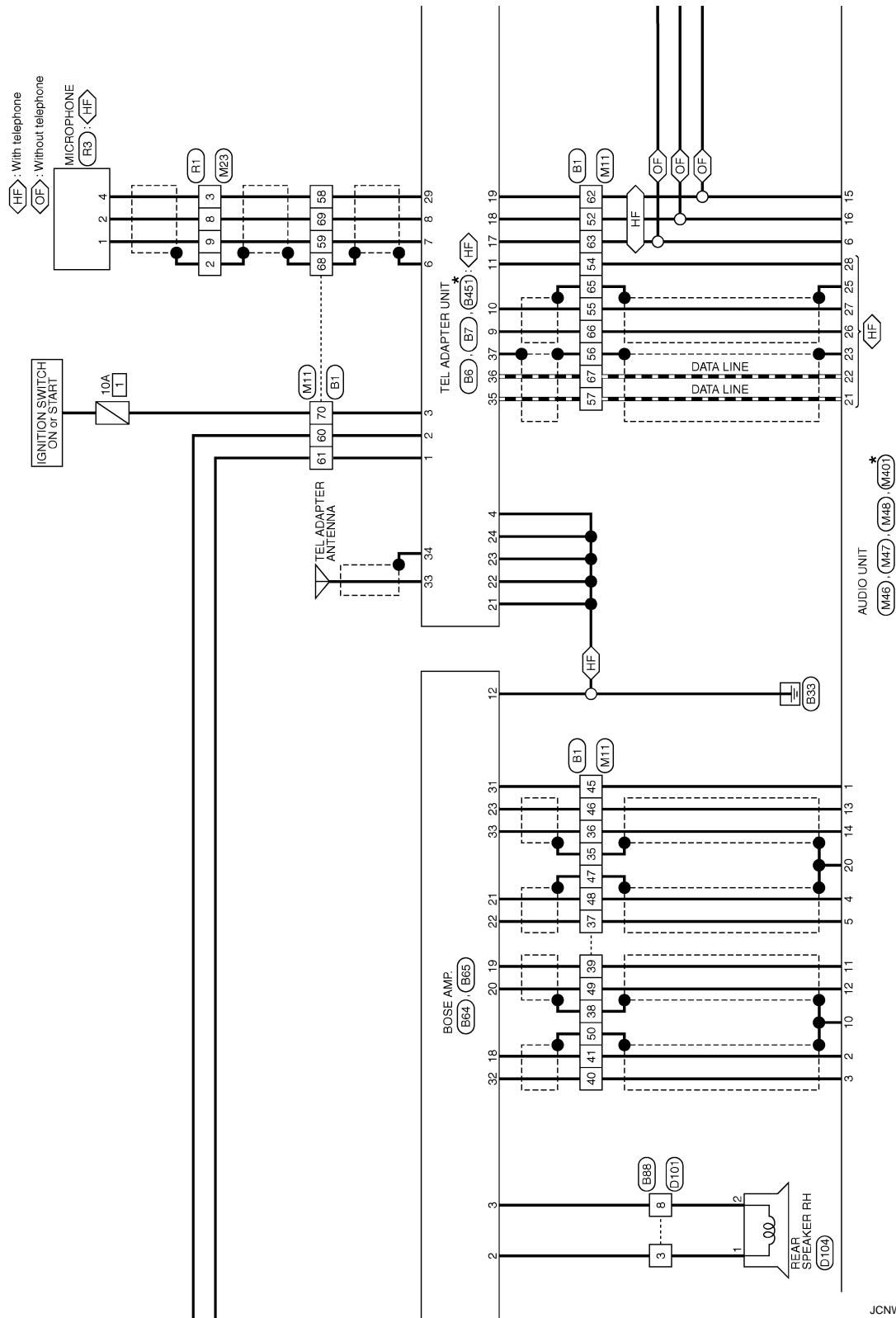
2008/07/15

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# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]



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

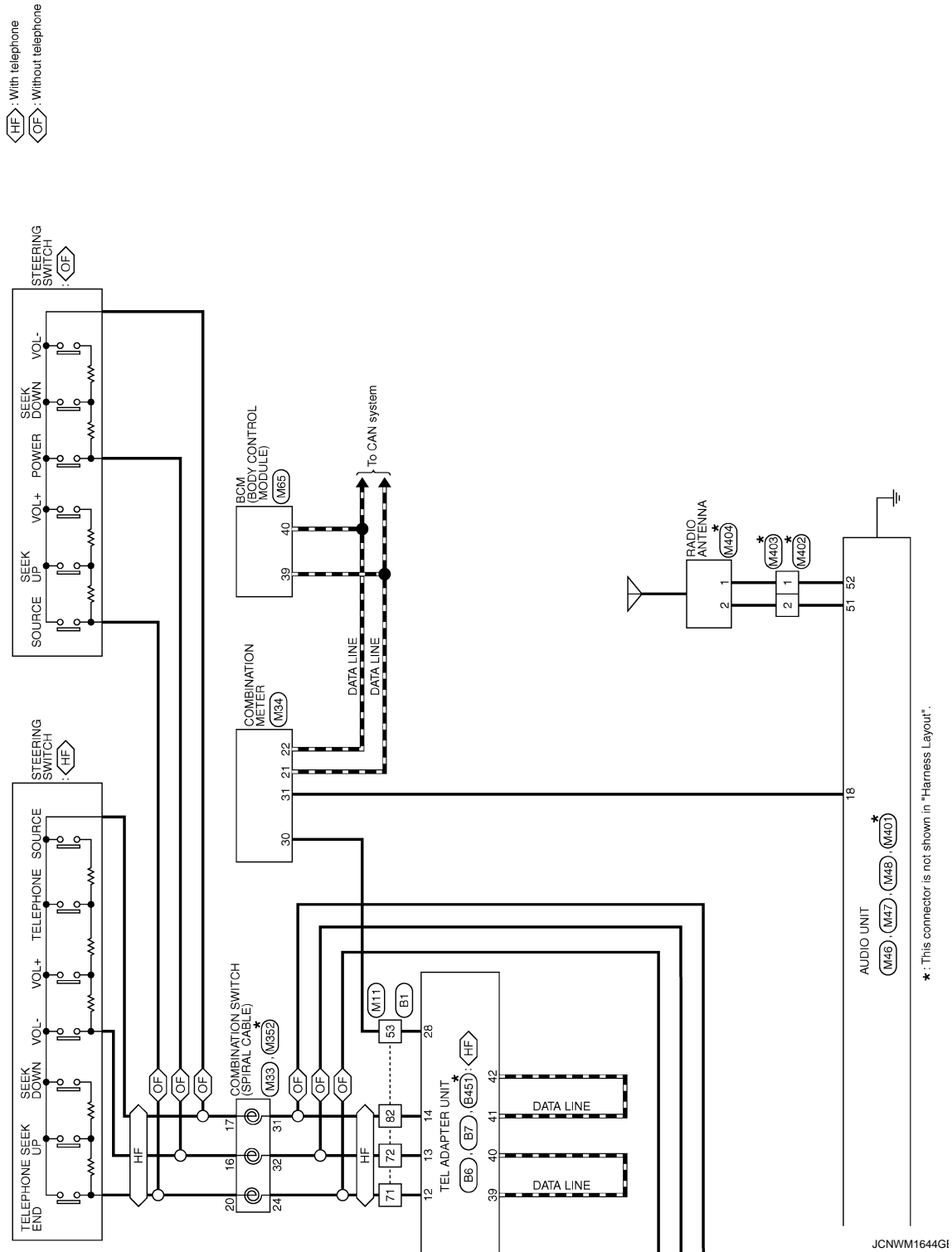
JCNWM1643GI

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# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]





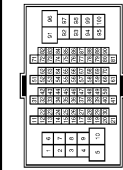
# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

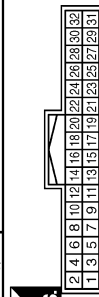
## BOSE AUDIO

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80WV-CS1F-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
35	SHIELD	-
36	R	-
37	LG	-
38	SHIELD	-
39	O	-
40	G	-
41	R	-
45	L	-
46	W	-
47	SHIELD	-
48	V	-

Connector No.	B8
Connector Name	TEL ADAPTER UNIT
Connector Type	TH2FW-NH

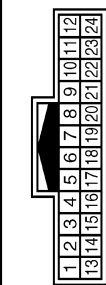


Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	BAT
2	SB	ACC
3	W	IGN
4	B	GND
6	SHIELD	SHIELD
7	B	MICROPHONE SIGNAL (+)
8	R	MICROPHONE SIGNAL (-)
9	BR	SOUND SIGNAL (+)
10	Y	SOUND SIGNAL (-)
11	O	TELEPHONE ON SIGNAL
12	W	STEERING SW SIGNAL A

49	W	-
50	SHIELD	-
52	L	-
53	G	-
54	O	-
55	Y	-
56	SHIELD	-
57	L	-
58	W	-
59	B	-
60	SB	-
61	BR	-
62	GR	-
63	W	-
65	SHIELD	-
66	BR	-
67	P	-
68	SHIELD	-
69	R	-
70	W	-
71	W	-
72	Y	-
82	GR	-

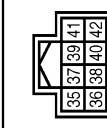
13	Y	STEERING SW SIGNAL B
14	GR	STEERING SW SIGNAL GND
17	W	STEERING SW SIGNAL A
18	L	STEERING SW SIGNAL B
19	GR	STEERING SW SIGNAL GND
21	B	GND
22	B	GND
23	B	GND
24	B	GND
28	G	VEHICLE SPEED SIGNAL (2-PULSE)
29	W	MICROPHONE POWER

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	TH24WV-NH



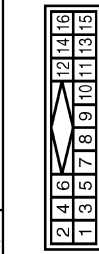
Terminal No.	Color of Wire	Signal Name [Specification]
7	SHIELD	-
8	G	-
9	SHIELD	-
10	G	-
11	B	-
12	SB	-
20	L	-
21	Y	-
22	W	-
23	L	-
24	BR	-

Connector No.	B7
Connector Name	TEL ADAPTER UNIT
Connector Type	TH80FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
35	L	AV COMMUNICATION SIGNAL (H)
36	P	AV COMMUNICATION SIGNAL (L)
37	SHIELD	SHIELD
39	W	-
40	W	-
41	R	-
42	R	-

Connector No.	B19
Connector Name	SATELLITE RADIO TUNER
Connector Type	A18FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL LH (-)
2	L	SOUND SIGNAL LH (+)
3	G	SOUND SIGNAL RH (-)
4	W	SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
8	Y	REQUEST SIGNAL (SAT TO AUDIO)
9	G	COMMUNICATION SIGNAL (SAT-AUDIO)
10	L	COMMUNICATION SIGNAL (AUDIO-SAT)
12	BR	BAT
16	SB	ACC

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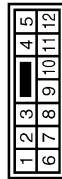
# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

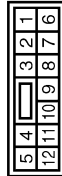
## BOSE AUDIO

Connector No.	B54
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	L	-

Connector No.	B55
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



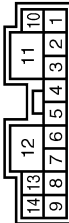
Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	L	-

Connector No.	B53
Connector Name	WOOFER
Connector Type	RS08FGY-FR



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

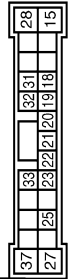
Connector No.	B64
Connector Name	BOSE AMP.
Connector Type	SGA12FBR-SJAZ



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	SOUND SIGNAL REAR SPEAKER LH (+)
2	GR	SOUND SIGNAL REAR SPEAKER RH (+)
3	Y	SOUND SIGNAL REAR SPEAKER LH (-)
4	B	SOUND SIGNAL FRONT SPEAKER LH (+)
5	P	SOUND SIGNAL FRONT SPEAKER LH (-)
6	BR	SOUND SIGNAL TWEETER LH (-)
7	GR	SOUND SIGNAL TWEETER LH (+)
8	G	SOUND SIGNAL FRONT SPEAKER RH (+)
9	Y	SOUND SIGNAL WOOFER (+)
10	R	SOUND SIGNAL REAR SPEAKER LH (-)
11	W	BAT

Terminal No.	12	B	GND
Terminal No.	13	R	SOUND SIGNAL FRONT SPEAKER RH (-)
Terminal No.	14	BR	SOUND SIGNAL WOOFER (-)

Connector No.	B65
Connector Name	BOSE AMP.
Connector Type	SCA19FBR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
15	V	SOUND SIGNAL CENTER SPEAKER (+)
18	R	SOUND SIGNAL FRONT LH (+)
19	O	SOUND SIGNAL FRONT RH (+)
20	W	SOUND SIGNAL FRONT RH (-)
21	V	SOUND SIGNAL REAR LH (+)
22	LG	SOUND SIGNAL REAR LH (-)
23	W	SOUND SIGNAL REAR RH (+)
25	G	WOOFER AMP. ON SIGNAL
27	W	SOUND SIGNAL TWEETER RH (-)
28	O	SOUND SIGNAL CENTER SPEAKER (-)
31	L	AMP. ON SIGNAL

Terminal No.	32	G	SOUND SIGNAL FRONT LH (-)
Terminal No.	33	R	SOUND SIGNAL REAR RH (-)
Terminal No.	37	O	SOUND SIGNAL TWEETER RH (+)

JCNWM1646G1

# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## BOSE AUDIO

Connector No.	B76
Connector Name	WIRE TO WIRE
Connector Type	NS12MF-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	P	-
3	B	-
4	R	-
5	G	-
6	SB	-
7	O	-
8	V	-
9	GR	-
10	BR	-
11	W	-

Connector No.	B351
Connector Name	SATELLITE RADIO TUNER
Connector Type	FAKRA JACK



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

12	O
----	---

Connector No.	B98
Connector Name	WIRE TO WIRE
Connector Type	NS12MF-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
3	L	-
8	R	-

Connector No.	B481
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-IS-HU



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

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS12MF-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
3	GR	-
8	Y	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



7	6	5	4	3	2	1
16	15	14	13	12	11	10
9	8					

Terminal No.	10
Color of Wire	B
Signal Name [Specification]	-
Terminal No.	14
Color of Wire	P
Signal Name [Specification]	-

A  
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AV  
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P



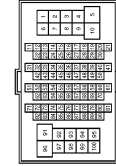
# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## BOSE AUDIO

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	THBDFW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
35	SHIELD	-
36	P	-
37	LG	-
38	SHIELD	-
39	O	-
40	G	-
41	R	-
45	BR	-
46	L	-
47	SHIELD	-
48	V	-

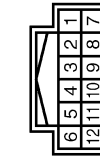
Connector No.	M22
Connector Name	TWEETER RH
Connector Type	TK02FBR



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

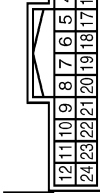
49	W	-
50	SHIELD	-
52	O	-
53	G	-
54	V	-
55	Y	-
56	SHIELD	-
57	L	-
58	W	-
59	B	-
60	SB	-
61	BR	-
62	GR	-
63	W	-
65	SHIELD	-
66	BR	-
67	P	-
68	SHIELD	-
69	R	-
70	LG	-
71	BR	-
72	O	-
82	GR	-

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



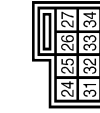
Terminal No.	Color of Wire	Signal Name [Specification]
2	SHIELD	-
3	W	-
8	R	-
9	B	-

Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
7	SHIELD	-
8	B	-
9	SHIELD	-
10	G	-
11	R	-
12	SB	-
20	L	-
21	Y	-
22	W	-
23	L	-
24	BR	-

Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V



Terminal No.	Color of Wire	Signal Name [Specification]
24	BR	-
31	GR	-
32	O	-

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16MP-CS



Terminal No.	Color of Wire	Signal Name [Specification]
3	R	-
10	G	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L
30	Y	VEHICLE SPEED (2-PULSE)
31	L	VEHICLE SPEED (8-PULSE)

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# TEL ADAPTER UNIT

< ECU DIAGNOSIS INFORMATION >

[BOSE AUDIO]

## BOSE AUDIO

Connector No.	M48
Connector Name	AUDIO UNIT
Connector Type	A12FW



32	34	40	42
31	33	35	36
37	38	39	41

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

Terminal No.	12	L	-
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Connector No.	M47
Connector Name	AUDIO UNIT
Connector Type	TH88FW-NH



21	22	23	24
25	26	27	28

Terminal No.	Color of Wire	Signal Name [Specification]
21	L	AV COMMUNICATION SIGNAL (H)
22	P	AV COMMUNICATION SIGNAL (L)
23	SHIELD	SHIELD
24	SHIELD	SHIELD
25	SHIELD	SHIELD
26	BR	SOUND SIGNAL (+)
27	Y	SOUND SIGNAL (-)
28	V	TELEPHONE ON SIGNAL

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	G	-
3	R	-
4	W	-
5	O	-
6	SB	-
7	P	-
8	V	-
9	GR	-
10	BR	-
11	Y	-

13	L	SOUND SIGNAL REAR RH (+)
14	P	SOUND SIGNAL REAR RH (+)
15	GR	STEERING SW SIGNAL GND
16	O	STEERING SW SIGNAL B
18	L	VEHICLE SPEED SIGNAL (6-PULSE)
19	Y	BAT
20	SHIELD	SHIELD

Connector No.	M46
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CSZ



11	12	13	14	15	16	17	18	20
19	10	11	12	13	14	15	16	17
18	19	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	AMP. ON SIGNAL
2	R	SOUND SIGNAL FRONT LH (+)
3	G	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	LG	SOUND SIGNAL REAR LH (-)
6	W	STEERING SW SIGNAL A(With telephone)
8	BR	STEERING SW SIGNAL A(Without telephone)
9	SB	ACC
10	SHIELD	SHIELD
11	O	SOUND SIGNAL FRONT RH (+)
12	W	SOUND SIGNAL FRONT RH (-)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name [Specification]
99	SB	-
100	Y	-

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

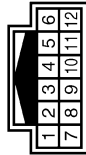
Terminal No.	Color of Wire	Signal Name [Specification]
38	L	CAN-H
40	P	CAN-L

JCNWM1650GI



BOSE AUDIO

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	THZ2MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	SHIELD	-
3	W	-
8	R	-
9	B	-

Connector No.	R3
Connector Name	MICROPHONE
Connector Type	TK04FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	MICROPHONE SIGNAL (+)
2	R	MICROPHONE SIGNAL (-)
4	W	MICROPHONE POWER



# AUDIO SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO]

## SYMPTOM DIAGNOSIS

### AUDIO SYSTEM SYMPTOMS

#### Symptom Table

INFOID:000000005255166

#### AUDIO SYSTEM

Symptoms	Check items	Possible malfunction location / Action to take
Audio sound is not heard.	No sound from all speakers.	<ul style="list-style-type: none"> <li>Audio unit power supply and ground circuit. Refer to <a href="#">AV-50, "AUDIO UNIT : Diagnosis Procedure"</a>.</li> <li>BOSE amp. power supply and ground circuit. Refer to <a href="#">AV-50, "BOSE AMP. : Diagnosis Procedure"</a>.</li> <li>Amp. ON signal circuit. Refer to <a href="#">AV-72, "Diagnosis Procedure"</a>.</li> </ul>
	Sound is not heard from woofer.	<ul style="list-style-type: none"> <li>Sound signal woofer circuit</li> <li>Woofer amp. ON signal circuit. Refer to <a href="#">AV-73, "Diagnosis Procedure"</a>.</li> </ul>
	Sound is not heard only from the specific places.	Sound signal circuit of malfunctioning system.
Satellite radio is not received.	When "RADIO" switch is pressed, it change to satellite radio mode.	<ul style="list-style-type: none"> <li>Satellite radio sound signal circuit</li> <li>Satellite radio antenna</li> </ul>
	When "RADIO" switch is pressed, it does not change to satellite radio mode.	<ul style="list-style-type: none"> <li>Satellite radio tuner power supply and ground circuit. Refer to <a href="#">AV-51, "SATELLITE RADIO TUNER : Diagnosis Procedure"</a>.</li> <li>Request signal circuit. Refer to <a href="#">AV-70, "Diagnosis Procedure"</a>.</li> <li>Communication circuit between audio unit and satellite radio tuner. Refer to <a href="#">AV-68, "Diagnosis Procedure"</a>.</li> </ul>

#### RELATED TO STEERING SWITCH

Symptoms	Possible malfunction location / Action to take
All steering switches are not operated.	Without hands-free phone <ul style="list-style-type: none"> <li>Steering switch signal ground circuit. Refer to <a href="#">AV-57, "Component Inspection"</a>.</li> </ul> With hands-free phone <ul style="list-style-type: none"> <li>Steering switch signal ground circuit. Refer to <a href="#">AV-67, "Diagnosis Procedure"</a>.</li> </ul>
Only specified switch cannot be operated.	Steering switch
"SEEK UP", "SEEK DOWN" and " " switches are not operated.	Steering switch signal A circuit (steering switch to TEL adapter unit). Refer to <a href="#">AV-59, "Diagnosis Procedure"</a> .
" " , "VOL UP", "VOL DOWN", "SOURCE" switches are not operated.	Steering switch signal B circuit (steering switch to TEL adapter unit). Refer to <a href="#">AV-61, "Diagnosis Procedure"</a> .
"VOL UP", "SEEK UP" and "SOURCE" switches are not operated.	Without hands-free phone <ul style="list-style-type: none"> <li>Steering switch signal A circuit. Refer to <a href="#">AV-53, "Diagnosis Procedure"</a>.</li> </ul> With hands-free phone <ul style="list-style-type: none"> <li>Steering switch signal A circuit (TEL adapter unit to audio unit). Refer to <a href="#">AV-65, "Diagnosis Procedure"</a>.</li> </ul>
"VOL DOWN" and "SEEK DOWN" switches are not operated.	Without hands-free phone <ul style="list-style-type: none"> <li>Steering switch signal B circuit. Refer to <a href="#">AV-55, "Diagnosis Procedure"</a>.</li> </ul> With hands-free phone <ul style="list-style-type: none"> <li>Steering switch signal B circuit (TEL adapter unit to audio unit). Refer to <a href="#">AV-66, "Diagnosis Procedure"</a>.</li> </ul>

## HANS-FREE PHONE SYMPTOMS

### Symptom Table

INFOID:000000005255167

#### RELATED TO HANDS-FREE PHONE

- Check that the cellular phone is corresponding type (Bluetooth® enabled) when the hands-free related malfunction vehicle is in service before performing a diagnosis.
- There is a case that malfunction occurs due to the version change of the phone type, etc. even though it is a corresponding type. Therefore, confirm it by changing the cellular phone to another corresponding type phone, and check that it operates normally. It is necessary to distinguish whether the cause is the vehicle or cellular phone. Check to ensure the customer's phone is supported by checking the phone compatibility for the hands-free system.

#### Simple Check for Bluetooth® Communication

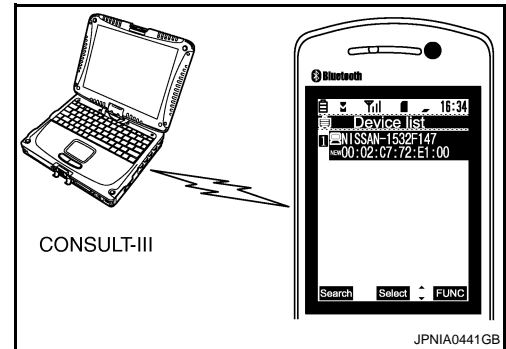
If cellular phone and TEL adapter unit cannot be connected with Bluetooth® communication, following procedure allows the technician to judge which device has malfunction.

1. Turn on a cellular phone, not connecting Bluetooth® communication.
2. Start CONSULT-III, then start Windows®.
3. Set CONSULT-III near a cellular phone.
4. When operated Bluetooth® registration by cellular phone, check if CONSULT-III\* would be displayed on the device name.  
(If other Bluetooth® device is located near cellular phone, a name of the device would be displayed also.)

**NOTE:**

\*:Displayed device name is "NISSAN-\*\*\*\*\*".

- If no device name is displayed, cellular phone is malfunction. Repair the cellular phone first, then perform diagnosis.
- If CONSULT-III is displayed on device name, cellular phone is normal. Perform diagnosis as per the following table.



#### Trouble Diagnosis Chart by Symptom



Symptoms	Check items	Possible malfunction location/Action to take
Does not recognize cellular phone connection.	Repeat the registration of cellular phone.	TEL adapter unit
Hands-free phone cannot be established.	<ul style="list-style-type: none"> <li>• Both the reception and the speech cannot be performed.</li> <li>• Audio cannot be operated by steering switch.</li> </ul>	TEL adapter unit power supply and ground circuit. Refer to <a href="#">AV-51, "TEL ADAPTER UNIT : Diagnosis Procedure"</a> .
	<ul style="list-style-type: none"> <li>• Both the reception and the speech cannot be performed.</li> <li>• Audio can be operated by steering switch.</li> </ul>	Telephone ON signal circuit. Refer to <a href="#">AV-76, "Diagnosis Procedure"</a> .
The other party's voice cannot be heard by hands-free phone.	Audio system sound is normal.	Sound signal (telephone voice, telephone guidance) circuit
	Audio system sound does not sound.	Refer to <a href="#">AV-145, "Symptom Table"</a> .
Originating sound is not heard by the other party with hands-free phone communication.	Sound operation function is normal.	TEL adapter unit
	Sound operation function does not work.	Microphone signal circuit. Refer to <a href="#">AV-74, "Diagnosis Procedure"</a> .
When hands-free phone is in use, the information (connection time etc.) is not displayed on the audio screen.	—	AV communication signal (H, L)

#### RELATED TO STEERING SWITCH

# HANS-FREE PHONE SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO]

Symptoms	Possible malfunction location / Action to take
Only specified switch cannot be operated.	Steering switch
“SEEK UP”, “SEEK DOWN” and “  ” switches are not operated.	Steering switch signal A (steering switch to TEL adapter unit) circuit. Refer to <a href="#">AV-59. "Diagnosis Procedure"</a> .
“  ”, “VOL UP”, “VOL DOWN” and “SOURCE” switches are not operated.	Steering switch signal B (steering switch to TEL adapter unit) circuit. Refer to <a href="#">AV-62. "Component Inspection"</a> .

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AV

# NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO]

## NORMAL OPERATING CONDITION

### Description

INFOID:000000005255168

#### RELATED TO AUDIO

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

**NOTE:**

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

Symptoms	Cause and Counter measure
Cannot play	Check that the CD was inserted correctly.
	Check that the CD is scratched or dirty.
	Check that there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.
	The player will play correctly after it returns to the normal temperature if there is a temperature increase error.
	Only the music CD files (CD-DA data) will be played if there is a mixture of music CD files (CD-DA data) and MP3/WMA files on a CD.
	Files with extensions other than “.MP3”, “.WMA”, “.mp3”, or “.wma” cannot be played.
	Check that the finalization process, such as session close and disc close, is done for the disc.
Poor sound quality	Check that the CD is scratched or dirty.
	Check that the CD is protected by copyright.
It takes a relatively long time before the music starts playing.	If there are many folder or file levels on the MP3/WMA CD, or if it is a multi session disc, some time may be required before the music starts playing.
The songs do not play back in the desired order.	The playback order is the order in which the files were written by the software, so the files might not play in the desired order.

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

**NOTE:**

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

#### RELATED TO TELEPHONE

Symptom	Possible cause	Possible solution
The voice on the other side is difficult to be heard. The voice is difficult to reach the other side of the connection.	The interior of the vehicle is too noisy.	Close the windows or have other occupants be quiet.
	The volume of the voice is too low.	Speak louder.
	Pronunciation is unclear.	Speak clearly.

PRECAUTION

PRECAUTIONS  
FOR USA AND CANADA

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

INFOID:000000005255169

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 MEXICO

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

INFOID:000000005255170

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)

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## PRECAUTIONS

< PRECAUTION >

[BOSE AUDIO]

- 
- 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.

# PREPARATION

< PREPARATION >

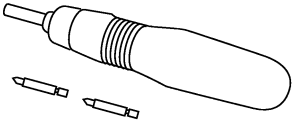
[BOSE AUDIO]

## PREPARATION

### PREPARATION

#### Commercial Service Tools

INFOID:000000005255171

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

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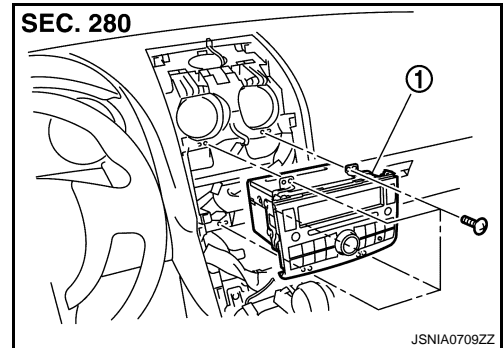
AV

## REMOVAL AND INSTALLATION

### AUDIO UNIT

#### Exploded View

INFOID:000000005255172



1. Audio unit

### Removal and Installation

INFOID:000000005255173

#### REMOVAL

1. Remove cluster lid C and cluster lid D. Refer to [JP-12, "Exploded View"](#).
2. Remove audio unit mounting screws.
3. Pull out audio unit, remove harness clip, and then disconnect antenna feeder and harness connectors.
4. Remove audio unit and bracket as a unit.
5. Remove brackets from audio unit.

#### INSTALLATION

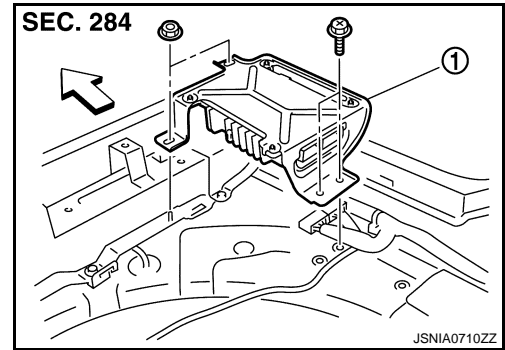
Install in the reverse order of removal.



## BOSE AMP.

### Exploded View

INFOID:000000005255174



- ← Vehicle front
- 1. BOSE amp.

### Removal and Installation

INFOID:000000005255175

#### REMOVAL

1. Remove luggage floor spacer assembly (FR, RH). Refer to [INT-32. "Removal and Installation"](#).
2. Remove BOSE amp.

#### INSTALLATION

Install in the reverse order of removal.

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# TWEETER

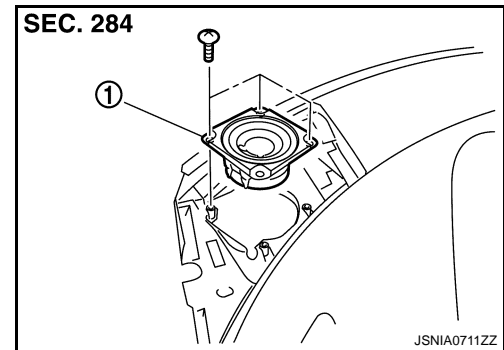
< REMOVAL AND INSTALLATION >

[BOSE AUDIO]

## TWEETER

Exploded View

INFOID:000000005255176



1. Tweeter

## Removal and Installation

INFOID:000000005255177

### REMOVAL

1. Remove instrument panel. Refer to [IP-13, "Removal and Installation"](#).
2. Remove tweeter from instrument panel.

### INSTALLATION

Installation is the reverse order of removal.

# CENTER SPEAKER

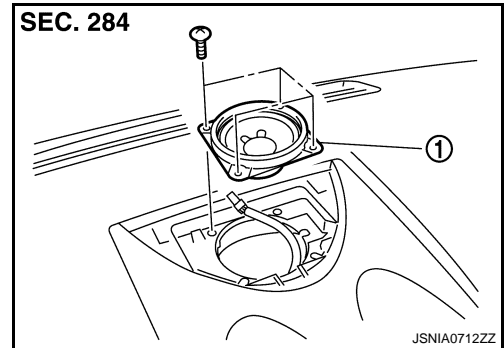
< REMOVAL AND INSTALLATION >

[BOSE AUDIO]

## CENTER SPEAKER

### Exploded View

INFOID:000000005255178



1. Center speaker

### Removal and Installation

INFOID:000000005255179

#### REMOVAL

1. Remove center speaker grille. Refer to [IP-12, "Exploded View"](#).
2. Remove center speaker.

#### INSTALLATION

Installation is the reverse order of removal.

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# FRONT SPEAKER

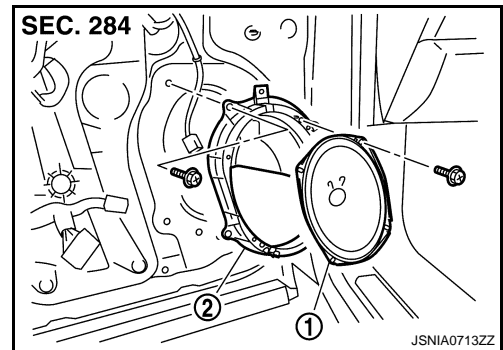
< REMOVAL AND INSTALLATION >

[BOSE AUDIO]

## FRONT SPEAKER

Exploded View

INFOID:000000005255180



1. Front speaker
2. Bracket

## Removal and Installation

INFOID:000000005255181

### REMOVAL

1. Remove front door finisher. Refer to [INT-12, "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove front door speaker from bracket.

### INSTALLATION

Install in the reverse order of removal.

# REAR SPEAKER

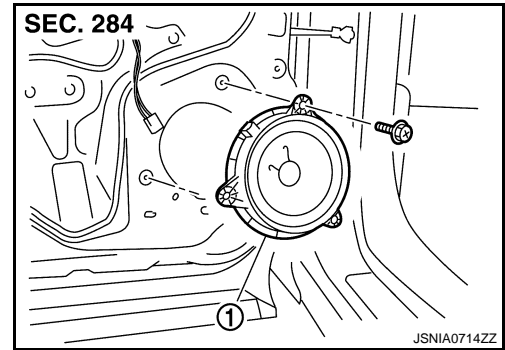
< REMOVAL AND INSTALLATION >

[BOSE AUDIO]

## REAR SPEAKER

### Exploded View

INFOID:000000005255182



1. Rear speaker

### Removal and Installation

INFOID:000000005255183

#### REMOVAL

1. Remove rear door finisher. Refer to [INT-15. "REAR DOOR FINISHER : Removal and Installation"](#).
2. Remove rear speaker.

#### INSTALLATION

Installation is the reverse order of removal.

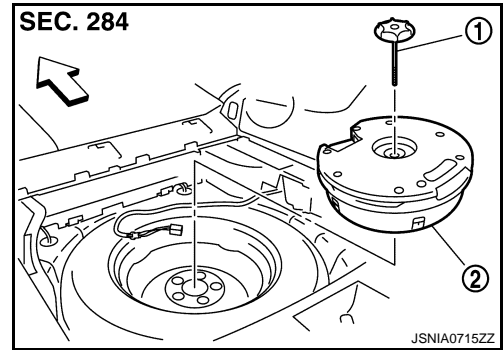
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## WOOFER

### Exploded View

INFOID:000000005255184



- ⇐ Vehicle front
1. Clamp
  2. Woofer

### Removal and Installation

INFOID:000000005255185

#### REMOVAL

1. Remove luggage floor center box. Refer to [INT-32, "Removal and Installation"](#).
2. Remove clamp, and then remove woofer.

#### INSTALLATION

Install in the reverse order of removal.

# SATELLITE RADIO TUNER

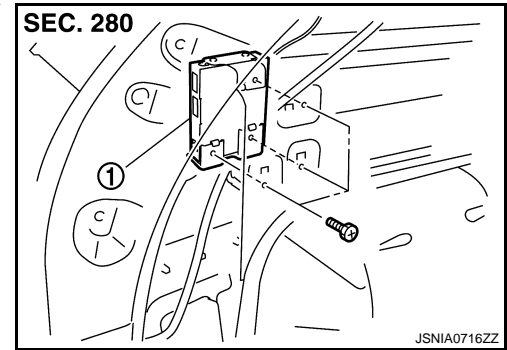
< REMOVAL AND INSTALLATION >

[BOSE AUDIO]

## SATELLITE RADIO TUNER

### Exploded View

INFOID:000000005255186



1. Satellite radio tuner

### Removal and Installation

INFOID:000000005255187

#### REMOVAL

1. Remove luggage side lower finisher (LH). Refer to [INT-32, "Removal and Installation"](#).
2. Remove satellite radio tuner.

#### INSTALLATION

Install in the reverse order of removal.

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# RADIO & SATELLITE RADIO ANTENNA

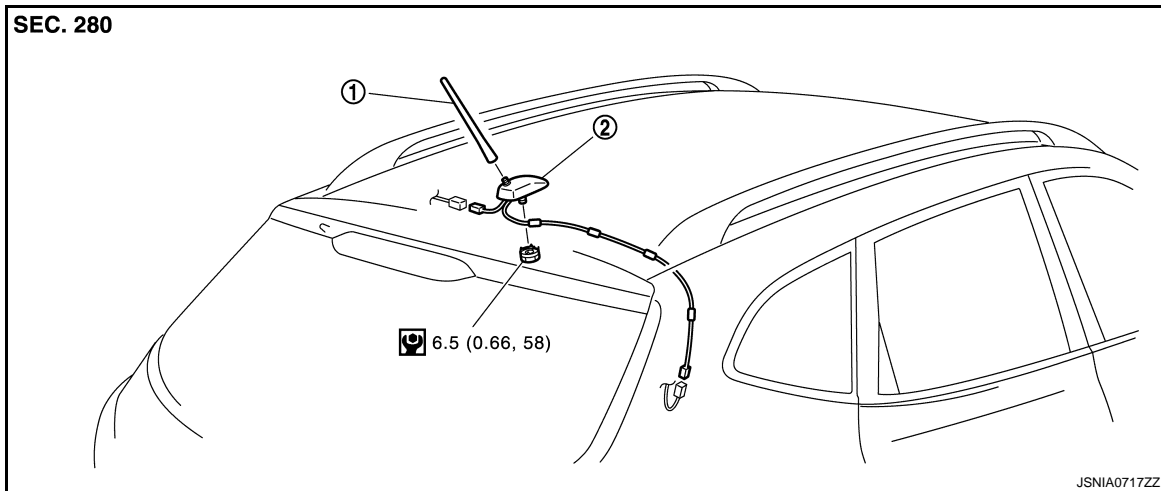
< REMOVAL AND INSTALLATION >

[BOSE AUDIO]

## RADIO & SATELLITE RADIO ANTENNA

### Exploded View

INFOID:000000005255188



1. Antenna rod
2. Antenna base & satellite radio antenna

### Removal and Installation

INFOID:000000005255189

#### REMOVAL

1. Remove headlining assembly. Refer to [INT-24, "NORMAL ROOF : Removal and Installation"](#) (normal roof models) or [INT-27, "SUNROOF : Removal and Installation"](#) (sunroof models).
2. Remove nuts, and then remove radio & satellite radio antenna.

#### INSTALLATION

Installation is the reverse order of removal.

#### **CAUTION:**

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



# STEERING SWITCH

< REMOVAL AND INSTALLATION >

[BOSE AUDIO]

## STEERING SWITCH

### Exploded View

INFOID:000000005255190

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

### Removal and Installation

INFOID:000000005255191

### REMOVAL

Refer to [SR-11, "Removal and Installation"](#).

### INSTALLATION

Installation is the reverse order of removal.

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# MICROPHONE

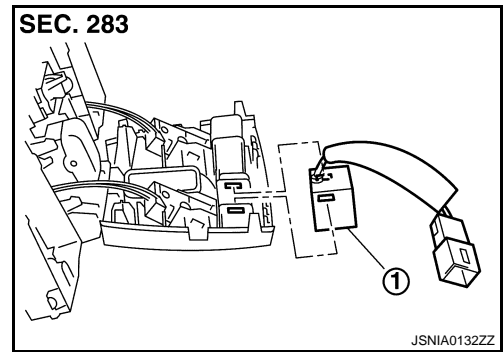
< REMOVAL AND INSTALLATION >

[BOSE AUDIO]

## MICROPHONE

### Exploded View

INFOID:000000005255192



1. Microphone

### Removal and Installation

INFOID:000000005255193

#### REMOVAL

1. Remove map lamp. Refer to [JNL-66. "Removal and Installation"](#).
2. Remove microphone from map lamp.

#### INSTALLATION

Installation is the reverse order of removal.

# TEL ADAPTER UNIT

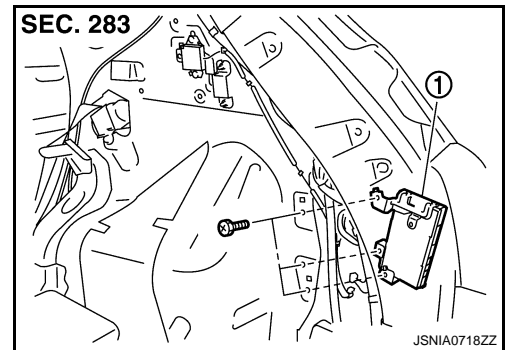
< REMOVAL AND INSTALLATION >

[BOSE AUDIO]

## TEL ADAPTER UNIT

### Exploded View

INFOID:000000005255194



1. TEL adapter unit

### Removal and Installation

INFOID:000000005255195

#### REMOVAL

1. Remove luggage side lower finisher (RH). Refer to [JNT-32, "Removal and Installation"](#).
2. Remove TEL adapter unit.

#### INSTALLATION

Install in the reverse order of removal.

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# TEL ANTENNA

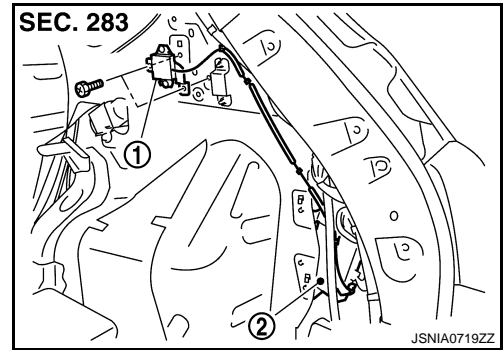
< REMOVAL AND INSTALLATION >

[BOSE AUDIO]

## TEL ANTENNA

### Exploded View

INFOID:000000005255196



1. TEL antenna
2. TEL adapter unit

### Removal and Installation

INFOID:000000005255197

#### REMOVAL

1. Remove luggage side upper finisher (RH). Refer to [INT-32. "Removal and Installation"](#).
2. Remove TEL antenna.

# ANTENNA FEEDER

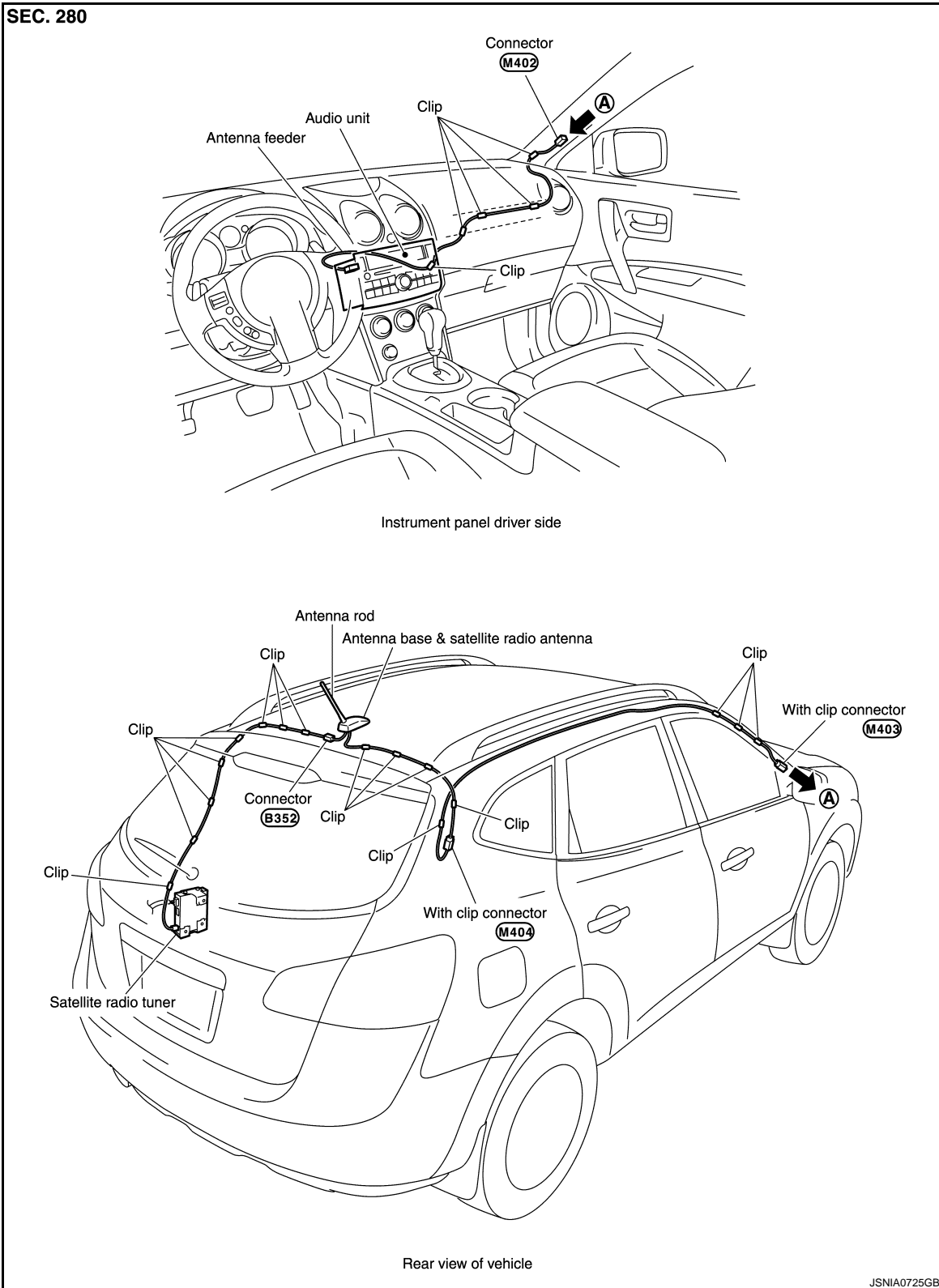
< REMOVAL AND INSTALLATION >

[BOSE AUDIO]

## ANTENNA FEEDER

### Location of Antenna

INFOID:000000005255198



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