

SECTION **AV**

AUDIO, VISUAL & NAVIGATION SYSTEM

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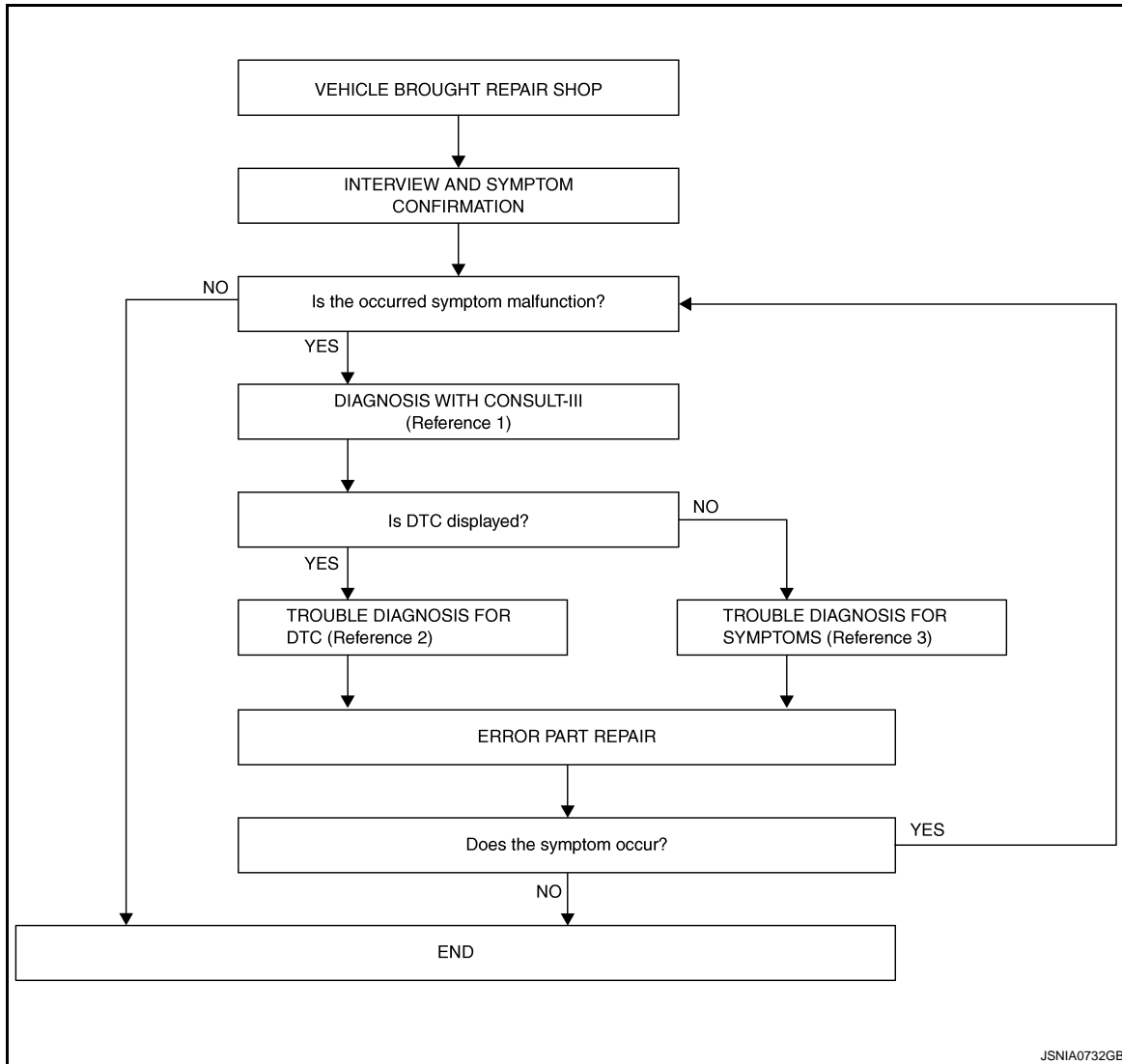
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000001677960

OVERALL SEQUENCE



JSNIA0732GB

- Reference 1... Refer to [AV-26, "CONSULT - III Function \(MULTI AV\)"](#).
- Reference 2... Refer to [AV-76, "DTC Index"](#).
- Reference 3... Refer to [AV-103, "Symptom Table"](#).

DETAILED FLOW

1. INTERVIEW AND SYMPTOM CONFIRMATION

Check the malfunction symptoms by performing the following items.

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

Is the occurred symptom malfunction?

YES >> GO TO 2.

NO >> INSPECTION END

2. DIAGNOSIS WITH CONSULT-III

DIAGNOSIS AND REPAIR WORKFLOW

[BASE AUDIO WITHOUT NAVIGATION]

< BASIC INSPECTION >

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

NOTE:

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

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

Is DTC displayed?

YES >> GO TO 3.

NO >> GO TO 4.

3. TROUBLE DIAGNOSIS FOR DTC

1. Check the DTC indicated in the self-diagnosis results.
2. Perform the relevant diagnosis referring to the DTC Index. Refer to [AV-76, "DTC Index"](#).

>> GO TO 5.

4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to [AV-103, "Symptom Table"](#).

>> GO TO 5.

5. ERROR PART REPAIR

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

NOTE:

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

3. Check that the symptom does not occur.

Does the symptom occur?

YES >> GO TO 1.

NO >> INSPECTION END

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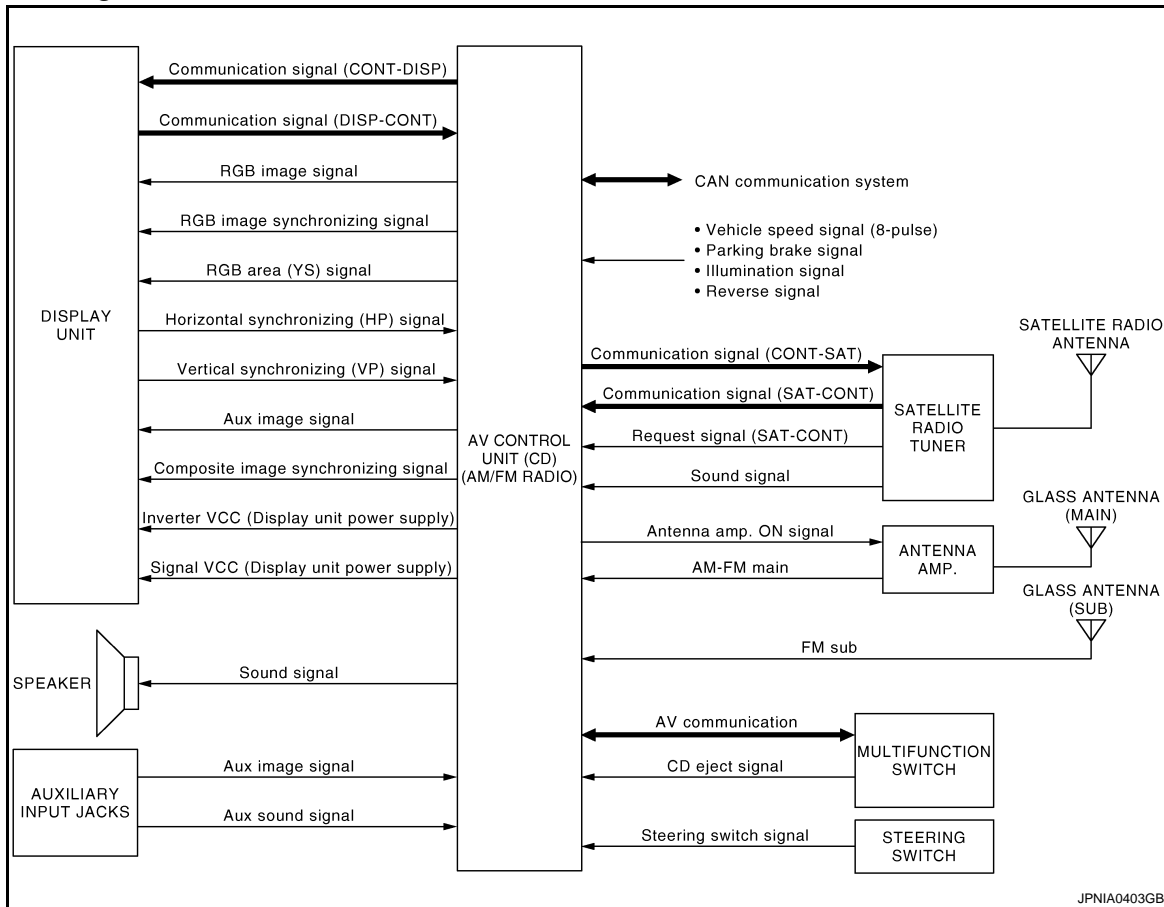
AV

FUNCTION DIAGNOSIS

MULTI AV SYSTEM

System Diagram

INFOID:000000001559117



JPNIA0403GB

NOTE:

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

System Description

INFOID:000000001559118

Multi AV system means that the following systems are integrated.

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

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

MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

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

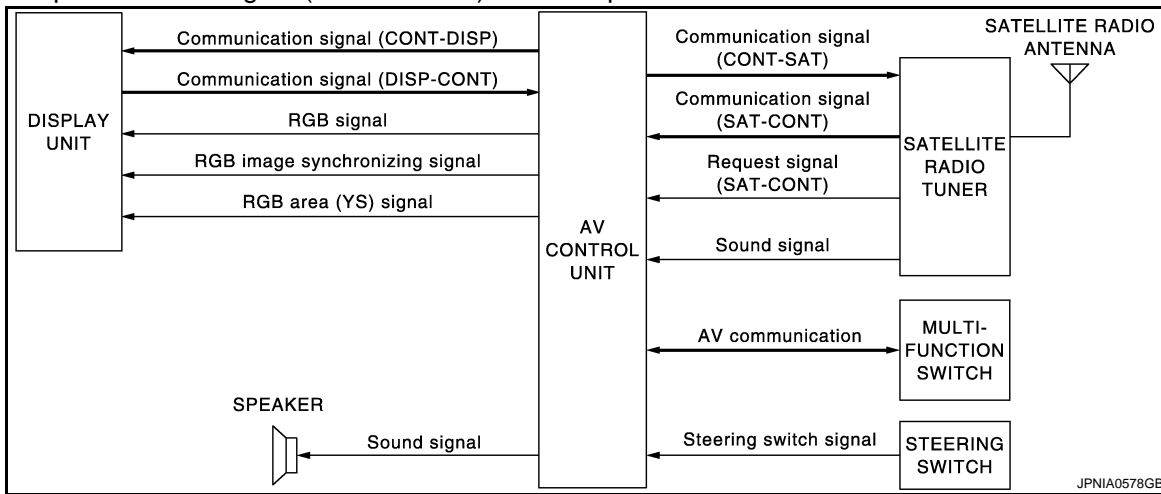
NOTE:

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

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

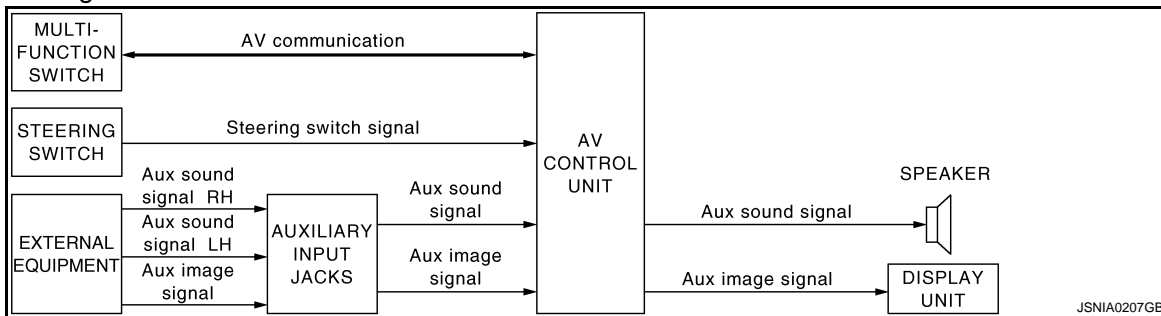
SATELLITE RADIO SYSTEM

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



AUXILIARY INPUT SYSTEM

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



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AV

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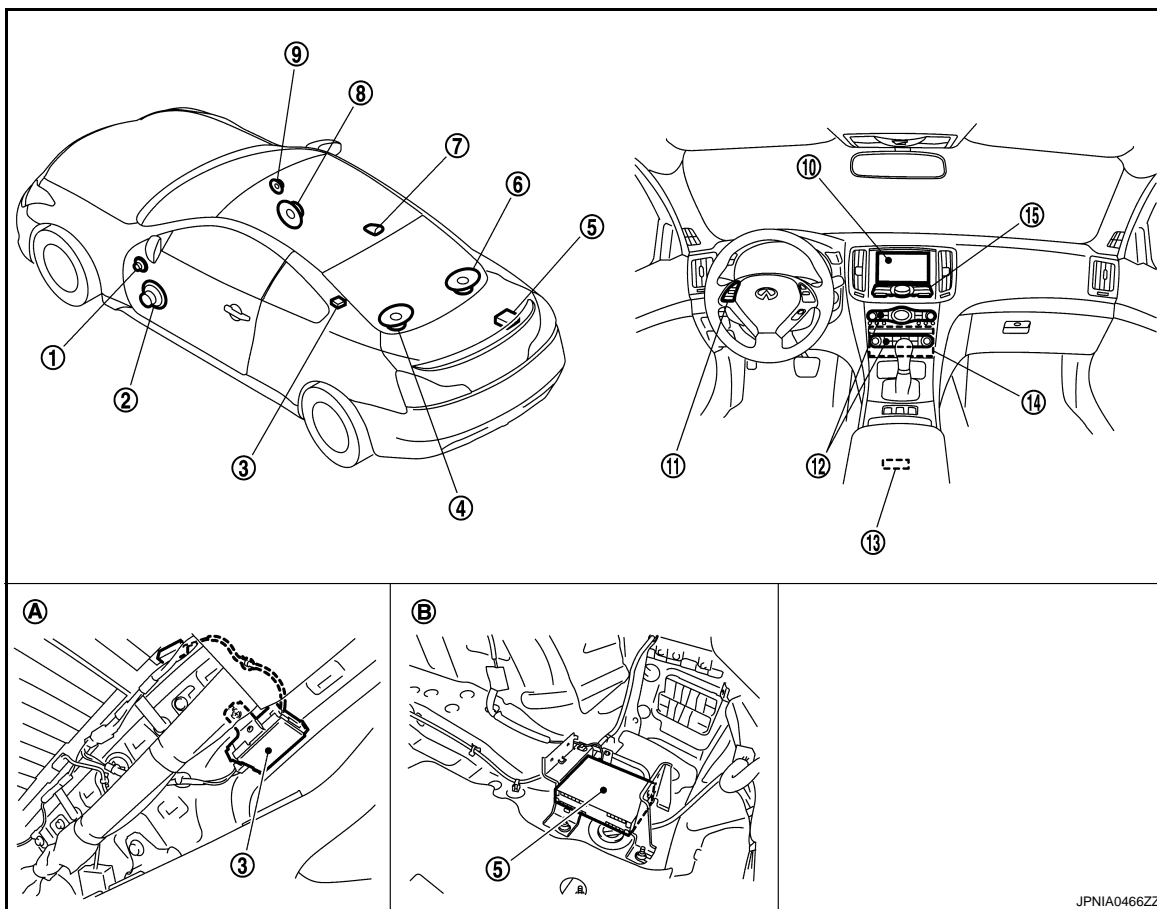
MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Component Parts Location

INFOID:000000001559119



JPNIA0466ZZ

- | | | |
|-----------------------------------|--------------------------|--------------------------|
| 1. Tweeter LH | 2. Door speaker LH | 3. Antenna amp. |
| 4. Rear speaker LH | 5. Satellite radio tuner | 6. Rear speaker RH |
| 7. Satellite radio antenna | 8. Door speaker RH | 9. Tweeter RH |
| 10. Display unit | 11. Steering switch | 12. Preset switch |
| 13. Auxiliary input jacks | 14. AV control unit | 15. Multifunction switch |
| A. Within rear pillar finisher LH | B. Trunk room RH | |

MULTI AV SYSTEM

[BASE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

Component Description

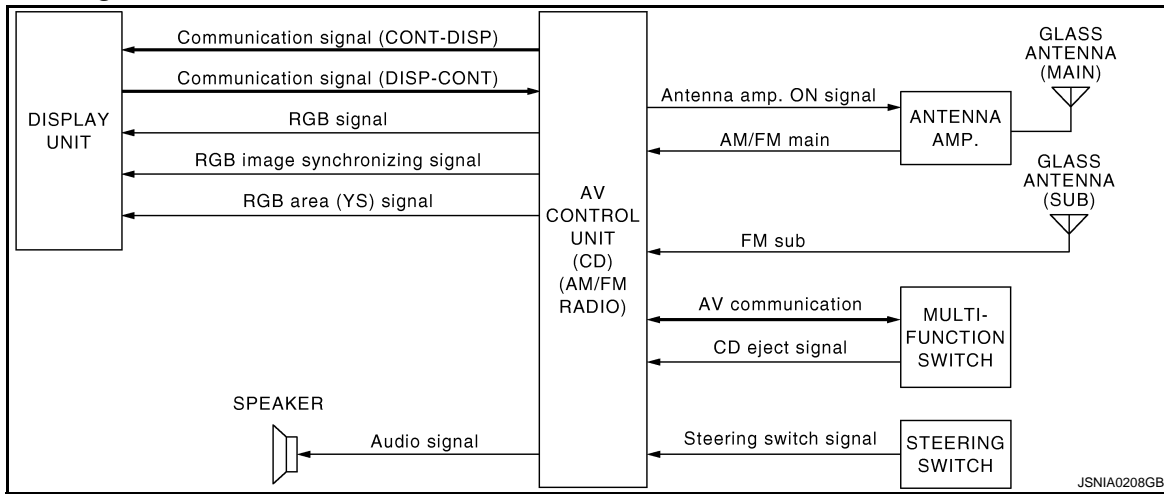
INFOID:000000001559120

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

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AUDIO SYSTEM

System Diagram



System Description

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

Function
AM/FM radio
CD

FUNCTION DESCRIPTION

Operating signal

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

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

Screen display

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

AM/FM Radio Mode

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

CD Mode

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

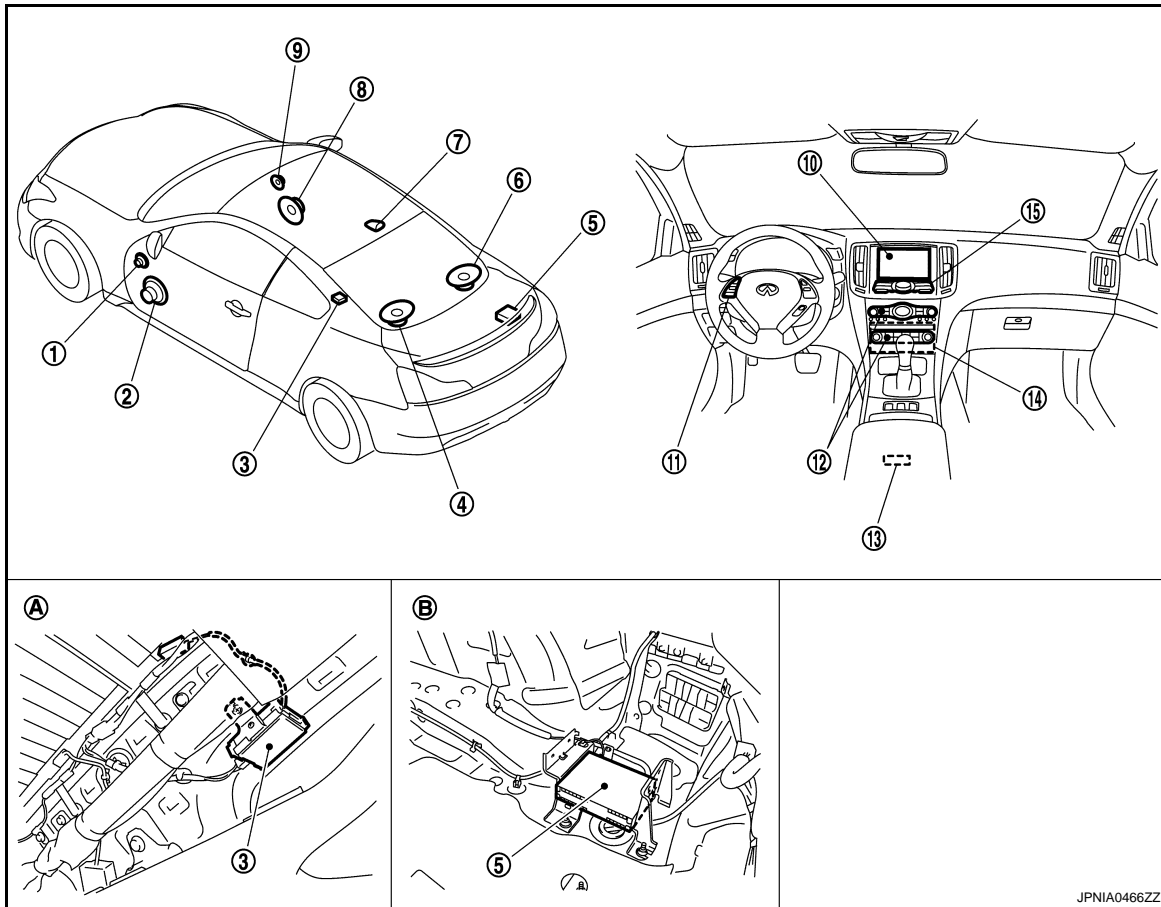
AUDIO SYSTEM

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Component Parts Location

INFOID:000000001685798



- | | | |
|-----------------------------------|--------------------------|--------------------------|
| 1. Tweeter LH | 2. Door speaker LH | 3. Antenna amp. |
| 4. Rear speaker LH | 5. Satellite radio tuner | 6. Rear speaker RH |
| 7. Satellite radio antenna | 8. Door speaker RH | 9. Tweeter RH |
| 10. Display unit | 11. Steering switch | 12. Preset switch |
| 13. Auxiliary input jacks | 14. AV control unit | 15. Multifunction switch |
| A. Within rear pillar finisher LH | B. Trunk room RH | |

Component Description

INFOID:000000001559124

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

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AUDIO SYSTEM

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

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

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

Diagnosis Description

INFOID:000000001559125

MULTIFUNCTION SWITCH AND PRESET SWITCH SELF-DIAGNOSIS FUNCTION

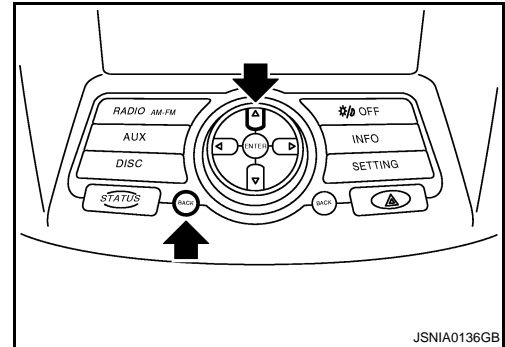
The ON/OFF operation (continuity) of each switch in the multifunction switch and preset switch can be checked.

Self-diagnosis mode

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

CAUTION:

The hazard switch and CD eject switch cannot be checked.



Finishing self-diagnosis mode

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

MULTI AV SYSTEM ON BOARD DIAGNOSIS FUNCTION

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

ON BOARD DIAGNOSIS

Description

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

On board diagnosis item

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

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DIAGNOSIS SYSTEM (AV CONTROL UNIT)

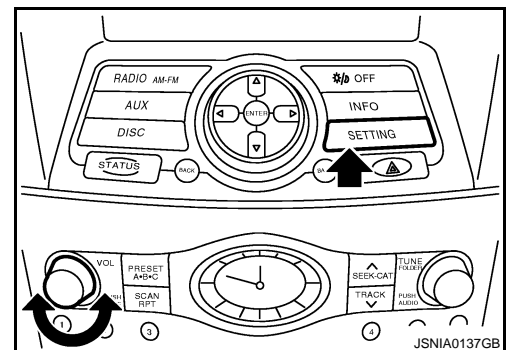
< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

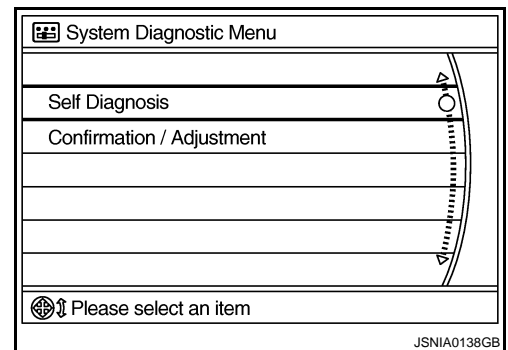
	Mode	Description
Confirmation/ Adjustment	Display Diagnosis	The confirmations of the tint with the color spectrum bar display and shading of color with the gradation bar display can be performed.
	Vehicle Signals	Diagnosis of signals can be performed for vehicle speed, parking brake, lights, ignition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

STARTING PROCEDURE

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

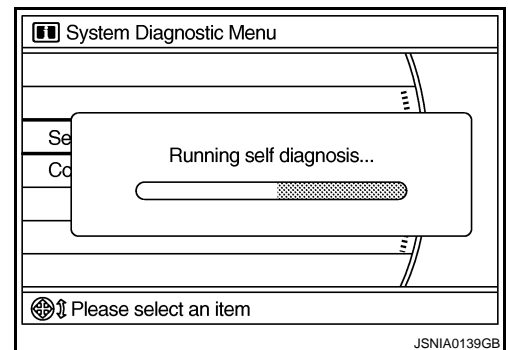


4. The trouble diagnosis initial screen is displayed, and then the items of “Self Diagnosis” and “Confirmation/Adjustment” can be selected.



SELF-DIAGNOSIS MODE

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



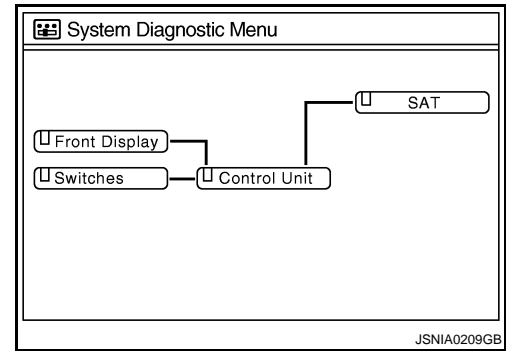
DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BASE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

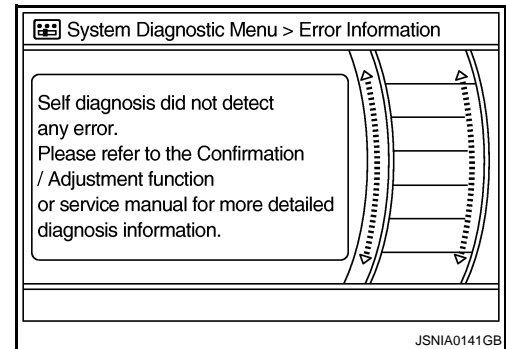
2. Diagnosis results are displayed after the self-diagnosis is completed. The unit names and the connection lines are color-coded according to the diagnostic results.

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



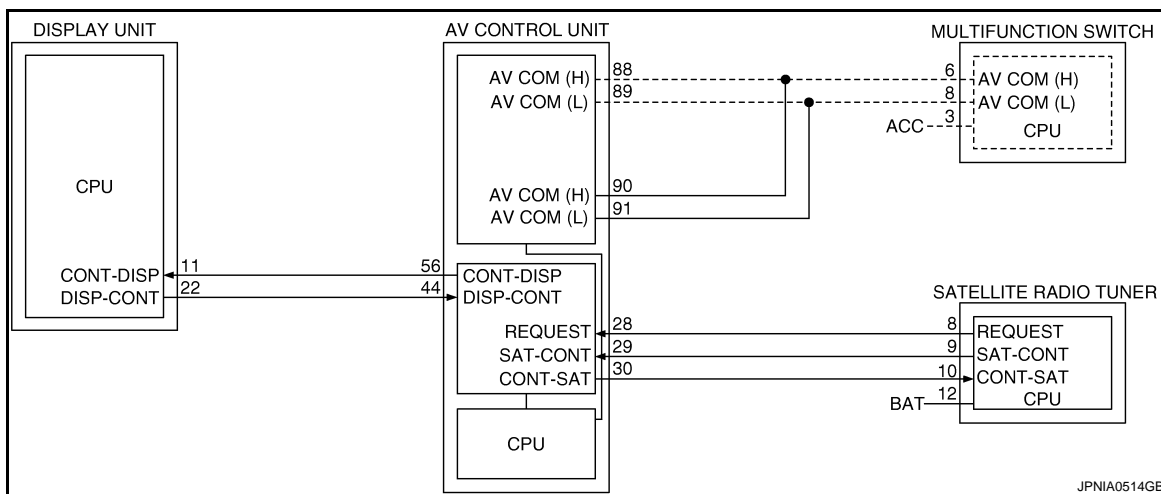
NOTE:

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



Detection range of self-diagnosis mode

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



NOTE:

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

SELF-DIAGNOSIS RESULTS

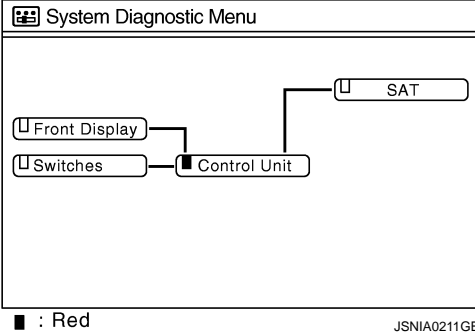
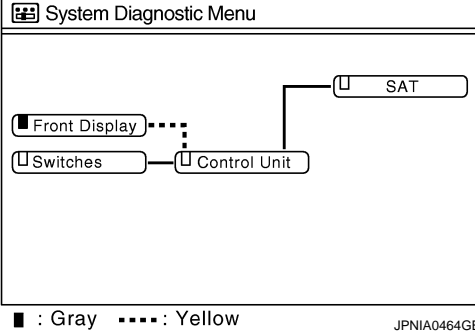
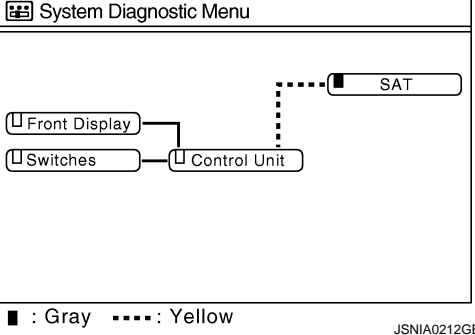
Check the applicable display at the following table, and then repair the malfunctioning parts.

Self-diagnosis result chart

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

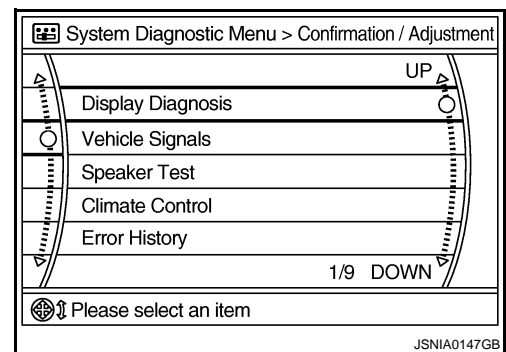
< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

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

CONFIRMATION/ADJUSTMENT MODE

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

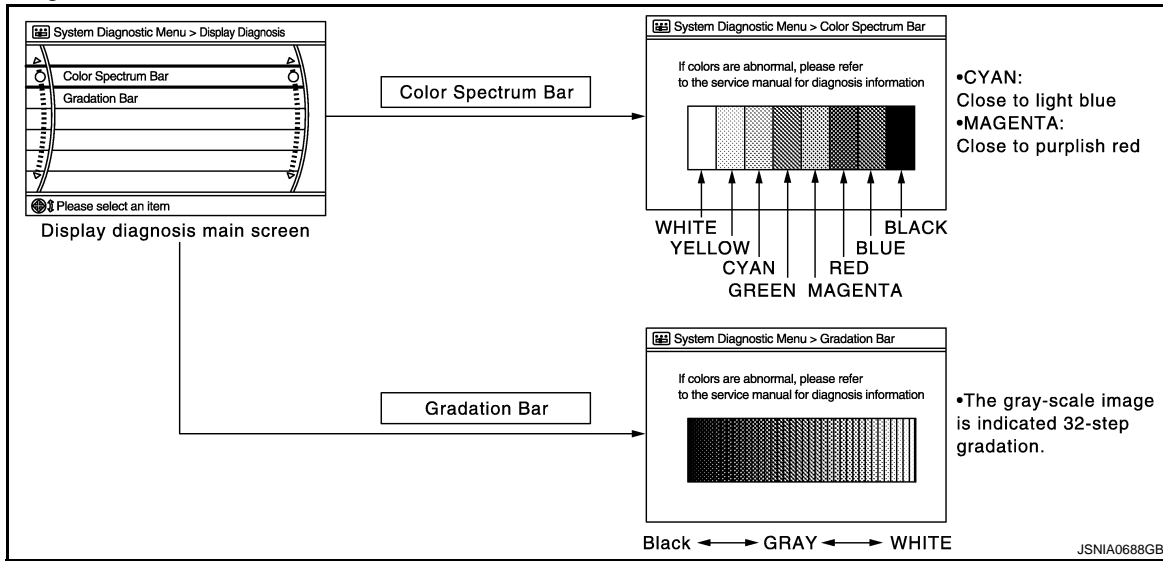


DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Display Diagnosis

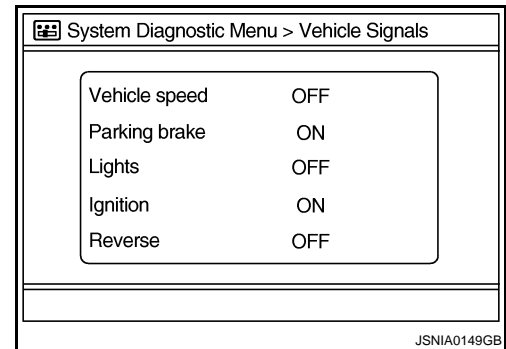


The tint of the color bar indication is as per the following list if RGB signal error is detected.

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

Vehicle Signals

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



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

Speaker Test

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

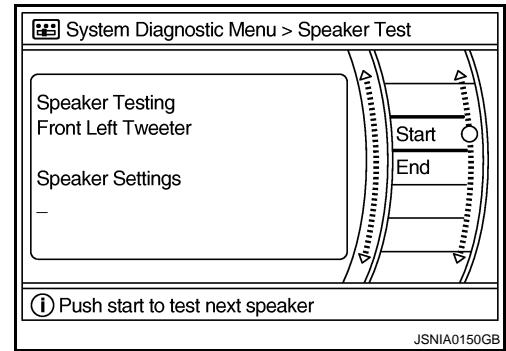
[BASE AUDIO WITHOUT NAVIGATION]

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

NOTE:

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

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



Climate Control

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

Error History

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

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

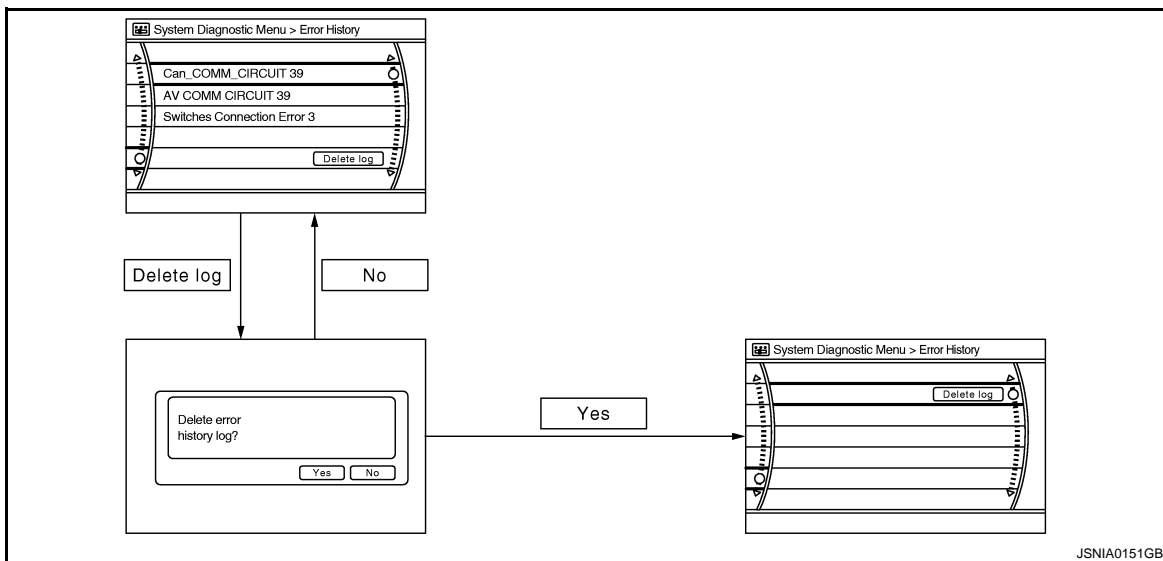
Count up method A

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

Count up method B

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

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



Error item

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

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

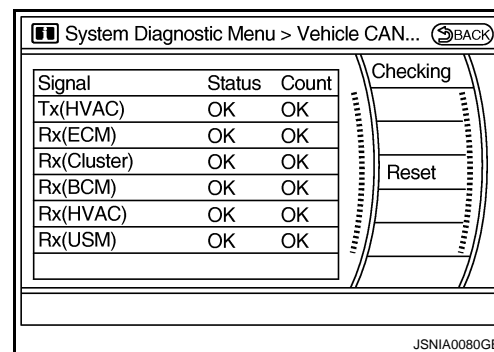
[BASE AUDIO WITHOUT NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
CAN COMM CIRCUIT	CAN communication malfunction is detected.	Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results. Refer to AV-26, "CONSULT - III Function (MULTI AV)" .
CONTROL UNIT (CAN)	CAN initial diagnosis malfunction is detected.	Replace the AV control unit.
CONTROL UNIT (AV)	AV communication circuit initial diagnosis malfunction is detected.	
FLASH-ROM Error Of Control Unit	AV control unit malfunction is detected.	
CAN Controller Memory Error		
Front Display Connection Error	<ul style="list-style-type: none"> Display unit power supply and ground circuit malfunction is detected. Malfunction is detected in communication circuit between AV control unit and display unit. Malfunction is detected in communication signal between AV control unit and display unit. 	<ul style="list-style-type: none"> Display unit power supply and ground circuit. Communication circuit between AV control unit and display unit.
SAT Connection Error	<ul style="list-style-type: none"> Satellite radio tuner power supply and ground circuit malfunction is detected. Malfunction is detected in communication circuit between AV control unit and satellite radio tuner. Malfunction is detected in communication signal between AV control unit and satellite radio tuner. Malfunction is detected in request signal circuit between AV control unit and satellite radio tuner. 	<ul style="list-style-type: none"> Satellite radio tuner power supply and ground circuit. Communication circuit between AV control unit and satellite radio tuner. Request signal circuit between AV control unit and satellite radio tuner.
<ul style="list-style-type: none"> AV COMM CIRCUIT Switches Connection Error 	<ul style="list-style-type: none"> Multifunction switch power supply and ground circuit malfunction is detected. Malfunction is detected in AV communication circuit between AV control unit and multifunction switch. Malfunction is detected in AV communication signal between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> Multifunction switch power supply and ground circuits. AV communication circuit between AV control unit and multifunction switch.

Vehicle CAN Diagnosis

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

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



AV COMM Diagnosis

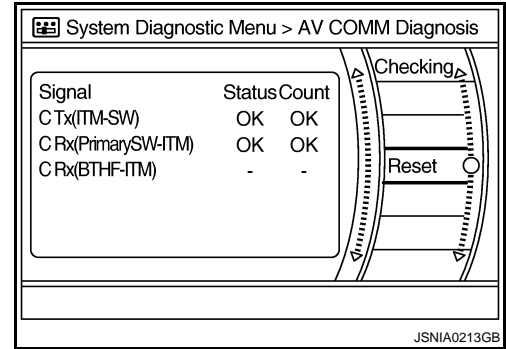
DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BASE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

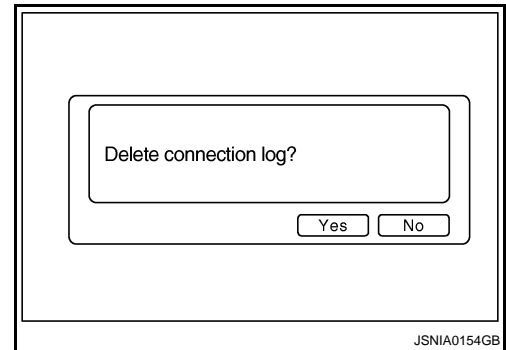
- Displays the communication status between AV control unit (master unit) and each unit.
- The error counter displays “OK” if any malfunction was not detected in the past and displays “0” if a malfunction is detected. It increases by 1 if the condition is normal at the next ignition switch ON cycle.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

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



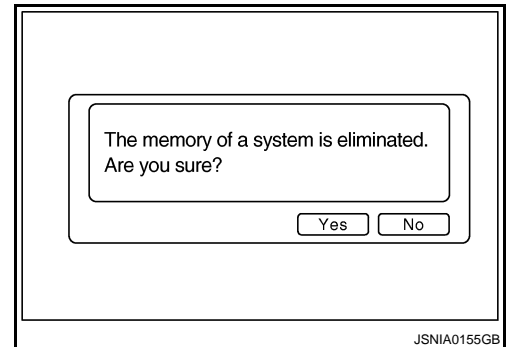
Delete Unit Connection Log

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



Initialize Settings

Initializes the AV control unit memory.



CONSULT - III Function (MULTI AV)

INFOID:000000001559126

CONSULT-III FUNCTIONS

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

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

AV COMMUNICATION

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

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

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BASE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

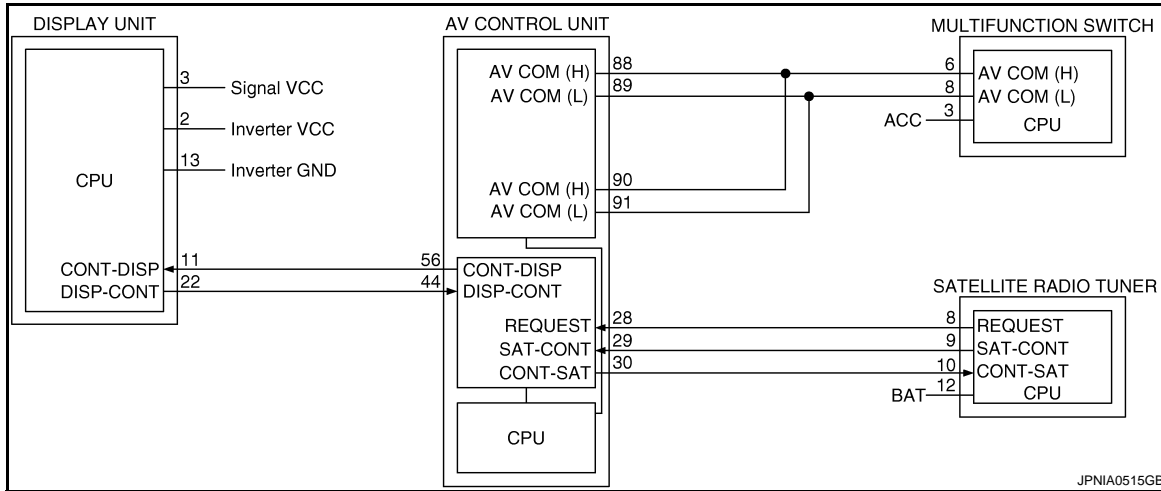
ECU IDENTIFICATION

The part number of AV control unit is displayed.

SELF DIAGNOSIS RESULT

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

Self-diagnosis detection range



Self-diagnosis results display item

Error item	Description	Possible malfunction factor/Action to take
CAN COMM CIRCUIT [U1000]	CAN communication malfunction is detected.	Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results. Refer to AV-26, "CONSULT - III Function (MULTI AV)" .
CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.	Replace the AV control unit.
CONTROL UNIT (AV) [U1310]	AV communication circuit initial diagnosis malfunction is detected.	
Control Unit FLASH-ROM [U1200] CAN CONT [U1216]	AV control unit malfunction is detected.	
FRONT DISP CONN [U1243]	<ul style="list-style-type: none"> • Display unit power supply and ground circuit malfunction is detected. • Malfunction is detected in communication circuit between AV control unit and display unit. • Malfunction is detected in communication signal between AV control unit and display unit. 	<ul style="list-style-type: none"> • Display unit power supply and ground circuit. • Communication circuit between AV control unit and display unit.

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

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

DATA MONITOR

ALL SIGNALS

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

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

SELECTION FROM MENU

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

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

U1000 CAN COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:000000001684419

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

CAN Communication Signal Chart. Refer to [LAN-25, "CAN System Specification Chart"](#).

DTC Logic

INFOID:000000001684420

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:000000001684421

1. PERFORM SELF-DIAGNOSTIC

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

Is "CAN COMM CIRCUIT" displayed?

- YES >> Refer to "LAN system". Refer to [LAN-16, "Trouble Diagnosis Flow Chart"](#).
NO >> Refer to GI section. Refer to [GI-38, "Intermittent Incident"](#).

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AV

U1010 CONTROL UNIT (CAN)

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

U1010 CONTROL UNIT (CAN)

Description

INFOID:000000001684422

Initial diagnosis of AV control unit.

DTC Logic

INFOID:000000001684423

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:000000001684424

1. REPLACE AV CONTROL UNIT

When DTC U1010 is detected, replace AV control unit.

>> INSPECTION END

U1310 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

U1310 AV CONTROL UNIT

Description

INFOID:000000001684425

Replace the AV control unit if this DTC is displayed. Refer to [AV-109, "Exploded View"](#).

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

DTC Logic

INFOID:000000001684426

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

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AV

U1200 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

U1200 AV CONTROL UNIT

Description

INFOID:000000001684427

Replace the AV control unit if this DTC is displayed. Refer to [AV-109, "Exploded View"](#).

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

DTC Logic

INFOID:000000001684428

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

U1216 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

U1216 AV CONTROL UNIT

Description

INFOID:000000001684429

Replace the AV control unit if this DTC is displayed. Refer to [AV-109, "Exploded View"](#).

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

DTC Logic

INFOID:000000001684430

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

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AV

U1243 DISPLAY UNIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

U1243 DISPLAY UNIT

Description

INFOID:000000001689654

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

DTC Logic

INFOID:000000001689655

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

Diagnosis Procedure

INFOID:000000001689656

1. CHECK DISPLAY UNIT POWER SUPPLY AND GROUND CIRCUIT

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

Is the inspection result normal?

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

2. CHECK CONTINUITY COMMUNICATION CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminals 11, 22 and AV control unit harness connector terminals 56, 44.

11 - 56 : Continuity should exist.

22 - 44 : Continuity should exist.

4. Check continuity between display unit harness connector terminals 11, 22 and ground.

11, 22 - Ground : Continuity should not exist.

Is the inspection result normal?

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

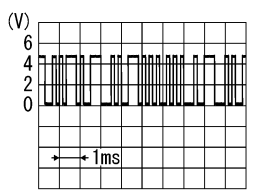
3. CHECK COMMUNICATION SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 11 and ground.

U1243 DISPLAY UNIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Terminal	Condition		Reference value
11 - Ground	Ignition switch ON	When adjusting display brightness.	 <p>PKIB5039J</p>

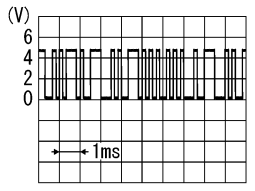
Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

4.CHECK COMMUNICATION SIGNAL

Check signal between display unit harness connector terminal 22 and ground.

Terminal	Condition		Reference value
22 - Ground	Ignition switch ON	When adjusting display brightness.	 <p>PKIB5039J</p>

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace display unit.

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U1255 SATELLITE RADIO TUNER

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

U1255 SATELLITE RADIO TUNER

Description

INFOID:000000001689657

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

DTC Logic

INFOID:000000001689658

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

Diagnosis Procedure

INFOID:000000001689659

1. CHECK SATELLITE RADIO TUNER POWER SUPPLY AND GROUND CIRCUIT

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

Is the inspection result normal?

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

2. CHECK CONTINUITY COMMUNICATION CIRCUIT AND REQUEST SIGNAL CIRCUIT

- Turn ignition switch OFF.
- Disconnect AV control unit connector and satellite radio tuner connector.
- Check continuity between AV control unit harness connector terminals 28, 29, 30 and satellite radio tuner harness connector terminals 8, 9, 10.

28 - 8 : Continuity should exist.

29 - 9 : Continuity should exist.

30 - 10 : Continuity should exist.

- Check continuity between AV control unit harness connector terminals 28, 29 and 30.

28 - Ground : Continuity should not exist.

29 - Ground : Continuity should not exist.

30 - Ground : Continuity should not exist.

Is the inspection result normal?

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

3. CHECK AV CONTROL UNIT VOLTAGE

- Connect AV control unit connector.
- Turn ignition switch ON.
- Check voltage between AV control unit harness connector terminal 28, 29 and ground.

U1255 SATELLITE RADIO TUNER

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

28 - Ground : Approx 7.5 V

29 - Ground : Approx 7.0 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

4.CHECK SATELLITE RADIO TUNER

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector.
3. Connect satellite radio tuner.
4. Turn ignition switch ON.
5. Check voltage between satellite radio tuner harness connector terminal 10 and ground.

10 - Ground : Approx 7.0 V

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace satellite radio tuner.

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AV

U1300 AV COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

U1300 AV COMM CIRCUIT

Description

INFOID:000000001559145

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

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

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

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

POWER SUPPLY AND GROUND CIRCUIT

AV CONTROL UNIT

AV CONTROL UNIT : Diagnosis Procedure

INFOID:000000001559146

1.CHECK FUSE

Check for blown fuses.

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

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between AV control unit harness connectors and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	M81	19	OFF	12 V
ACC power supply	M81	7	ACC	12 V
Ignition signal	M85	104	ON	12 V

Is the inspection result normal?

YES >> GO TO 3.

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

3.CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	M81	8	OFF	Existed
	M81	20		
	M85	85		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

DISPLAY UNIT

DISPLAY UNIT : Diagnosis Procedure

INFOID:000000001689651

1.CHECK POWER SUPPLY CIRCUIT (DISPLAY SIDE)

Check voltage between display unit harness connector and ground.

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

2.CHECK POWER SUPPLY CIRCUIT (CONTINUITY)

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

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

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

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

Is the inspection result normal?

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

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

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

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

Is the inspection result normal?

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

4.CHECK GROUND CIRCUIT

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

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

Is the inspection result normal?

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

MULTIFUNCTION SWITCH

MULTIFUNCTION SWITCH : Diagnosis Procedure

INFOID:000000001689652

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Ignition switch ACC or ON	19

Is the inspection result normal?

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

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between multifunction switch harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
ACC power supply	M72	3	ACC	12 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between multifunction switch and fuse.

3.CHECK GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

SATELLITE RADIO TUNER

SATELLITE RADIO TUNER : Diagnosis Procedure

INFOID:000000001689653

1.CHECK FUSE

Check for blown fuses.

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

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between satellite radio tuner harness connector and ground.

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

Is the inspection result normal?

YES >> GO TO 3.

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

3.CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B236	15	OFF	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

RGB (R: RED) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

RGB (R: RED) SIGNAL CIRCUIT

Description

INFOID:000000001689661

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

Diagnosis Procedure

INFOID:000000001689662

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

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 17 and AV control unit harness connector terminal 40.

17 - 40 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 17 and ground.

17 - Ground : Continuity should not exist.

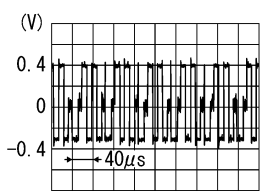
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK RGB (R: RED) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 17 and ground.

Terminal	Condition	Reference value
17 - Ground	Ignition switch ON Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 SKIB2238J

Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

RGB (G: GREEN) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

RGB (G: GREEN) SIGNAL CIRCUIT

Description

INFOID:000000001689663

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

Diagnosis Procedure

INFOID:000000001689664

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

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 6 and AV control unit harness connector terminal 39.

6 - 39 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 6 and ground.

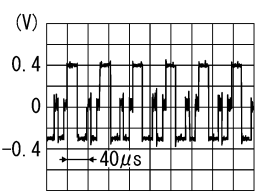
6 - Ground : Continuity should not exist.

Is the inspection result normal?

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

2. CHECK RGB (G: GREEN) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 6 and ground.

Terminal	Condition		Reference value
6 - Ground	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 <p>SKIB2236J</p>

Is the inspection result normal?

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

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RGB (B: BLUE) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

RGB (B: BLUE) SIGNAL CIRCUIT

Description

INFOID:000000001689665

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

Diagnosis Procedure

INFOID:000000001689666

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

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 18 and AV control unit harness connector terminal 38.

18 - 38 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 18 and ground.

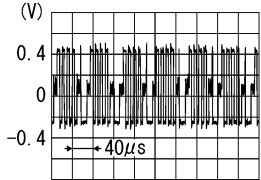
18 - Ground : Continuity should not exist.

Is the inspection result normal?

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

2. CHECK RGB (B: BLUE) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 18 and ground.

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

Is the inspection result normal?

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

RGB SYNCHRONIZING SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

RGB SYNCHRONIZING SIGNAL CIRCUIT

Description

INFOID:000000001689667

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

Diagnosis Procedure

INFOID:000000001689669

1. CHECK CONTINUITY RGB SYNCHRONIZING SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 19 and AV control unit harness connector terminal 41.

19 - 41 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 19 and ground.

19 - Ground : Continuity should not exist.

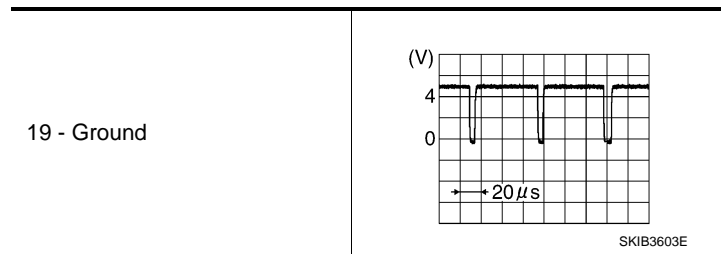
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK RGB SYNCHRONIZING SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 19 and ground.



Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

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AV

RGB AREA (YS) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

RGB AREA (YS) SIGNAL CIRCUIT

Description

INFOID:000000001689672

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

Diagnosis Procedure

INFOID:000000001689671

1. CHECK CONTINUITY RGB AREA (YS) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 9 and AV control unit harness connector terminal 43.

9 - 43 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 9 and ground.

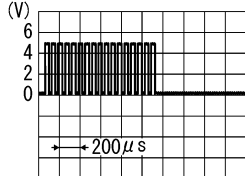
9 - Ground : Continuity should not exist.

Is the inspection result normal?

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

2. CHECK RGB AREA (YS) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 9 and ground.

Terminal	Condition		Reference value
9 - Ground	Ignition switch ON	At RGB image is displayed	: Approx. 5 V
		At AUX image is displayed	 <p style="text-align: right; font-size: small;">PKIB4948J</p>

Is the inspection result normal?

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

HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

Description

INFOID:000000001689673

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

Diagnosis Procedure

INFOID:000000001689674

1. CHECK CONTINUITY HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 8 and AV control unit harness connector terminal 45.

8 - 45 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 8 and ground.

8 - Ground : Continuity should not exist.

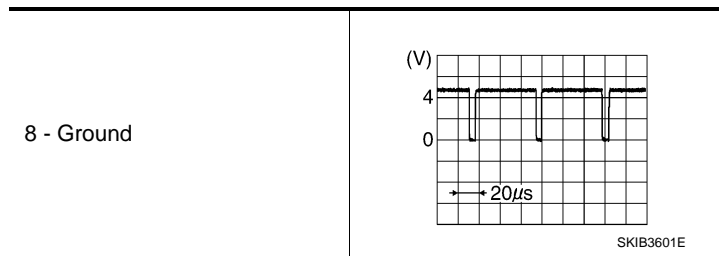
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK HORIZONTAL SYNCHRONIZING (HP) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 8 and ground.



Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace display unit.

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AV

VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

Description

INFOID:000000001689675

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

Diagnosis Procedure

INFOID:000000001689676

1. CHECK CONTINUITY VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 20 and AV control unit harness connector terminal 57.

20 - 57 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 20 and ground.

20 - Ground : Continuity should not exist.

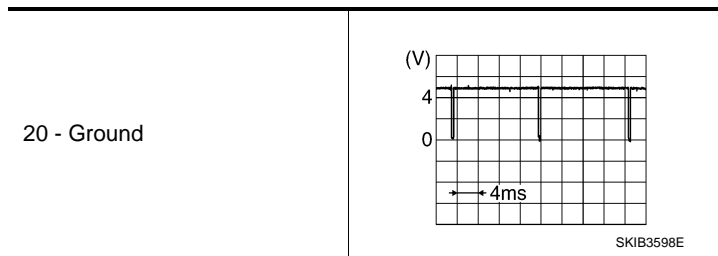
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK VERTICAL SYNCHRONIZING (VP) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 20 and ground.



Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace display unit.

AUX IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

AUX IMAGE SIGNAL CIRCUIT

Description

INFOID:000000001689679

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

Diagnosis Procedure

INFOID:000000001689678

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

1. Turn ignition switch OFF.
2. Disconnect auxiliary input jacks connector and AV control unit connector.
3. Check continuity between auxiliary input jacks harness connector terminal 7 and AV control unit harness connector terminal 66.

7 - 66 : Continuity should exist.

4. Check continuity between auxiliary input jacks harness connector terminal 7 and ground.

7 - Ground : Continuity should not exist.

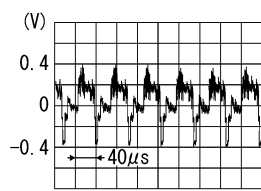
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

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

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between auxiliary input jacks harness connector terminal 7 and ground.

Terminal	Condition	Reference value
7 - Ground	Ignition switch ON At AUX image is displayed.	 SKIB2251J

Is the inspection result normal?

YES >> GO TO 3.

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

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

1. Turn ignition switch OFF.
2. Disconnect auxiliary input jacks connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 15 and AV control unit harness connector terminal 36.

15 - 36 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 15 and ground.

15 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

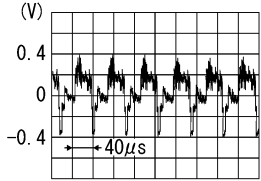
4. CHECK AUX IMAGE SIGNAL

AUX IMAGE SIGNAL CIRCUIT

[BASE AUDIO WITHOUT NAVIGATION]

< COMPONENT DIAGNOSIS >

1. Connect AV control unit connector and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 15 and ground.

Terminal	Condition		Reference value
15 - Ground	Ignition switch ON	At AUX image is displayed.	 SKIB2251J

Is the inspection result normal?

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

CD EJECT SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

CD EJECT SIGNAL CIRCUIT

Description

INFOID:000000001689680

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

Diagnosis Procedure

INFOID:000000001689681

1. CHECK CONTINUITY CD EJECT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect multifunction switch connector and AV control unit connector.
3. Check continuity between multifunction switch harness connector terminal 14 and AV control unit harness connector terminal 103.

14 - 103 : Continuity should exist.

4. Check continuity between multifunction switch harness connector terminal 14 and ground.

14 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK AV CONTROL UNIT VOLTAGE

1. Connect multifunction switch connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector terminal 103 and ground.

**103 - Ground Except for above
: Approx. 3.3 V**

Is the inspection result normal?

YES >> Replace preset switch.

NO >> Replace AV control unit.

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AV

COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)

Description

INFOID:000000001689682

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

Diagnosis Procedure

INFOID:000000001689683

1. CHECK CONTINUITY COMMUNICATION SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect satellite radio tuner connector and AV control unit connector.
3. Check continuity between satellite radio tuner harness connector terminals 9, 10 and AV control unit harness connector terminals 29, 30.

9 - 29 : Continuity should exist.

10 - 30 : Continuity should exist.

4. Check continuity between satellite radio tuner harness connector terminals 9, 10 and ground.

9, 10 - Ground : Continuity should not exist.

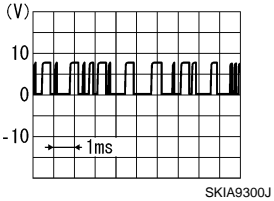
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK COMMUNICATION SIGNAL

1. Connect satellite radio tuner connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between satellite radio tuner harness connector terminal 9 and ground.

Terminal	Condition		Reference value
9 - Ground	Ignition switch ON	When satellite radio mode is selected.	

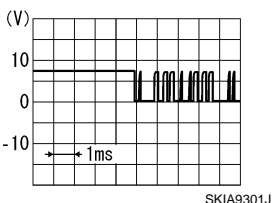
Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace satellite radio tuner.

3. CHECK COMMUNICATION SIGNAL

Check signal between satellite radio tuner harness connector terminal 10 and ground.

Terminal	Condition		Reference value
10 - Ground	Ignition switch ON	When satellite radio mode is selected.	

Is the inspection result normal?

YES >> Replace satellite radio tuner.

COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

NO >> Replace AV control unit.

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- AV**
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REQUEST SIGNAL CIRCUIT (SAT→CONT)

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

REQUEST SIGNAL CIRCUIT (SAT→CONT)

Description

INFOID:000000001689684

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

Diagnosis Procedure

INFOID:000000001689685

1. CHECK CONTINUITY REQUEST SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect satellite radio tuner connector and AV control unit connector.
3. Check continuity between satellite radio tuner unit harness connector terminal 8 and AV control unit harness connector terminal 28.

8 - 28 : Continuity should exist.

4. Check continuity between satellite radio tuner harness connector terminal 8 and ground.

8 - Ground : Continuity should not exist.

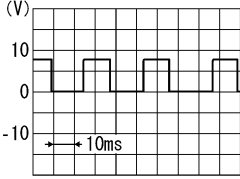
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK COMMUNICATION SIGNAL

1. Connect satellite radio tuner connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between satellite radio tuner harness connector terminal 8 and ground.

Terminal	Condition		Reference value
8 - Ground	Ignition switch ON	When satellite radio mode is selected.	

Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace satellite radio tuner.

STEERING SWITCH SIGNAL A CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

STEERING SWITCH SIGNAL A CIRCUIT

Description

INFOID:000000001559172

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:000000001559173

1. CHECK STEERING SWITCH SIGNAL A CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector terminal 6 and spiral cable harness connector terminal 24.

6 - 24 : Continuity should exist.

3. Check continuity between AV control unit harness connector terminals 6 and ground.

6 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace spiral cable.

3. CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector and spiral cable connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector terminals 6 and 15.

6 - 15 : Approx. 3.3 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

4. CHECK STEERING SWITCH

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

Component Inspection

INFOID:000000001559174

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

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STEERING SWITCH SIGNAL A CIRCUIT

[BASE AUDIO WITHOUT NAVIGATION]

< COMPONENT DIAGNOSIS >

Standard

Between terminals 14 and 17

MENU DOWN switch ON : 318 – 324 Ω

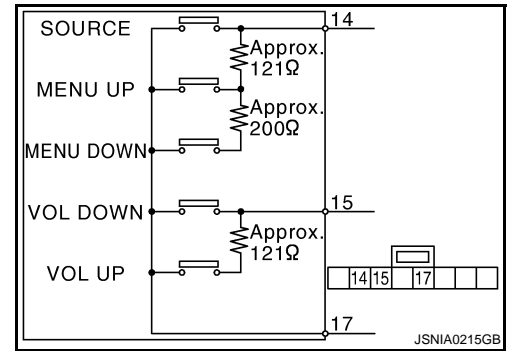
MENU UP switch ON : 120 – 122 Ω

SOURCE switch ON : 0 Ω

Between terminals 15 and 17

VOL UP switch ON : 120 – 122Ω

VOL DOWN switch ON : 0 Ω



STEERING SWITCH SIGNAL B CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

STEERING SWITCH SIGNAL B CIRCUIT

Description

INFOID:000000001559175

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:000000001559176

1. CHECK STEERING SWITCH SIGNAL B CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector terminal 16 and spiral cable harness connector terminal 31.

16 - 31 : Continuity should exist.

3. Check continuity between AV control unit harness connector terminals 16 and ground.

16 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace spiral cable.

3. CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector and spiral cable connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector terminals 16 and 15.

16 - 15 : Approx. 3.3 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

4. CHECK STEERING SWITCH

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

Component Inspection

INFOID:000000001559177

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

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STEERING SWITCH SIGNAL B CIRCUIT

[BASE AUDIO WITHOUT NAVIGATION]

< COMPONENT DIAGNOSIS >

Standard

Between terminals 14 and 17

MENU DOWN switch ON : 318 – 324 Ω

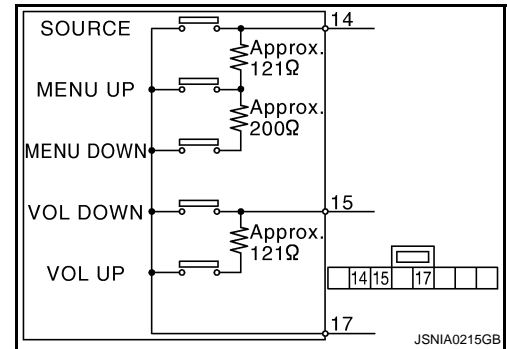
MENU UP switch ON : 120 – 122 Ω

SOURCE switch ON : 0 Ω

Between terminals 15 and 17

VOL UP switch ON : 120 – 122 Ω

VOL DOWN switch ON : 0 Ω



STEERING SWITCH SIGNAL GND CIRCUIT

< COMPONENT DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

STEERING SWITCH SIGNAL GND CIRCUIT

Description

INFOID:000000001559178

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:000000001559179

1. CHECK STEERING SWITCH SIGNAL GND CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector terminal 15 and spiral cable harness connector terminal 33.

15 - 33 : Continuity should exist.

3. Connect AV control unit connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace spiral cable.

3. CHECK GROUND CIRCUIT

1. Connect AV control unit connector.
2. Check continuity between AV control unit harness connector terminal 15 and ground.

15 - Ground : Continuity should exist.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

4. CHECK STEERING SWITCH

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

Component Inspection

INFOID:000000001559180

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

Standard

Between terminals 14 and 17

MENU DOWN switch ON : 318 – 324 Ω

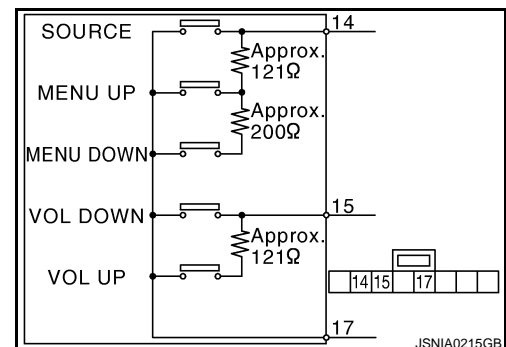
MENU UP switch ON : 120 – 122 Ω

SOURCE switch ON : 0 Ω

Between terminals 15 and 17

VOL UP switch ON : 120 – 122 Ω

VOL DOWN switch ON : 0 Ω



AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

ECU DIAGNOSIS

AV CONTROL UNIT

Reference Value

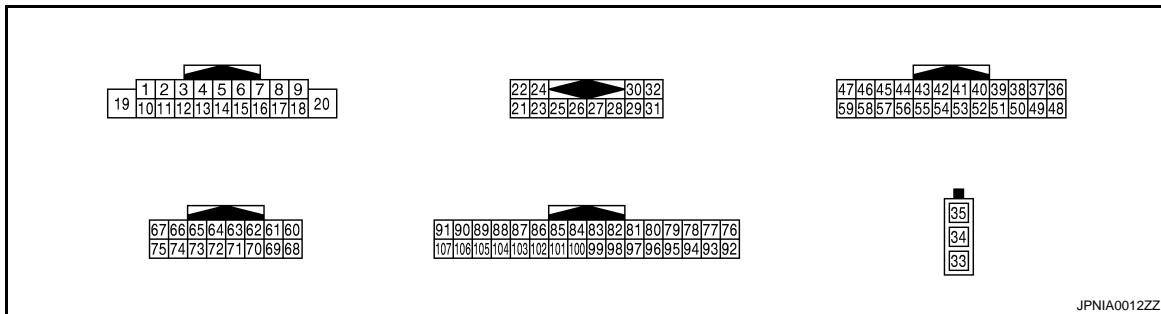
INFOID:000000001559182

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

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

TERMINAL LAYOUT



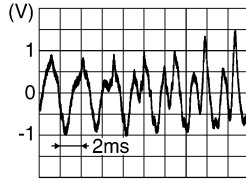
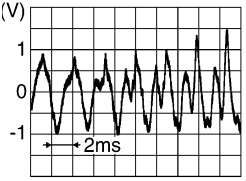
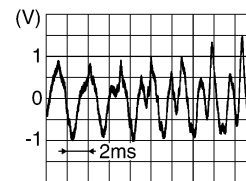
PHYSICAL VALUES

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

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

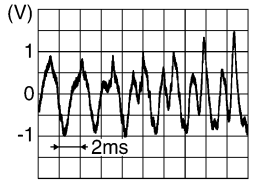
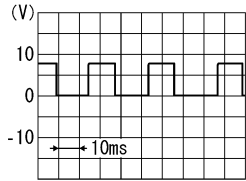
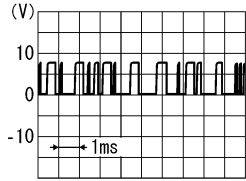
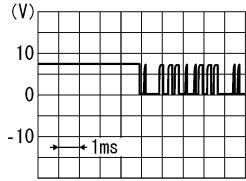
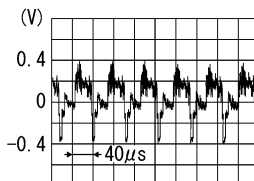
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
6 (G)	15 (B)	Steering switch signal A	Input	Ignition switch ON	Keep pressing SOURCE switch.	0 V
					Keep pressing Δ switch.	0.7 V
					Keep pressing ∇ switch.	1.3 V
					Except for above.	3.3 V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

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AV CONTROL UNIT

< ECU DIAGNOSIS >

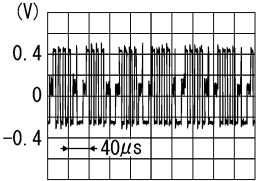
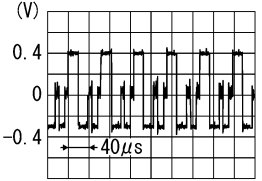
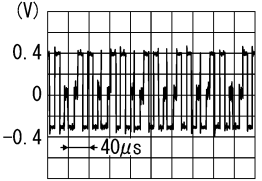
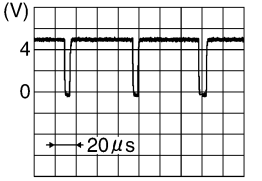
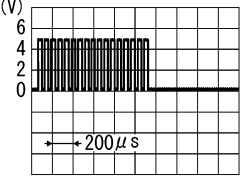
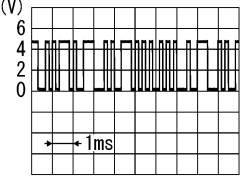
[BASE AUDIO WITHOUT NAVIGATION]

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

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

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

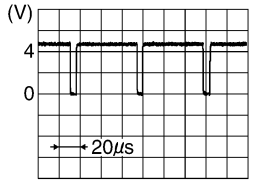
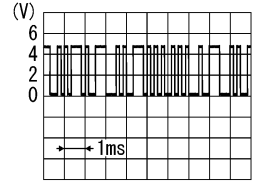
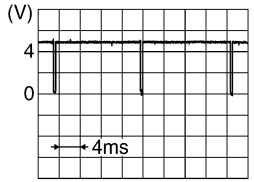
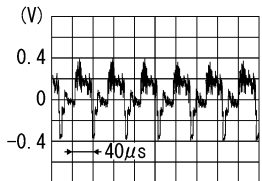
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AV CONTROL UNIT

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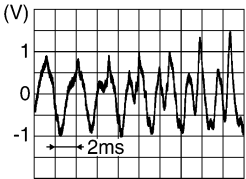
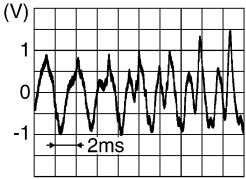
[BASE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
45 (LG)	Ground	Horizontal synchronizing (HP) signal	Input	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">SKIB3601E</p>
46 (LG)	Ground	Signal GND	—	Ignition switch ON	—	0 V
47 (O)	Ground	Signal VCC	Output	Ignition switch ACC	—	9 V
49	—	Shield	—	—	—	—
50	—	Shield	—	—	—	—
55	—	Shield	—	—	—	—
56 (L)	Ground	Communication signal (CONT→DISP)	Output	Ignition switch ON	When adjusting display- brightness.	 <p style="text-align: right; font-size: small;">PKIB5039J</p>
57 (GR)	Ground	Vertical synchronizing (VP) signal	Input	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">SKIB3598E</p>
58 (BR)	Ground	Inverter GND	—	Ignition switch ON	—	0 V
59 (Y)	Ground	Inverter VCC	Output	Ignition switch ACC	—	9 V
66 (R)	Ground	AUX image signal	Input	Ignition switch ON	When AUX mode is select- ed	 <p style="text-align: right; font-size: small;">SKIB2251J</p>
73	—	Shield	—	—	—	—
74 (L)	Ground	AUX image signal GND	—	Ignition switch ON	—	0 V

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

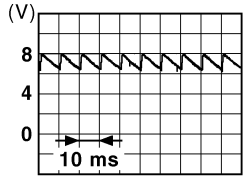
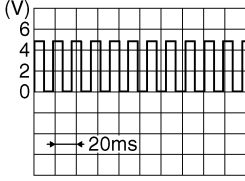
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
85 (B)	Ground	GND	—	Ignition switch ON	—	0 V
86 (L)	—	CAN-H	Input/ Output	—	—	—
87 (P)	—	CAN-L	Input/ Output	—	—	—
88 (SB)	—	AV communication signal (H)	Input/ Output	—	—	—
89 (W)	—	AV communication signal (L)	Input/ Output	—	—	—
90 (L)	—	AV communication signal (H)	Input/ Output	—	—	—
91 (P)	—	AV communication signal (L)	Input/ Output	—	—	—
95 (L)	Ground	AUX sound signal RH	Input	Ignition switch ON	When AUX mode is select- ed	 <small>SKIB3609E</small>
96 (W)	Ground	AUX sound signal LH	Input	Ignition switch ON	When AUX mode is select- ed	 <small>SKIB3609E</small>
97	—	Shield	—	—	—	—
101 (BR)	Ground	SW GND	—	Ignition switch ON	—	0 V
103 (LG)	Ground	Eject signal	Input	—	Pressing the eject switch	0 V
					Except for above	3.3 V
104 (G)	Ground	Ignition signal	Input	Ignition switch ON	—	Battery voltage
105 (O)	Ground	Reverse signal	Input	Ignition switch ON	R position	12 V
					Other than R position	0 V

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AV CONTROL UNIT

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[BASE AUDIO WITHOUT NAVIGATION]

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

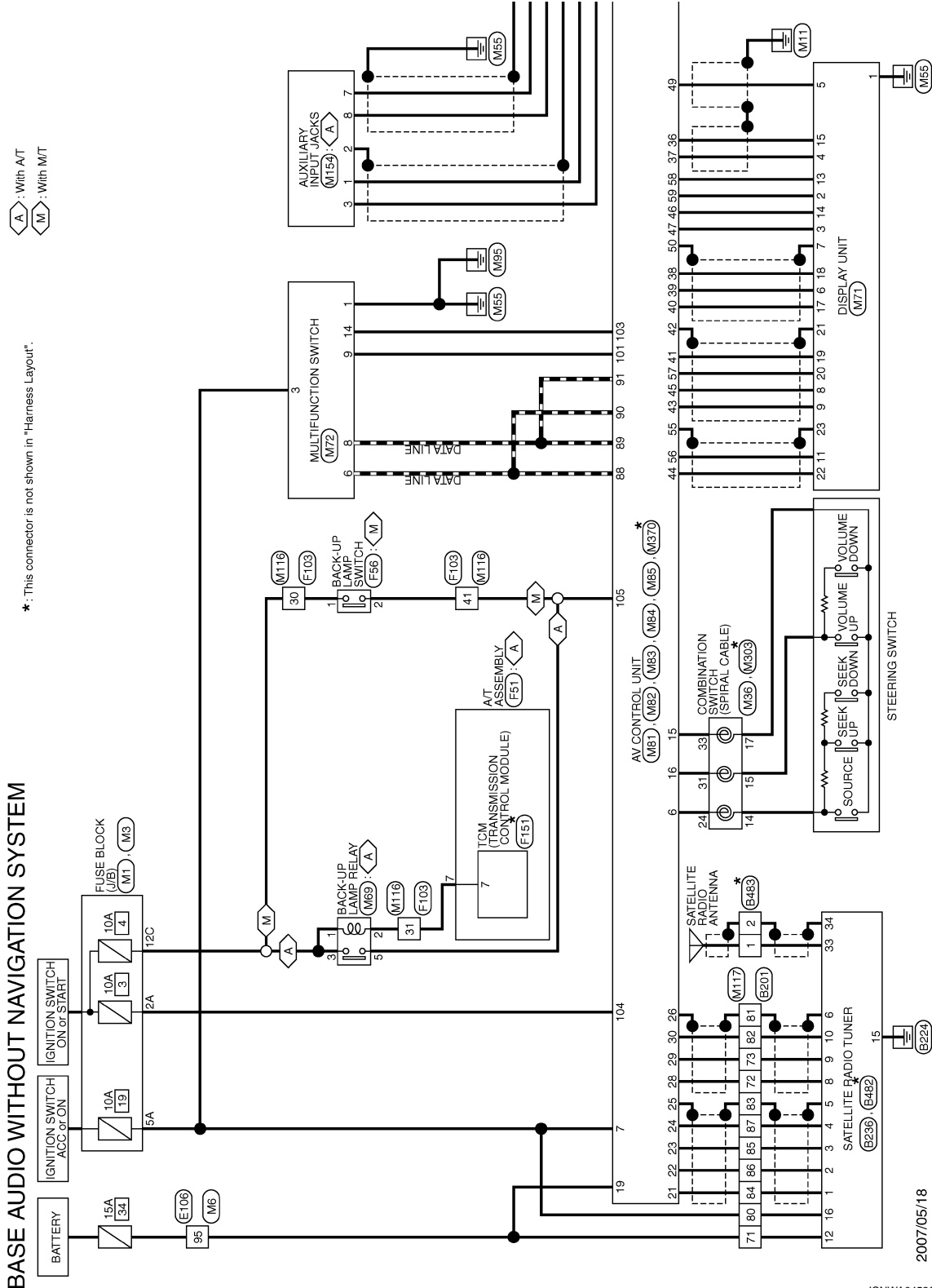
AV CONTROL UNIT

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[BASE AUDIO WITHOUT NAVIGATION]

Wiring Diagram - BASE AUDIO WITHOUT NAVIGATION SYSTEM -

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BASE AUDIO WITHOUT NAVIGATION SYSTEM

A: With AT
M: With MT

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

2007/05/18

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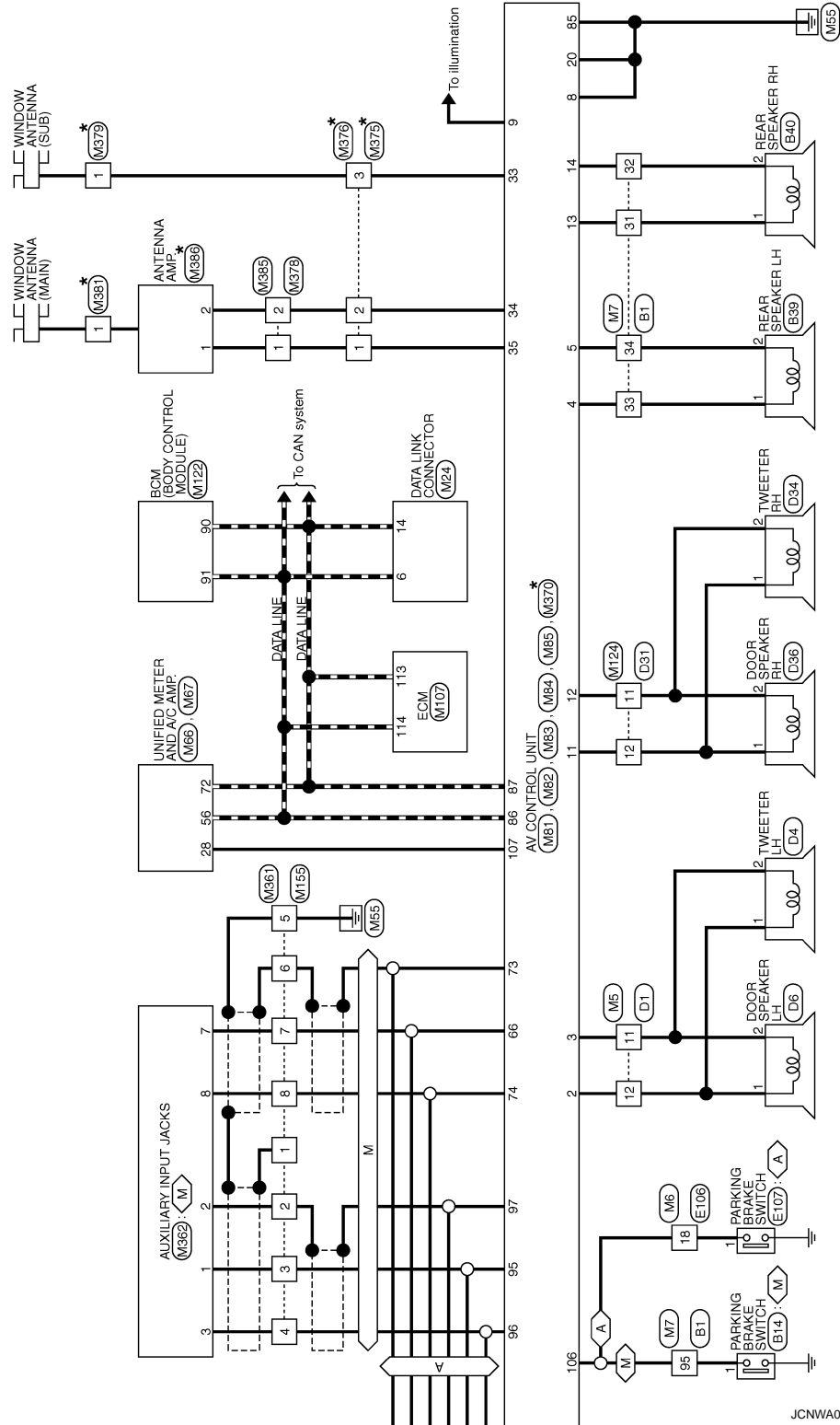
AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

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◊ With A/T
◊ With M/T

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



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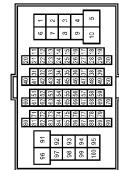
AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
31	LG	-
32	Y	-
33	LG	-
34	Y	-
95	V	-

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



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

Connector No.	B39
Connector Name	REAR SPEAKER LH
Connector Type	NS20FW-CS



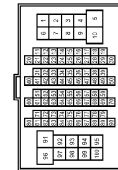
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	Y	-

Connector No.	B40
Connector Name	REAR SPEAKER RH
Connector Type	NS20FW-CS



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
71	SB	-
72	Y	-
73	O	-
80	V	-
81	SHIELD	-
82	BP	-
83	SHIELD	-
84	G	-
85	W	-
86	R	-
87	B	-

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



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

16	V	ACC
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Connector No.	B482
Connector Name	SATELLITE RADIO TUNER
Connector Type	-



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

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AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

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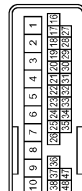
BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B483
Connector Name	SATELLITE RADIO ANTENNA
Connector Type	GT16C-1PP-1H1



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
11	W	-
12	L	-

Connector No.	D4
Connector Name	TWEETER LH
Connector Type	TK02FBR


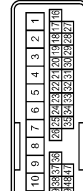
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D6
Connector Name	DOOR SPEAKER LH
Connector Type	NS32FW-CS



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
11	W	-
12	L	-

Connector No.	D34
Connector Name	TWEETER RH
Connector Type	TK02FBR


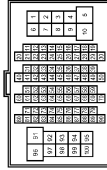
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D36
Connector Name	DOOR SPEAKER RH
Connector Type	NS32FW-CS

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

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

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AV CONTROL UNIT

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[BASE AUDIO WITHOUT NAVIGATION]

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	E107	Connector No.	F51	Connector No.	F56	Connector No.	F103
Connector Name	PARKING BRAKE SWITCH (A/T)	Connector Name	A/T ASSEMBLY	Connector Name	BACK-UP LAMP SWITCH	Connector Name	WIRE TO WIRE
Connector Type	TB01FW	Connector Type	RK10FG-DGY	Connector Type	RK02FB	Connector Type	TK3BFW-NS/D

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

Terminal No.	7	Color of Wire	R	Signal Name [Specification]	
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Terminal No.	1	Color of Wire	R	Signal Name [Specification]	
Terminal No.	2	Color of Wire	O	Signal Name [Specification]	

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

Connector No.	F151	Connector No.	M1	Connector No.	M3	Connector No.	M5
Connector Name	TOM (TRANSMISSION CONTROL MODULE)	Connector Name	FUSE BLOCK (J/B)	Connector Name	FUSE BLOCK (J/B)	Connector Name	WIRE TO WIRE
Connector Type	SPI0FBGY	Connector Type	NS06FW-M2	Connector Type	NS12FW-CS	Connector Type	TH40MM-CS15

Terminal No.	7	Color of Wire	O	Signal Name [Specification]	
Terminal No.	8	Color of Wire	R	Signal Name [Specification]	
Terminal No.	9	Color of Wire	R	Signal Name [Specification]	
Terminal No.	10	Color of Wire	R	Signal Name [Specification]	
Terminal No.	11	Color of Wire	R	Signal Name [Specification]	
Terminal No.	12	Color of Wire	L	Signal Name [Specification]	

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

Terminal No.	11	Color of Wire	W	Signal Name [Specification]	
Terminal No.	12	Color of Wire	L	Signal Name [Specification]	

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[BASE AUDIO WITHOUT NAVIGATION]

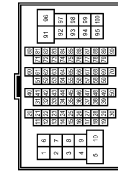
BASE AUDIO WITHOUT NAVIGATION SYSTEM

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



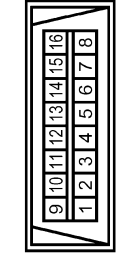
Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

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



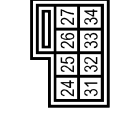
Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	P	-
33	LG	-
34	SB	-
95	O	-

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



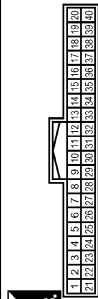
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

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



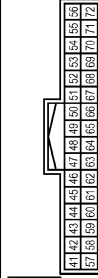
Terminal No.	Color of Wire	Signal Name [Specification]
24	G	-
31	L	-
33	B	-

Connector No.	M68
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



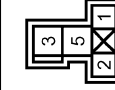
Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

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



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

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



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

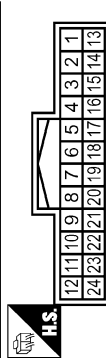
AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

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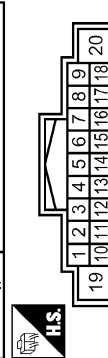
BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M71
Connector Name	DISPLAY UNIT (WITHOUT NAVI)
Connector Type	TH16FW-NH



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

Connector No.	M81
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH16FW-CS2

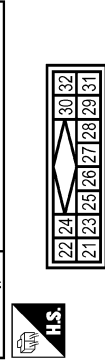


Terminal No.	Color of Wire	Signal Name [Specification]
2	L	FRONT DOOR SPEAKER LH (+)
3	W	FRONT DOOR SPEAKER LH (-)
4	LG	REAR DOOR SPEAKER LH (+)
5	SB	REAR DOOR SPEAKER LH (-)
6	G	STRG SW A
7	V	ACC
8	B	GND
9	L	ILLUMINATION
11	BR	FRONT DOOR SPEAKER RH (+)
12	GR	FRONT DOOR SPEAKER RH (-)
13	L	REAR SPEAKER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

14	LG	SIGNAL GND
15	B	AUX IMAGE SIGNAL
17	G	RGB (RED) SIGNAL
18	P	RGB (BLUE) SIGNAL
19	Y	RGB SYNC
20	GR	VP
21	SHIELD	SHIELD
22	G	COMM (DISP->CONT)
23	SHIELD	SHIELD

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	L	ACC
6	SB	AV COMM (H)
8	W	AV COMM (L)
9	BR	SW GND
14	LG	EJECT SIGNAL [Without NAVI]

Connector No.	M82
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	JA12FW



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

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AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M83
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH32PW-NH

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

47	O	SIGNAL VCC
49	Y	SHIELD
50	SHIELD	SHIELD
55	SHIELD	SHIELD
56	L	COMM (CONT->DISP)
57	GR	V+
58	BR	INVERTER GND
59	Y	INVERTER VCC

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

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

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

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

Connector No.	M85
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH32PW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
85	B	GND
86	L	CAN-H
87	P	CAN-L
88	V	AV COMM (H)
89	LG	AV COMM (L)
90	L	AV COMM (H)
91	P	AV COMM (L)
95	R	AUX SOUND SIGNAL RH (+)
96	W	AUX SOUND SIGNAL LH (+)
97	SHIELD	SHIELD
101	BR	SW GND

103	LG	EJECT SIGNAL
104	G	IGNITION
105	O	REVERSE
106	SB	PARKING BRAKE
107	GR	VEHICLE SPEED (8-PULSE)

Connector No.	M107
Connector Name	ECM
Connector Type	FR24FGY-R2Z-R-LH-Z

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

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK36MP-NS10

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

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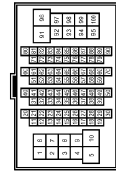
AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

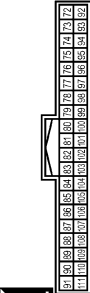
BASE AUDIO WITHOUT NAVIGATION SYSTEM

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



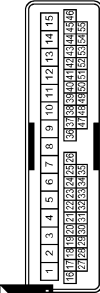
Terminal No.	Color of Wire	Signal Name [Specification]
71	Y	-
72	P	-
73	G	-
80	W	-
81	SHIELD	-
82	L	-
83	SHIELD	-
84	W	-
85	R	-
86	B	-
87	G	-

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



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

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS16



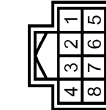
Terminal No.	Color of Wire	Signal Name [Specification]
11	GR	-
12	BR	-

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB8FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+)
2	SHIELD	SHIELD [Without NAV]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M155
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-NH



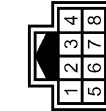
Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	SHIELD	- [Without NAV]
3	R	-
4	W	-
5	B	-
6	SHIELD	-
7	G	-
8	R	-

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



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

Connector No.	M361
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-NH



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

Connector No.	M362
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB8FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	SOUND SIGNAL RH (+) [Without NAV]
2	SHIELD	SHIELD [Without NAV]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

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AV CONTROL UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

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



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

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



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

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



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

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-1/1PP-HU



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

Connector No.	M379
Connector Name	WINDOW ANTENNA (SUB)
Connector Type	P01PB-A



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

Connector No.	M381
Connector Name	WINDOW ANTENNA (MAIN)
Connector Type	P01PB-A



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

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/1S-HU



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

Connector No.	M386
Connector Name	ANTENNA AMP.
Connector Type	GT13SC-1/1S-HU



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

NOTE:

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

DTC Index

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

JCNWA0461GE

INFOID:000000001559184

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

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

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DISPLAY UNIT

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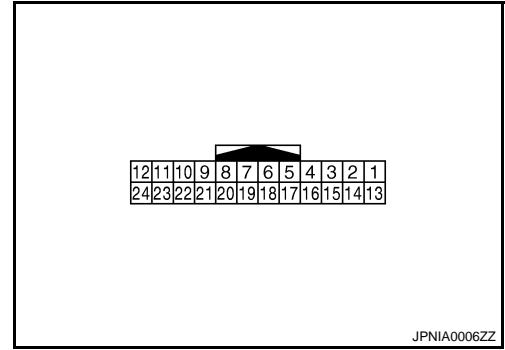
[BASE AUDIO WITHOUT NAVIGATION]

DISPLAY UNIT

Reference Value

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TERMINAL LAYOUT



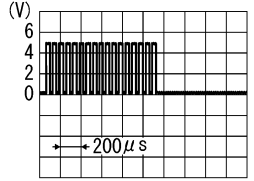
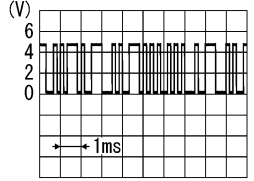
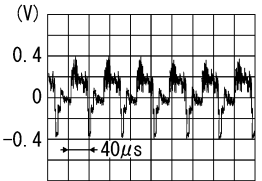
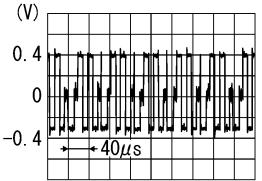
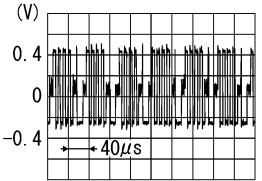
PHYSICAL VALUES

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

DISPLAY UNIT

< ECU DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

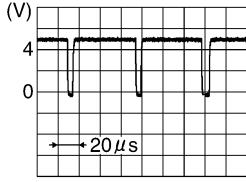
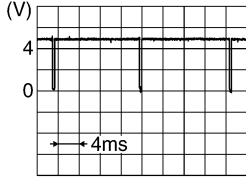
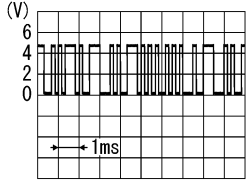
Terminal (Wire color)		Description		Condition	Reference value (Approx.)
+	-	Signal name	Input/ Output		
9 (P)	Ground	RGB area (YS) signal	Input	Ignition switch ON	At RGB image is displayed 5 V
				Ignition switch ON	At AUX image is displayed  PKIB4948J
11 (L)	Ground	Communication signal (CONT→DISP)	Input	Ignition switch ON	When adjusting display-brightness.  PKIB5039J
13 (BR)	Ground	Inverter GND	—	Ignition switch ON	— 0 V
14 (LG)	Ground	Signal GND	—	Ignition switch ON	— 0 V
15 (R)	Ground	AUX image signal	Input	Ignition switch ON	At AUX image is displayed  SKIB2251J
17 (G)	Ground	RGB signal (R: red)	Input	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.  SKIB2238J
18 (P)	Ground	RGB signal (B: blue)	Input	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.  SKIB2237J

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< ECU DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

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

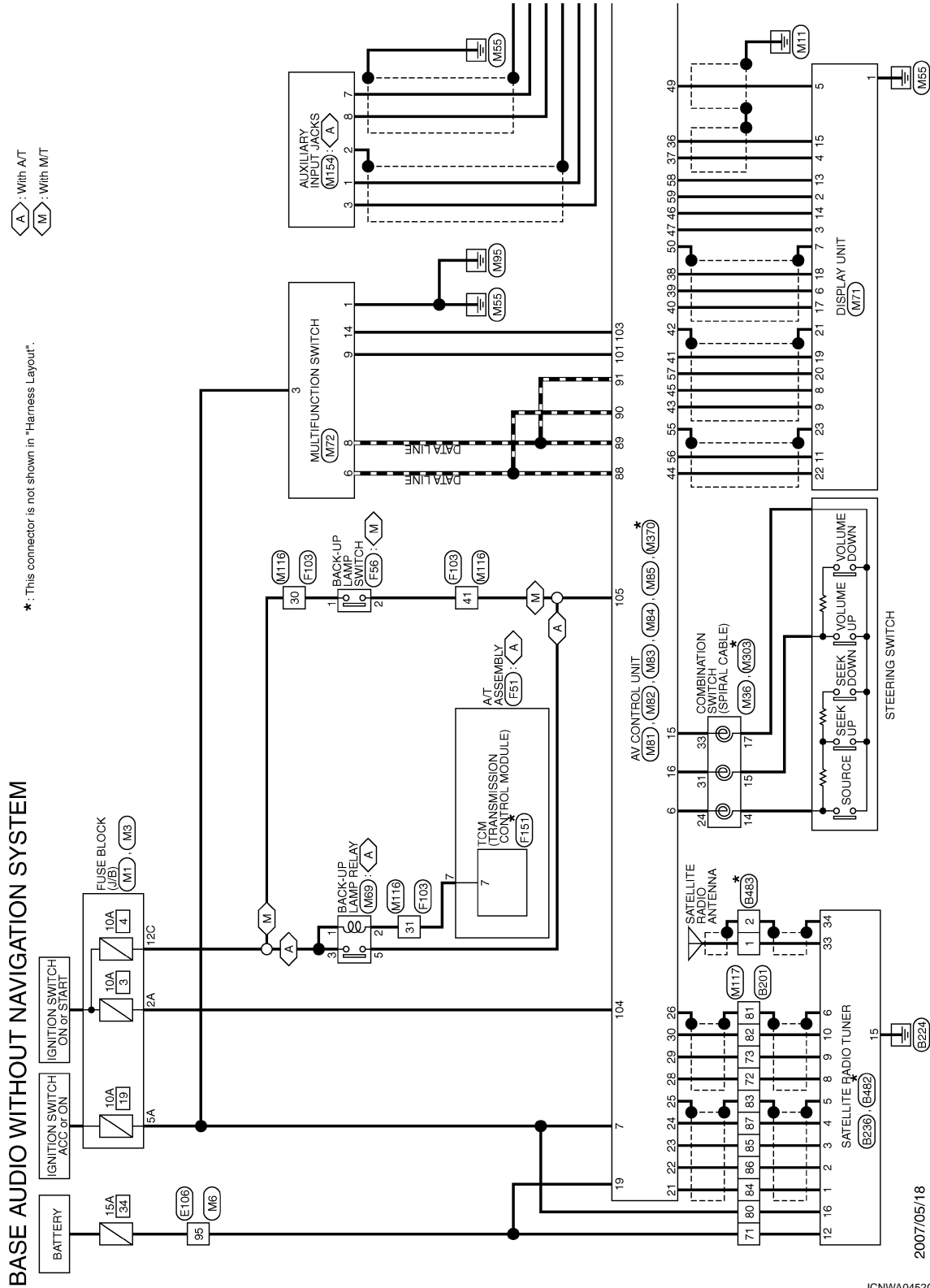
DISPLAY UNIT

< ECU DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Wiring Diagram - BASE AUDIO WITHOUT NAVIGATION SYSTEM -

INFOID:000000001689686



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

BASE AUDIO WITHOUT NAVIGATION SYSTEM

A: With AT
M: With MT

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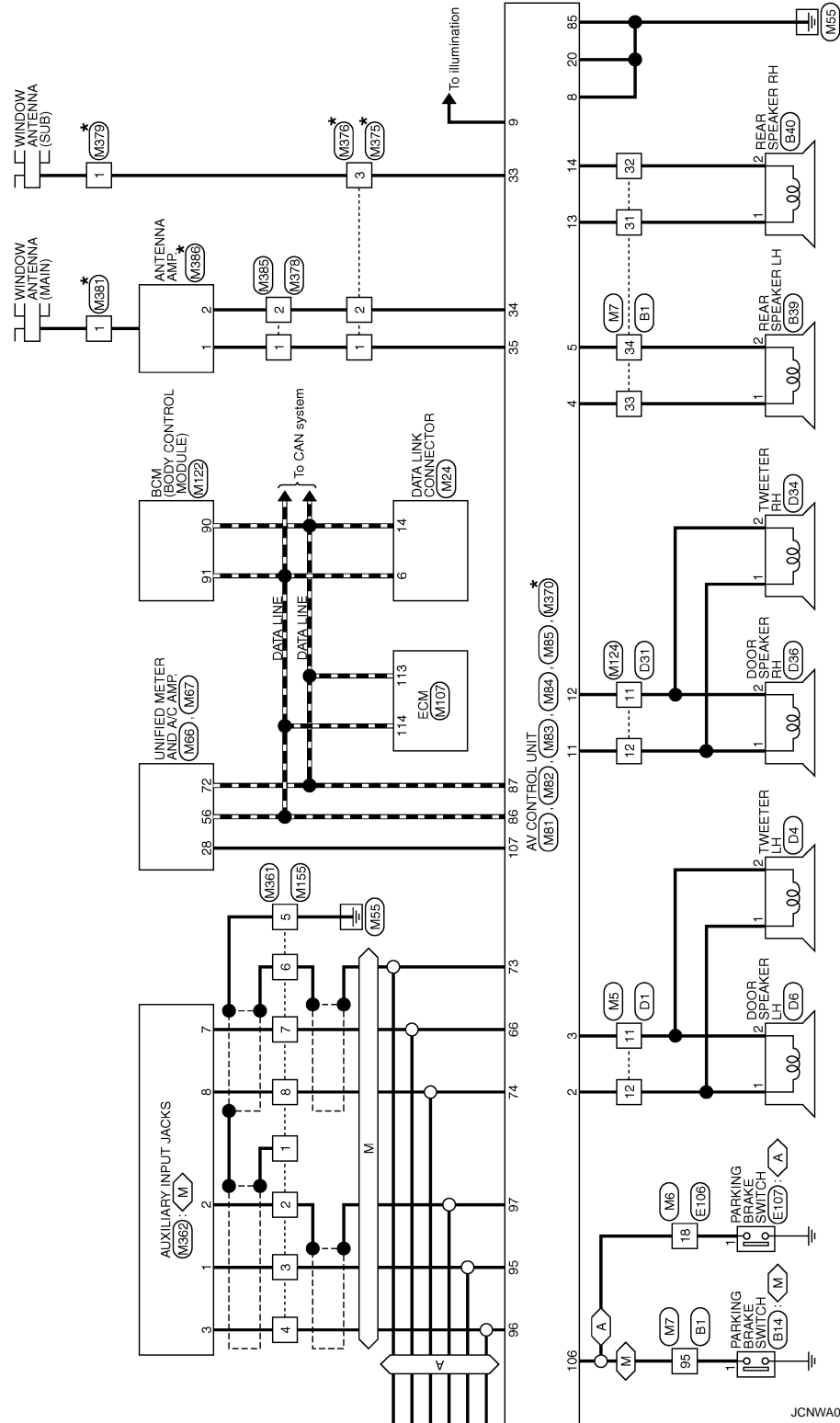
DISPLAY UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

◊ A : With A/T
◊ M : With M/T

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



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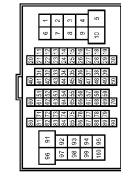
DISPLAY UNIT

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
31	LG	-
32	Y	-
33	LG	-
34	Y	-
95	V	-

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



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

Connector No.	B39
Connector Name	REAR SPEAKER LH
Connector Type	NS20FW-CS



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

Connector No.	B40
Connector Name	REAR SPEAKER RH
Connector Type	NS20FW-CS



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
71	SB	-
72	Y	-
73	O	-
80	V	-
81	SHIELD	-
82	BP	-
83	SHIELD	-
84	G	-
85	W	-
86	R	-
87	B	-

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



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

16	V	ACC
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Connector No.	B482
Connector Name	SATELLITE RADIO TUNER
Connector Type	-



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



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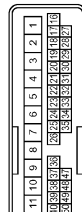
BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B483
Connector Name	SATELLITE RADIO ANTENNA
Connector Type	GT16C-1PP-1H1



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
11	W	-
12	L	-

Connector No.	D4
Connector Name	TWEETER LH
Connector Type	TK02FBR


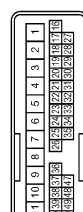
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D6
Connector Name	DOOR SPEAKER LH
Connector Type	NS32FW-CS



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
11	W	-
12	L	-

Connector No.	D34
Connector Name	TWEETER RH
Connector Type	TK02FBR


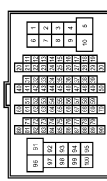
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D36
Connector Name	DOOR SPEAKER RH
Connector Type	NS32FW-CS

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

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

Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

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DISPLAY UNIT

< ECU DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	E107	Connector No.	F51	Connector No.	F103
Connector Name	PARKING BRAKE SWITCH (A/T)	Connector Name	A/T ASSEMBLY	Connector Name	WIRE TO WIRE
Connector Type	TB01FW	Connector Type	RK10FG-DGY	Connector Type	TK3BFW-NS/D

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

Terminal No.	7	Color of Wire	R	Signal Name [Specification]	
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Terminal No.	1	Color of Wire	R	Signal Name [Specification]	
2					

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

Connector No.	F151	Connector No.	M1	Connector No.	M3	Connector No.	M5
Connector Name	TOM (TRANSMISSION CONTROL MODULE)	Connector Name	FUSE BLOCK (J/B)	Connector Name	FUSE BLOCK (J/B)	Connector Name	WIRE TO WIRE
Connector Type	SPI0FBGY	Connector Type	NS06FW-M2	Connector Type	NS12FW-CS	Connector Type	TH40MM-CS15

Terminal No.	7	Color of Wire	O	Signal Name [Specification]	
8					
9					
10					
11					
12					

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

Terminal No.	12C	Color of Wire	R	Signal Name [Specification]	
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Terminal No.	11	Color of Wire	W	Signal Name [Specification]	
12					

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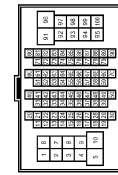
DISPLAY UNIT

< ECU DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

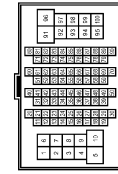
BASE AUDIO WITHOUT NAVIGATION SYSTEM

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



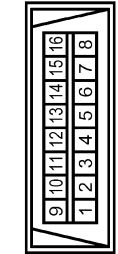
Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

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



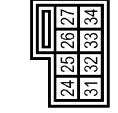
Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	P	-
33	LG	-
34	SB	-
95	O	-

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



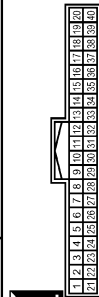
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

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



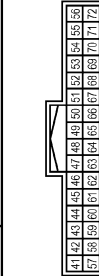
Terminal No.	Color of Wire	Signal Name [Specification]
24	G	-
31	L	-
33	B	-

Connector No.	M68
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



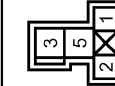
Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

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



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

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



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

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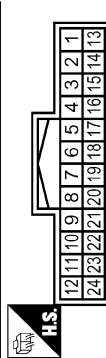
DISPLAY UNIT

[BASE AUDIO WITHOUT NAVIGATION]

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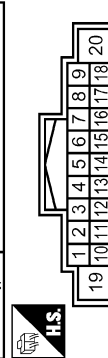
BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M71
Connector Name	DISPLAY UNIT (WITHOUT NAVI)
Connector Type	TH16FW-NH



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

Connector No.	M81
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-CS2

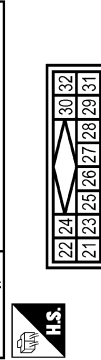


Terminal No.	Color of Wire	Signal Name [Specification]
2	L	FRONT DOOR SPEAKER LH (+)
3	W	FRONT DOOR SPEAKER LH (-)
4	LG	REAR DOOR SPEAKER LH (+)
5	SB	REAR DOOR SPEAKER LH (-)
6	G	STRG SW A
7	V	ACC
8	B	GND
9	L	ILLUMINATION
11	BR	FRONT DOOR SPEAKER RH (+)
12	GR	FRONT DOOR SPEAKER RH (-)
13	L	REAR SPEAKER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

14	LG	SIGNAL GND
15	B	AUX IMAGE SIGNAL
17	G	RGB (RED) SIGNAL
18	P	RGB (BLUE) SIGNAL
19	Y	RGB SYNC
20	GR	VP
21	SHIELD	SHIELD
22	G	COMM (DISP->CONT)
23	SHIELD	SHIELD

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	L	ACC
6	SB	AV COMM (H)
8	W	AV COMM (L)
9	BR	SW GND
14	LG	EJECT SIGNAL [Without NAVI]

Connector No.	M82
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	JA12FW



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

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DISPLAY UNIT

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[BASE AUDIO WITHOUT NAVIGATION]

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M83
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH24PW-NH

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

47	O	SIGNAL VCC
49	Y	SHIELD
50	SHIELD	SHIELD
55	SHIELD	SHIELD
56	L	COMM (CONT->DISP)
57	GR	V+
58	BR	INVERTER GND
59	Y	INVERTER VCC

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

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

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

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

Connector No.	M85
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH32PW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
85	B	GND
86	L	CAN-H
87	P	CAN-L
88	V	AV COMM (H)
89	LG	AV COMM (L)
90	L	AV COMM (H)
91	P	AV COMM (L)
95	R	AUX SOUND SIGNAL RH (+)
96	W	AUX SOUND SIGNAL LH (+)
97	SHIELD	SHIELD
101	BR	SW GND

103	LG	EJECT SIGNAL
104	G	IGNITION
105	O	REVERSE
106	SB	PARKING BRAKE
107	GR	VEHICLE SPEED (8-PULSE)

Connector No.	M107
Connector Name	ECM
Connector Type	FR24FGY-R2Z-R-LH-Z

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

Terminal No.	Color of Wire	Signal Name [Specification]
85	B	GND
86	L	CAN-H
87	P	CAN-L
88	V	AV COMM (H)
89	LG	AV COMM (L)
90	L	AV COMM (H)
91	P	AV COMM (L)
95	R	AUX SOUND SIGNAL RH (+)
96	W	AUX SOUND SIGNAL LH (+)
97	SHIELD	SHIELD
101	BR	SW GND

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

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK36MP-NS10

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

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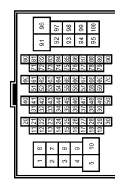
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[BASE AUDIO WITHOUT NAVIGATION]

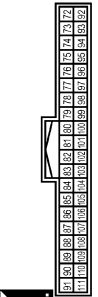
BASE AUDIO WITHOUT NAVIGATION SYSTEM

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



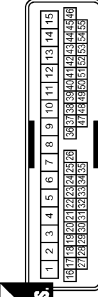
Terminal No.	Color of Wire	Signal Name [Specification]
71	Y	-
72	P	-
73	G	-
80	W	-
81	SHIELD	-
82	L	-
83	SHIELD	-
84	W	-
85	R	-
86	B	-
87	G	-

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



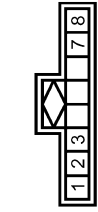
Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS16



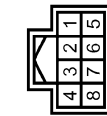
Terminal No.	Color of Wire	Signal Name [Specification]
11	GR	-
12	BR	-

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	JAB8FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+)
2	SHIELD	[Without NAV]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

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



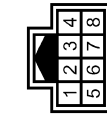
Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	SHIELD	- [Without NAV]
3	R	-
4	W	-
5	B	-
6	SHIELD	-
7	G	-
8	R	-

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



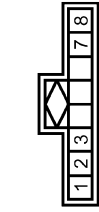
Terminal No.	Color of Wire	Signal Name [Specification]
14	W	-
15	L	-
17	BR	-

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



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

Connector No.	M362
Connector Name	AUXILIARY INPUT JACKS
Connector Type	JAB8FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	SOUND SIGNAL RH (+) [Without NAV]
2	SHIELD	[Without NAV]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

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[BASE AUDIO WITHOUT NAVIGATION]

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	Connector Name	Connector Type	Terminal No.	Color of Wire	Signal Name [Specification]
M370	AV CONTROL UNIT (WITHOUT NAVI)	GT13SH-2/1S-HU	33	-	FM SUB
			34	-	AM-FM MAIN
			35	-	ANTENNA AMP. ON SIGNAL
M375	WIRE TO WIRE	GT13SC-2/1S-HU	1	-	-
			2	-	-
			3	-	-
M376	WIRE TO WIRE	GT13SCN-2/1PP-HU	1	-	-
			2	-	-
			3	-	-
M378	WIRE TO WIRE	GT13SCN-1/1PP-HU	1	-	-
			2	-	-
M379	WINDOW ANTENNA (SUB)	P01FB-A	1	-	-
M381	WINDOW ANTENNA (MAIN)	P01FB-A	1	-	-
M385	WIRE TO WIRE	GT13SC-1/1S-HU	1	-	-
			2	-	-
M386	ANTENNA AMP.	GT13SC-1/1S-HU	1	-	-
			2	-	ANTENNA AMP. ON SIGNAL
				-	AM-FM MAIN

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NOTE:

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

SATELLITE RADIO TUNER

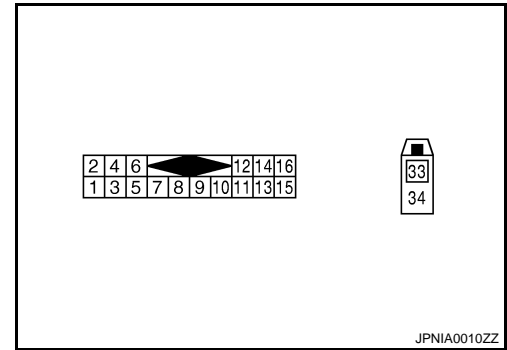
[BASE AUDIO WITHOUT NAVIGATION]

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SATELLITE RADIO TUNER

Reference Value

INFOID:000000001605595



PHYSICAL VALUES

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

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SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

Terminal		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
10 (BR)	Ground	Communication signal (CONT→SAT)	Input	Ignition switch ON	When satellite radio mode is selected	
12 (SB)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
15 (B)	Ground	GND	—	Ignition switch ON	—	0 V
16 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
33	—	Satellite antenna	Input	—	—	—
34	—	Shield	—	—	—	—

SATELLITE RADIO TUNER

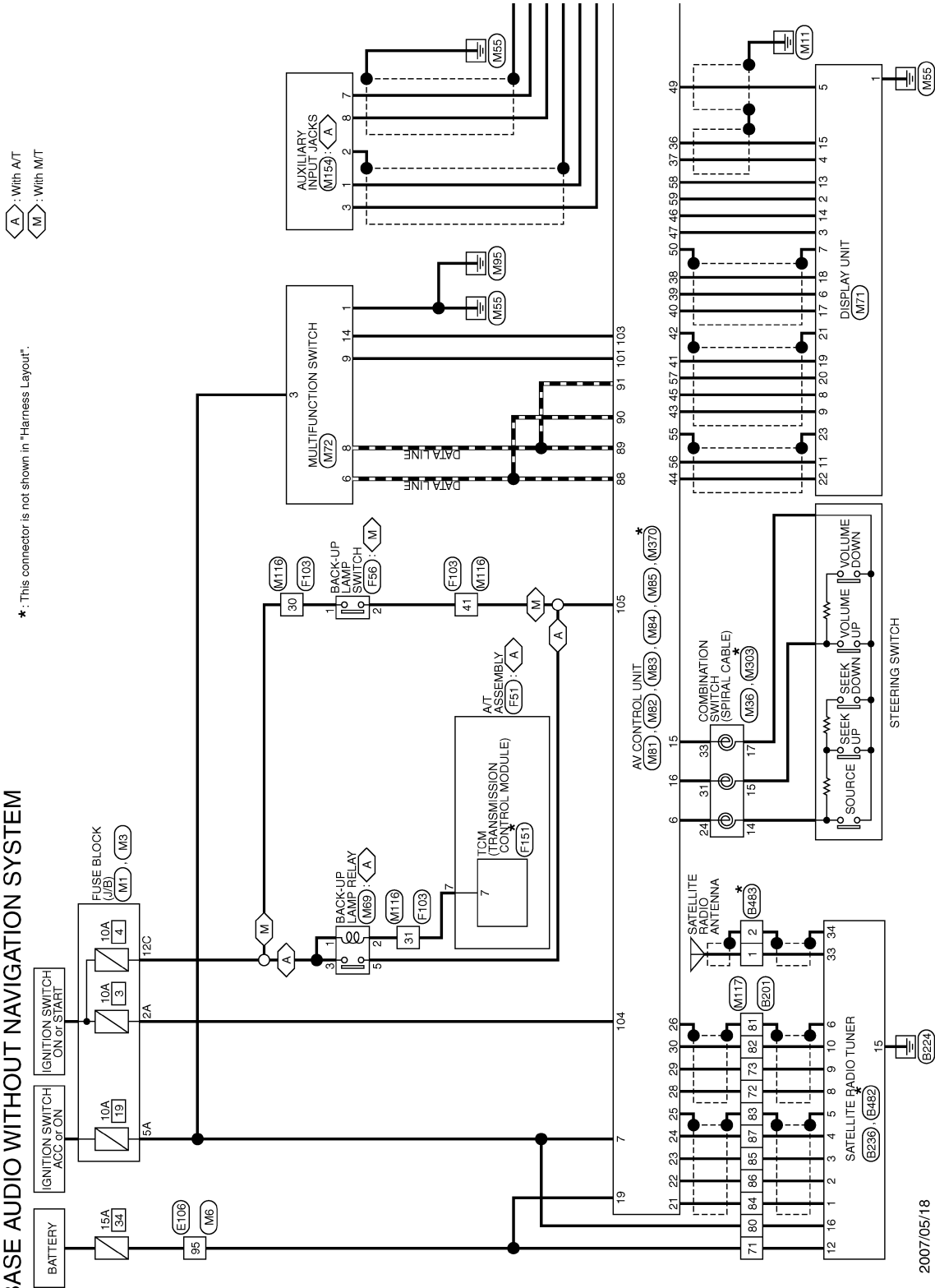
[BASE AUDIO WITHOUT NAVIGATION]

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Wiring Diagram - BASE AUDIO WITHOUT NAVIGATION SYSTEM -

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BASE AUDIO WITHOUT NAVIGATION SYSTEM



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

A: With AT
M: With MT

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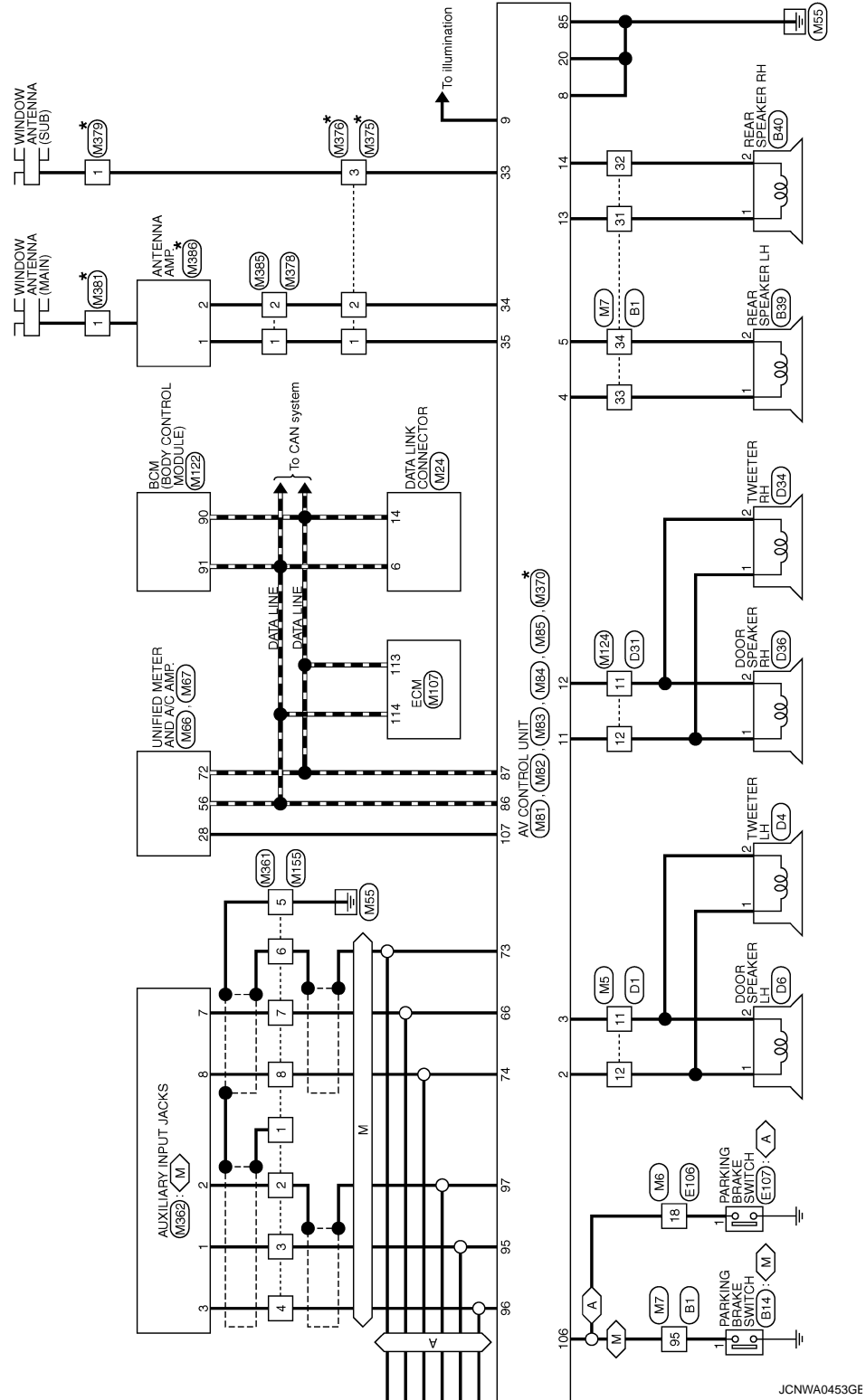
SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

◊ A : With A/T
◊ M : With M/T

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



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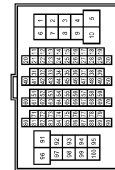
SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
31	LG	-
32	Y	-
33	LG	-
34	Y	-
95	V	-

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



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

Connector No.	B39
Connector Name	REAR SPEAKER LH
Connector Type	NS20FW-CS



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

Connector No.	B40
Connector Name	REAR SPEAKER RH
Connector Type	NS20FW-CS



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
71	SB	-
72	Y	-
73	O	-
80	V	-
81	SHIELD	-
82	BP	-
83	SHIELD	-
84	G	-
85	W	-
86	R	-
87	B	-

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



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

16	V	ACC
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Connector No.	B482
Connector Name	SATELLITE RADIO TUNER
Connector Type	-



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

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SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

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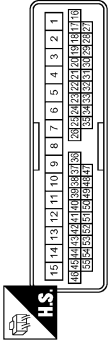
BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B483
Connector Name	SATELLITE RADIO ANTENNA
Connector Type	GT16C-1PP-1H1



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
11	W	-
12	L	-

Connector No.	D4
Connector Name	TWEETER LH
Connector Type	TK02FBR



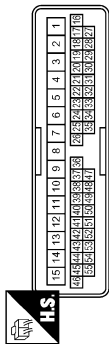
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D6
Connector Name	DOOR SPEAKER LH
Connector Type	NS32FW-CS



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
11	W	-
12	L	-

Connector No.	D34
Connector Name	TWEETER RH
Connector Type	TK02FBR



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

Connector No.	D36
Connector Name	DOOR SPEAKER RH
Connector Type	NS32FW-CS



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

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

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SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

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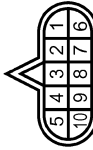
BASE AUDIO WITHOUT NAVIGATION SYSTEM

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



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

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



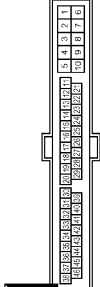
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-

Connector No.	F66
Connector Name	BACK-UP LAMP SWITCH
Connector Type	RK02FB



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

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK3BFW-NS/D



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

Connector No.	F151
Connector Name	TOM (TRANSMISSION CONTROL MODULE)
Connector Type	SPI0FBGY



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

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



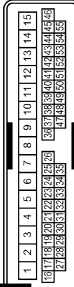
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	L	-

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



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

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MM-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
11	W	-
12	L	-

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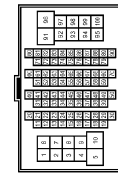
SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

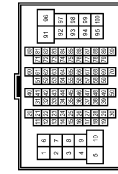
BASE AUDIO WITHOUT NAVIGATION SYSTEM

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



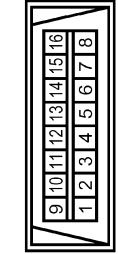
Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

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



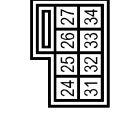
Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	P	-
33	LG	-
34	SB	-
95	O	-

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



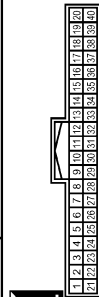
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

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



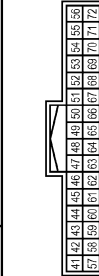
Terminal No.	Color of Wire	Signal Name [Specification]
24	G	-
31	L	-
33	B	-

Connector No.	M68
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



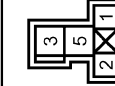
Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

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



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

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



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

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SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M71
Connector Name	DISPLAY UNIT (WITHOUT NAVI)
Connector Type	TH16FW-NH

Terminal No.	Signal Name [Specification]
1	B GND
2	Y INVERTER VCC
3	O SIGNAL VCC
4	L AUX IMAGE GND
5	Y COMPOSITE SYNC GND
6	L RGB (GREEN) SIGNAL
7	SHIELD SHIELD
8	LG HP
9	P RGB AREA (YS) SIGNAL
11	L COMM (CONT->DISP)
13	BR INVERTER GND

14	LG SIGNAL GND
15	B AUX IMAGE SIGNAL
17	G RGB (RED) SIGNAL
18	P RGB (BLUE) SIGNAL
19	Y RGB SYNC
20	GR VP
21	SHIELD SHIELD
22	G COMM (DISP->CONT)
23	SHIELD SHIELD

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

Terminal No.	Signal Name [Specification]
1	B GND
3	L ACC
6	SB AV COMM (H)
8	W AV COMM (L)
9	BR SW GND
14	LG EJECT SIGNAL [Without NAVI]

Connector No.	M81
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-CS2

Terminal No.	Signal Name [Specification]
2	L FRONT DOOR SPEAKER LH (+)
3	W FRONT DOOR SPEAKER LH (-)
4	LG REAR DOOR SPEAKER LH (+)
5	SB REAR DOOR SPEAKER LH (-)
6	G STRG SW A
7	V ACC
8	B GND
9	L ILLUMINATION
11	BR FRONT DOOR SPEAKER RH (+)
12	GR FRONT DOOR SPEAKER RH (-)
13	L REAR SPEAKER RH (+)

14	P REAR SPEAKER RH (-)
15	B STRG SW GND
16	L STRG SW B
19	Y BATTERY
20	B GND

Connector No.	M82
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	JA12FW

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

Terminal No.	Signal Name [Specification]
2	L FRONT DOOR SPEAKER LH (+)
3	W FRONT DOOR SPEAKER LH (-)
4	LG REAR DOOR SPEAKER LH (+)
5	SB REAR DOOR SPEAKER LH (-)
6	G STRG SW A
7	V ACC
8	B GND
9	L ILLUMINATION
11	BR FRONT DOOR SPEAKER RH (+)
12	GR FRONT DOOR SPEAKER RH (-)
13	L REAR SPEAKER RH (+)

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

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SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M83
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH32PW-NH

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

47	O	SIGNAL VCC
49	Y	SHIELD
50	SHIELD	SHIELD
55	SHIELD	SHIELD
56	L	COMM (CONT->DISP)
57	GR	V+
58	BR	INVERTER GND
59	Y	INVERTER VCC

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

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

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

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

Connector No.	M85
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH32PW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
85	B	GND
86	L	CAN-H
87	P	CAN-L
88	V	AV COMM (H)
89	LG	AV COMM (L)
90	L	AV COMM (H)
91	P	AV COMM (L)
95	R	AUX SOUND SIGNAL RH (+)
96	W	AUX SOUND SIGNAL LH (+)
97	SHIELD	SHIELD
101	BR	SW GND

103	LG	EJECT SIGNAL
104	G	IGNITION
105	O	REVERSE
106	SB	PARKING BRAKE
107	GR	VEHICLE SPEED (8-PULSE)

Connector No.	M107
Connector Name	ECM
Connector Type	FR24FGY-R2Z-R-LH-Z

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

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK36MP-NS10

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

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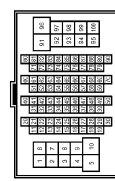
SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

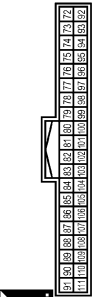
BASE AUDIO WITHOUT NAVIGATION SYSTEM

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



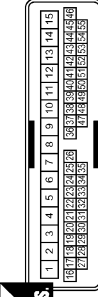
Terminal No.	Color of Wire	Signal Name [Specification]
71	Y	-
72	P	-
73	G	-
80	W	-
81	SHIELD	-
82	L	-
83	SHIELD	-
84	W	-
85	R	-
86	B	-
87	G	-

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



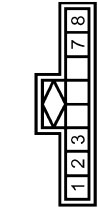
Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS16



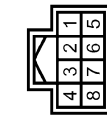
Terminal No.	Color of Wire	Signal Name [Specification]
11	GR	-
12	BR	-

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB8FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+)
2	SHIELD	SHIELD [Without NAV]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M155
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-NH



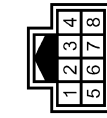
Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	SHIELD	- [Without NAV]
3	R	-
4	W	-
5	B	-
6	SHIELD	-
7	G	-
8	R	-

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



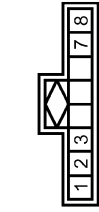
Terminal No.	Color of Wire	Signal Name [Specification]
14	W	-
15	L	-
17	BR	-

Connector No.	M361
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-NH



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

Connector No.	M362
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB8FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	SOUND SIGNAL RH (+) [Without NAV]
2	SHIELD	SHIELD [Without NAV]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

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SATELLITE RADIO TUNER

[BASE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BASE AUDIO WITHOUT NAVIGATION SYSTEM

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



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

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



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

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



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

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-1/1PP-HU



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

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



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

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



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

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/1S-HU



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

Connector No.	M386
Connector Name	ANTENNA AMP.
Connector Type	GT13SC-1/1S-HU



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

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NOTE:

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

MULTI AV SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

SYMPTOM DIAGNOSIS

MULTI AV SYSTEM SYMPTOMS

Symptom Table

INFOID:000000001559189

OPERATION

Symptoms	Check items	Possible malfunction location / Action to take
Multifunction switch and preset switch operation does not work.	<ul style="list-style-type: none"> All switches cannot be operated. "MULTI AV" is displayed with CONSULT-III. 	<ul style="list-style-type: none"> Multifunction switch power supply and ground circuit. AV communication circuits between AV control unit and multifunction switch. Perform CONSULT-III self-diagnosis. Refer to AV-26, "CONSULT - III Function (MULTI AV)" .
	<ul style="list-style-type: none"> All switches cannot be operated. "MULTI AV" is not displayed on system selection screen the CONSULT-III is initialized. 	AV control unit power supply and ground circuit malfunction. Refer to AV-39, "AV CONTROL UNIT : Diagnosis Procedure" .
	Only specified switch cannot be operated.	Multifunction switch or preset switch malfunction. Perform multifunction switch and preset switch self-diagnosis function. Refer to AV-40, "MULTIFUNCTION SWITCH : Diagnosis Procedure" .

RELATED TO RGB IMAGE

Trouble diagnosis chart by symptom

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

RELATED TO AUDIO

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take
The CD cannot be removed.	—	CD eject signal circuit. Refer to AV-51, "Diagnosis Procedure" .
Audio sound is not heard.	No sound from all speakers.	AV control unit Refer to AV-109, "Exploded View" .
	Sound is not heard only from the specific places (RH front, RH rear, LH front and LH rear).	Sound signal circuit of malfunctioning system.

MULTI AV SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

Symptoms	Check items	Possible malfunction location / Action to take
Satellite radio is not received.	"ANTENNA" is not displayed even when the channel is turned to 0 in Satellite radio mode.	Perform the following inspection procedure. 1. Check satellite radio antenna mounting nut for looseness. NOTE: Tightening torque: 6.5 N·m (0.66 kg-m, 58 in-lb.) 2. Visually check for satellite radio antenna feeder. 3. Replace the satellite radio antenna. Refer to AV-116, "Exploded View" . 4. Replace the satellite radio tuner. Refer to AV-115, "Exploded View" .
	"ANTENNA" is displayed when the channel is turned to 0 in Satellite radio mode.	Perform the following inspection procedure. 1. Check the connection between Satellite radio tuner and antenna feeder. 2. Check the connection between Satellite radio antenna and antenna feeder. 3. Check Antenna feeder for open circuit. 4. Replace the satellite radio antenna. Refer to AV-116, "Exploded View" . 5. Replace the satellite radio tuner. Refer to AV-115, "Exploded View" .
The sound of Satellite radio is not heard.	Other audio sounds are normal.	Satellite radio sound signal circuit malfunction between satellite radio tuner and AV control unit.
It does not change to Satellite radio mode.	There is malfunction in the CONSULT-III self-diagnosis result.	Perform CONSULT-III self-diagnosis. Refer to AV-26, "CONSULT - III Function (MULTI AV)" .
AM/FM radio is not received.	Other audio sounds are normal.	<ul style="list-style-type: none"> • Antenna amp. ON signal circuit. • Antenna feeder.

RELATED TO STEERING SWITCH

Trouble diagnosis chart by symptom

Symptoms	Inspection location / Probable malfunction location
None of the steering switch operations work.	Steering switch signal GND circuit. Refer to AV-59, "Diagnosis Procedure" .
Only specified switch (1) cannot be operated.	Steering switch. Refer to AV-119, "Exploded View" .
"SOURCE", "MENU UP", "MENU DOWN" switches of steering switch are not operated.	Steering switch signal A circuit. Refer to AV-55, "Diagnosis Procedure" .
"VOL UP", "VOL DOWN" switches of steering switch are not operated.	Steering switch signal B circuit. Refer to AV-57, "Diagnosis Procedure" .

RELATED TO AUXILIARY INPUT

NOTE:

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

Trouble diagnosis chart by symptom

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

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

NORMAL OPERATING CONDITION

Description

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BASIC OPERATIONS

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

RELATED TO AUDIO

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

NOTE:

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

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

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BASE AUDIO WITHOUT NAVIGATION]

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

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

NOTE:

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

PRECAUTION

PRECAUTIONS

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

INFOID:000000001836879

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

WARNING:

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

Precaution for Trouble Diagnosis

INFOID:000000001837006

AV COMMUNICATION SYSTEM

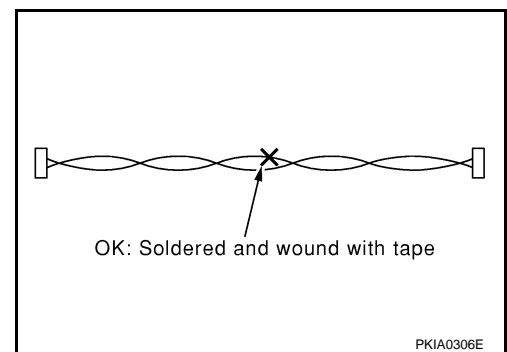
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

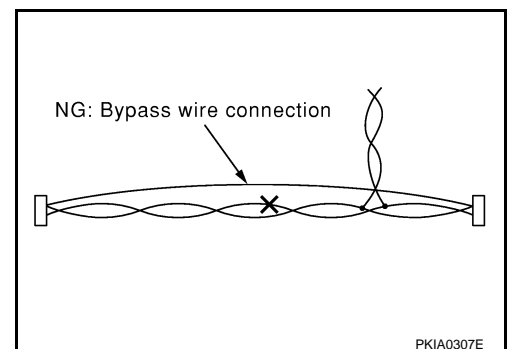
INFOID:000000001837010

AV COMMUNICATION SYSTEM

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



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



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PREPARATION

< PREPARATION >

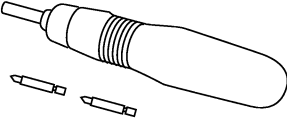
[BASE AUDIO WITHOUT NAVIGATION]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000001836990

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

AV CONTROL UNIT

< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

ON-VEHICLE REPAIR

AV CONTROL UNIT

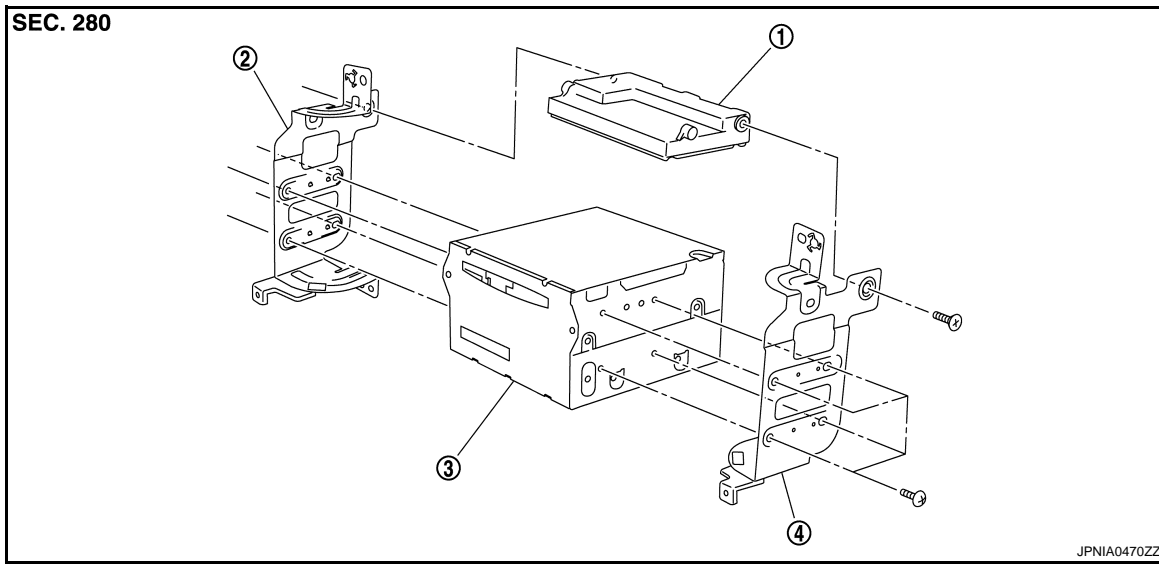
Exploded View

INFOID:000000001605609

REMOVAL

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

DISASSEMBLY



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

Removal and Installation

INFOID:000000001605610

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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

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AV

DISPLAY UNIT

Exploded View

INFOID:000000001684405

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

Removal and Installation

INFOID:000000001684406

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

DOOR SPEAKER

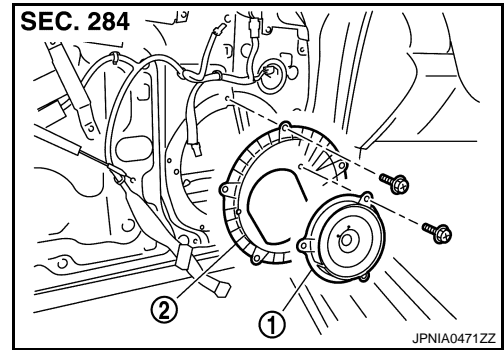
< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

DOOR SPEAKER

Exploded View

INFOID:000000001559199



1. Door speaker
2. Speaker bracket

Removal and Installation

INFOID:000000001559200

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

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REAR SPEAKER

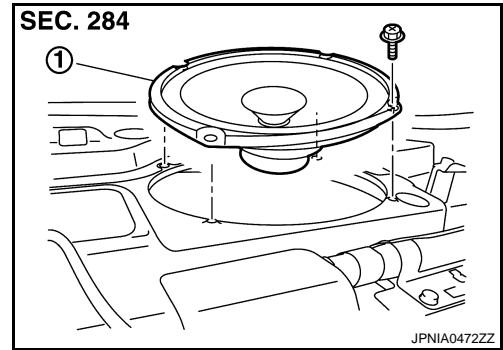
< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

REAR SPEAKER

Exploded View

INFOID:000000001684407



1. Rear speaker

Removal and Installation

INFOID:000000001684408

REMOVAL

1. Remove rear parcel shelf finisher. Refer to [INT-17, "Exploded View"](#).
2. Remove rear speaker from rear parcel shelf.

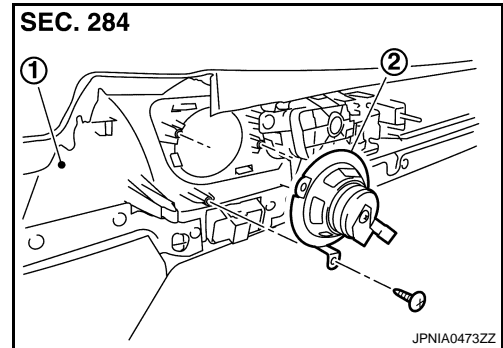
INSTALLATION

Install in the reverse order of removal.

TWEETER

Exploded View

INFOID:000000001559203



1. Door finisher
2. Tweeter

Removal and Installation

INFOID:000000001559204

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

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ANTENNA AMP.

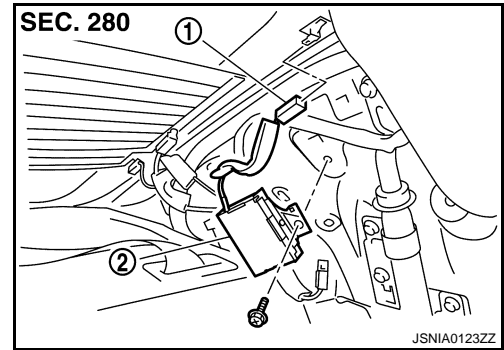
< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

ANTENNA AMP.

Exploded View

INFOID:000000001605602



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

Removal and Installation

INFOID:000000001605603

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

SATELLITE RADIO TUNER

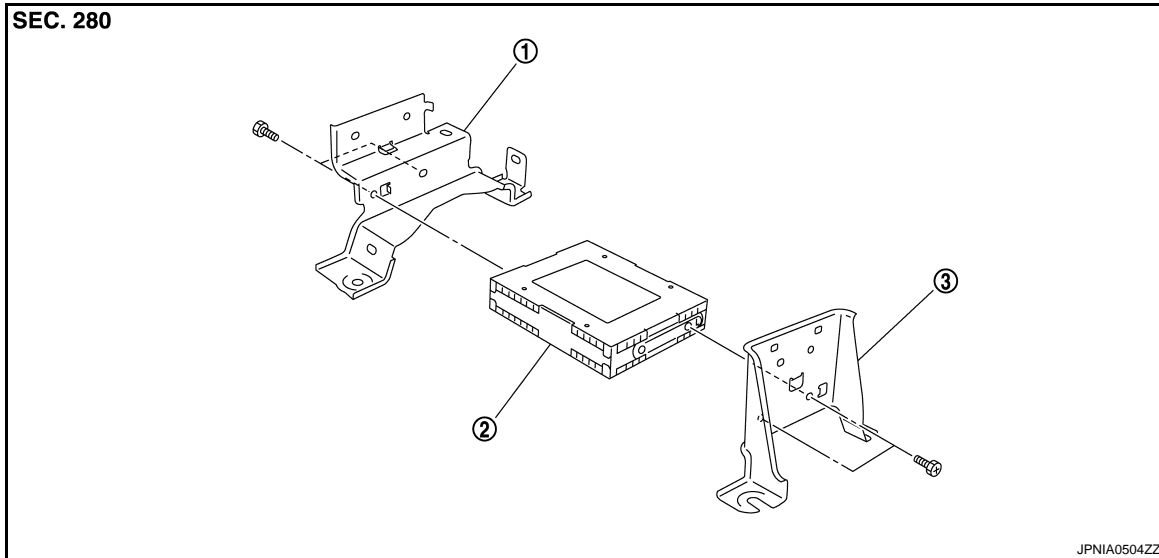
< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

SATELLITE RADIO TUNER

Exploded View

INFOID:000000001686031



1. Bracket (front)

2. Satellite radio tuner

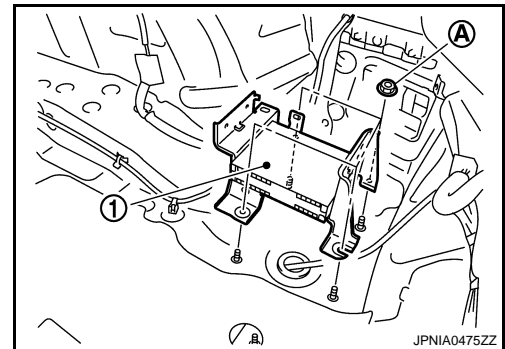
3. Bracket (rear)

Removal and Installation

INFOID:000000001686032

REMOVAL

1. Remove trunk floor spacer RH. Refer to [INT-27. "Exploded View"](#).
2. Remove nuts (A) from the trunk room RH, and satellite radio tuner (1) from trunk room side.



INSTALLATION

Install in the reverse order of removal.

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SATELLITE RADIO ANTENNA

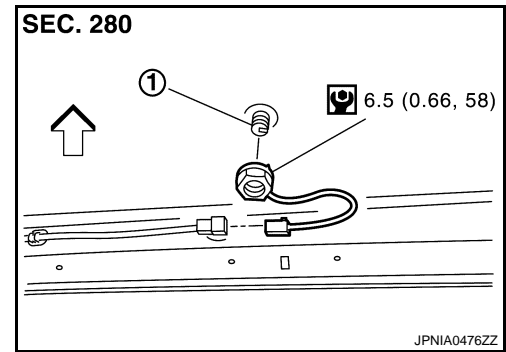
< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

SATELLITE RADIO ANTENNA

Exploded View

INFOID:000000001686033



⇨: Vehicle front

1. Satellite radio antenna

Removal and Installation

INFOID:000000001686034

REMOVAL

1. Remove headlining assembly (rear) to secure work space between vehicle and headlining. Refer to [INT-21, "NORMAL ROOF : Exploded View"](#) [with normal roof] [INT-24, "SUNROOF : Exploded View"](#) [with sun-roof].
2. Remove nuts, and then remove satellite radio antenna from roof panel.

INSTALLATION

Install in the reverse order of removal.

Roof antenna mounting nut  : 6.5 N·m (0.66 kg-m, 58 in-lb)

CAUTION:

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

MULTIFUNCTION SWITCH

< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

MULTIFUNCTION SWITCH

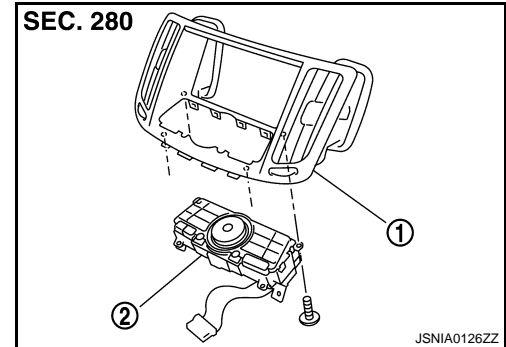
Exploded View

INFOID:000000001684411

REMOVAL

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

DISASSEMBLY



1. Center ventilator grille
2. Multifunction switch

Removal and Installation

INFOID:000000001684412

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

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PRESET SWITCH

< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

PRESET SWITCH

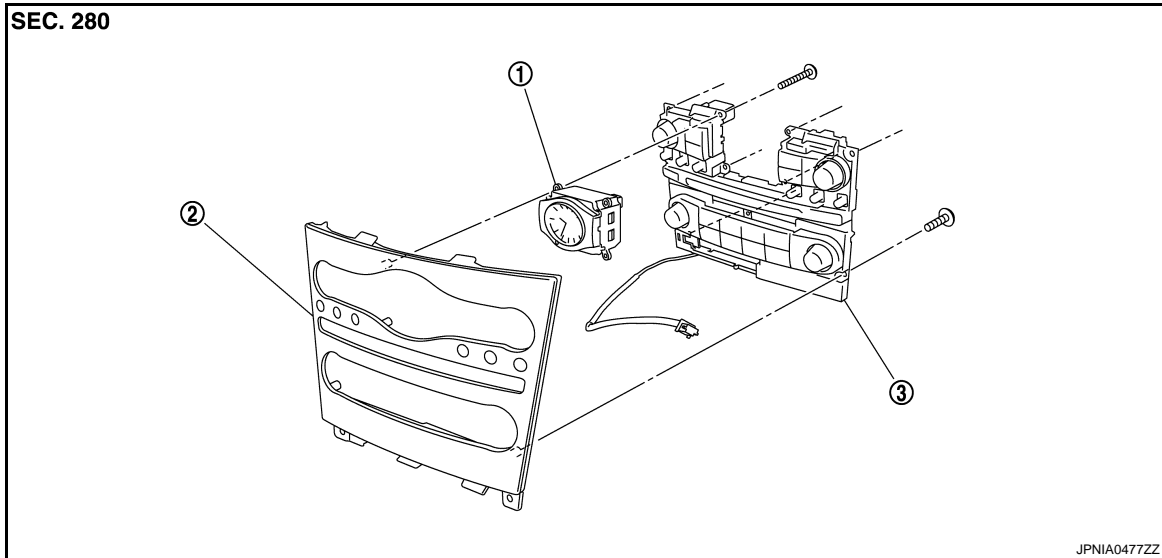
Exploded View

INFOID:000000001684415

REMOVAL

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

DISASSEMBLY



1. Clock

2. Cluster lid C

3. Preset switch

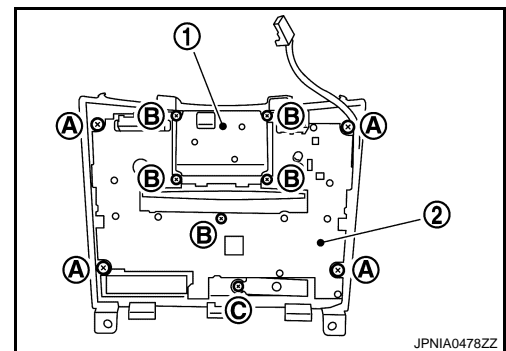
Removal and Installation

INFOID:000000001684416

REMOVAL

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

- 1. Clock
- A. Screw
- B. Screw
- C. Screw



INSTALLATION

Install in the reverse order of removal.

NOTE:

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

STEERING SWITCH

< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

STEERING SWITCH

Exploded View

INFOID:000000001605607

Refer to [ST-15, "Exploded View"](#).

Removal and Installation

INFOID:000000001605608

REMOVAL

Refer to [ST-15, "Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

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AUXILIARY INPUT JACKS

< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

AUXILIARY INPUT JACKS

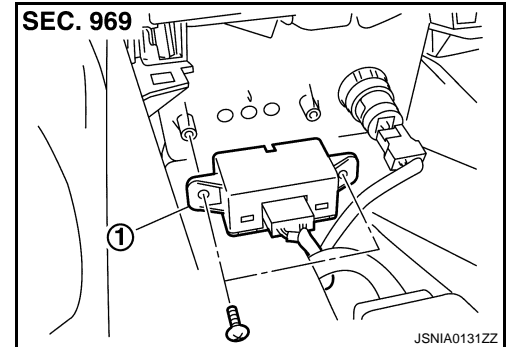
Exploded View

INFOID:000000001684417

REMOVAL

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

DISASSEMBLY



1. Auxiliary input jacks

Removal and Installation

INFOID:000000001684418

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

ANTENNA FEEDER (RADIO)

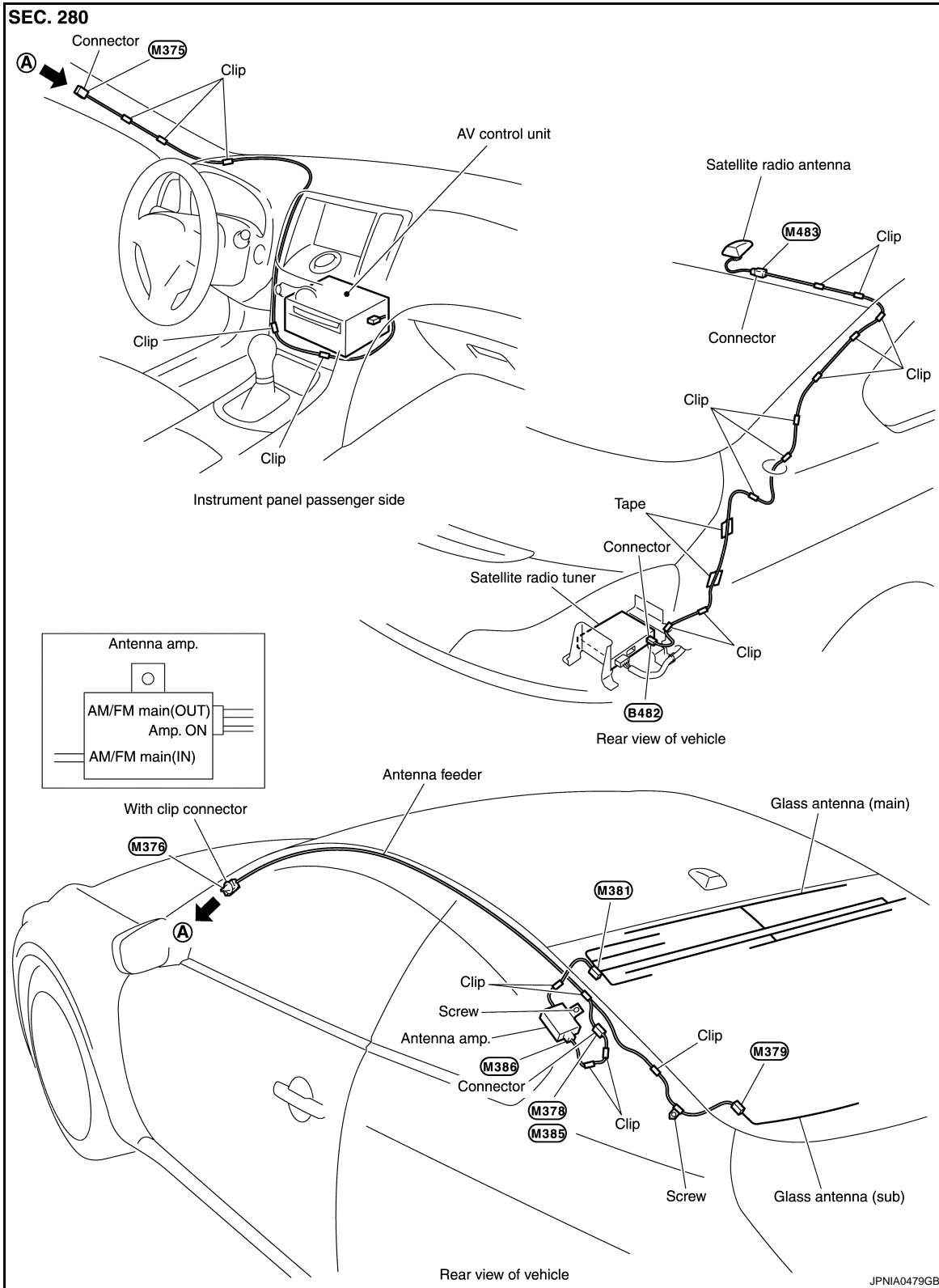
< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

ANTENNA FEEDER (RADIO)

Harness Layout

INFOID:000000001605605



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ANTENNA FEEDER (SATELLITE RADIO)

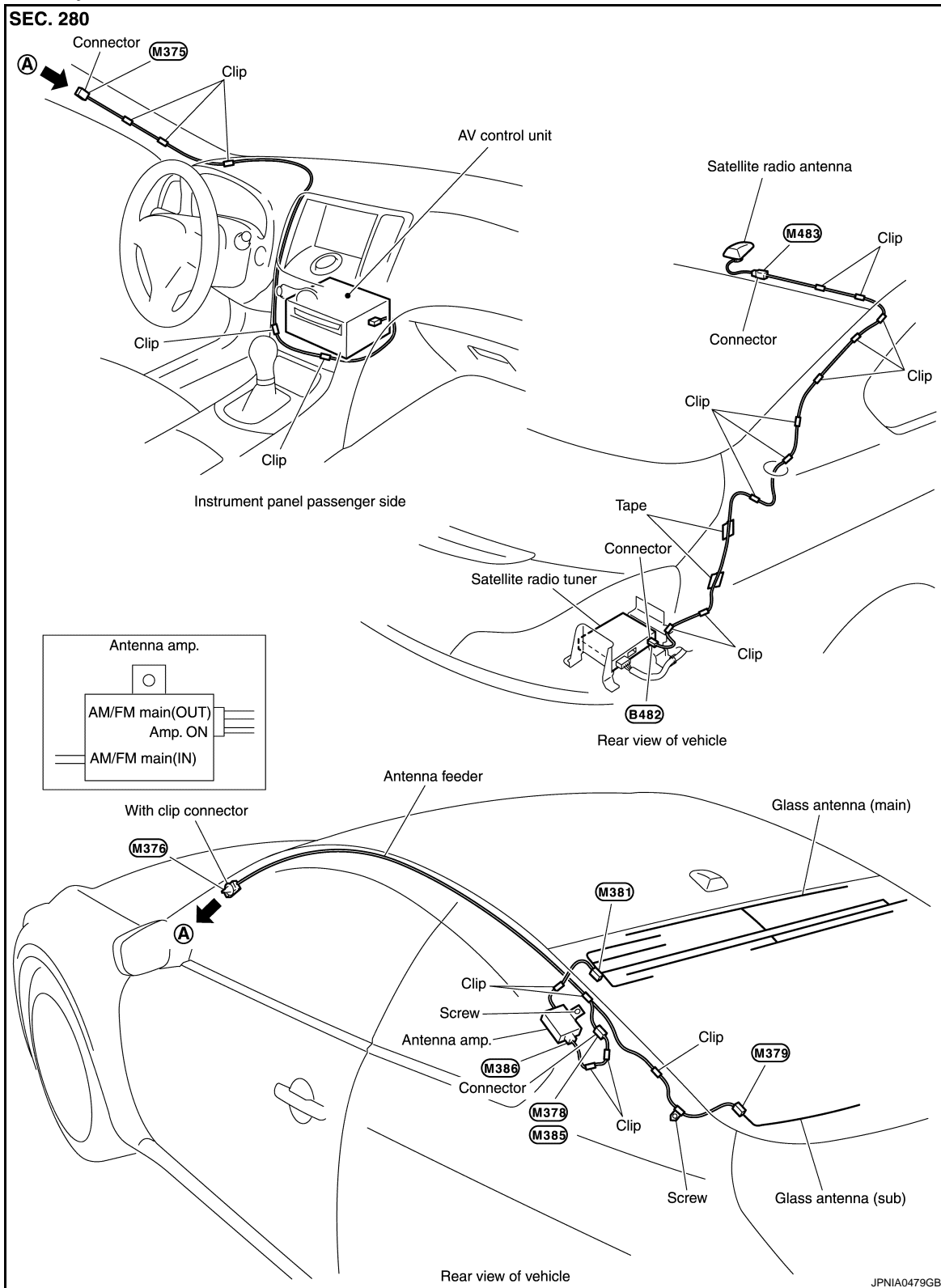
< ON-VEHICLE REPAIR >

[BASE AUDIO WITHOUT NAVIGATION]

ANTENNA FEEDER (SATELLITE RADIO)

Harness Layout

INFOID:000000001684402



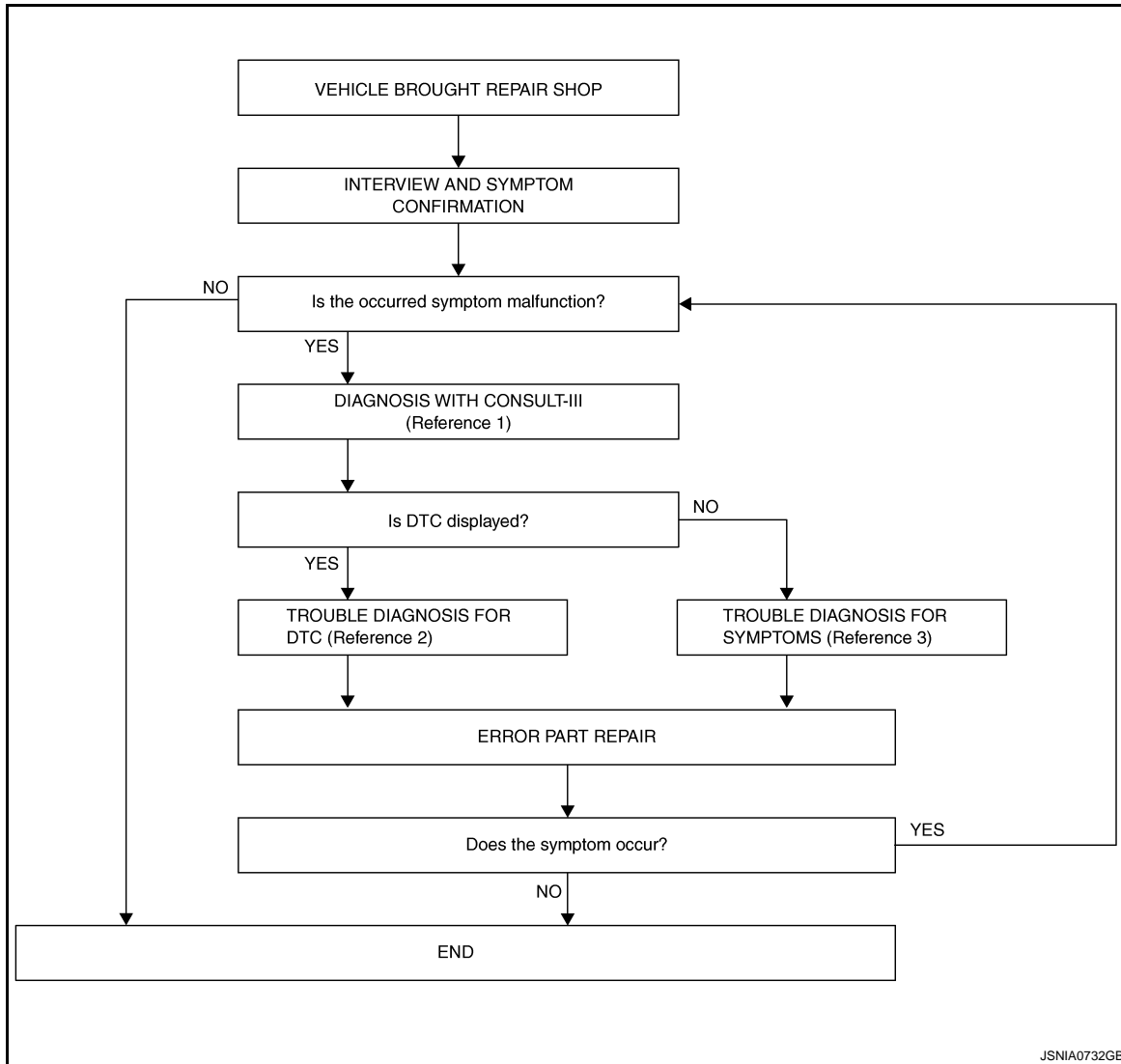
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000001677959

OVERALL SEQUENCE



- Reference 1... Refer to [AV-145. "CONSULT - III Function \(MULTI AV\)".](#)
- Reference 2... Refer to [AV-212. "DTC Index".](#)
- Reference 3... Refer to [AV-335. "Symptom Table".](#)

DETAILED FLOW

1. INTERVIEW AND SYMPTOM CONFIRMATION

Check the malfunction symptoms by performing the following items.

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

Is the occurred symptom malfunction?

YES >> GO TO 2.

NO >> INSPECTION END

2. DIAGNOSIS WITH CONSULT-III

DIAGNOSIS AND REPAIR WORKFLOW

[BOSE AUDIO WITHOUT NAVIGATION]

< BASIC INSPECTION >

1. Connect CONSULT-III and perform a self-diagnosis for "MULTI AV". Refer to [AV-145. "CONSULT - III Function \(MULTI AV\)".](#)

NOTE:

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

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

Is DTC displayed?

YES >> GO TO 3.

NO >> GO TO 4.

3. TROUBLE DIAGNOSIS FOR DTC

1. Check the DTC indicated in the self-diagnosis results.
2. Perform the relevant diagnosis referring to the DTC Index. Refer to [AV-212. "DTC Index".](#)

>> GO TO 5.

4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to [AV-335. "Symptom Table".](#)

>> GO TO 5.

5. ERROR PART REPAIR

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

NOTE:

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

3. Check that the symptom does not occur.

Does the symptom occur?

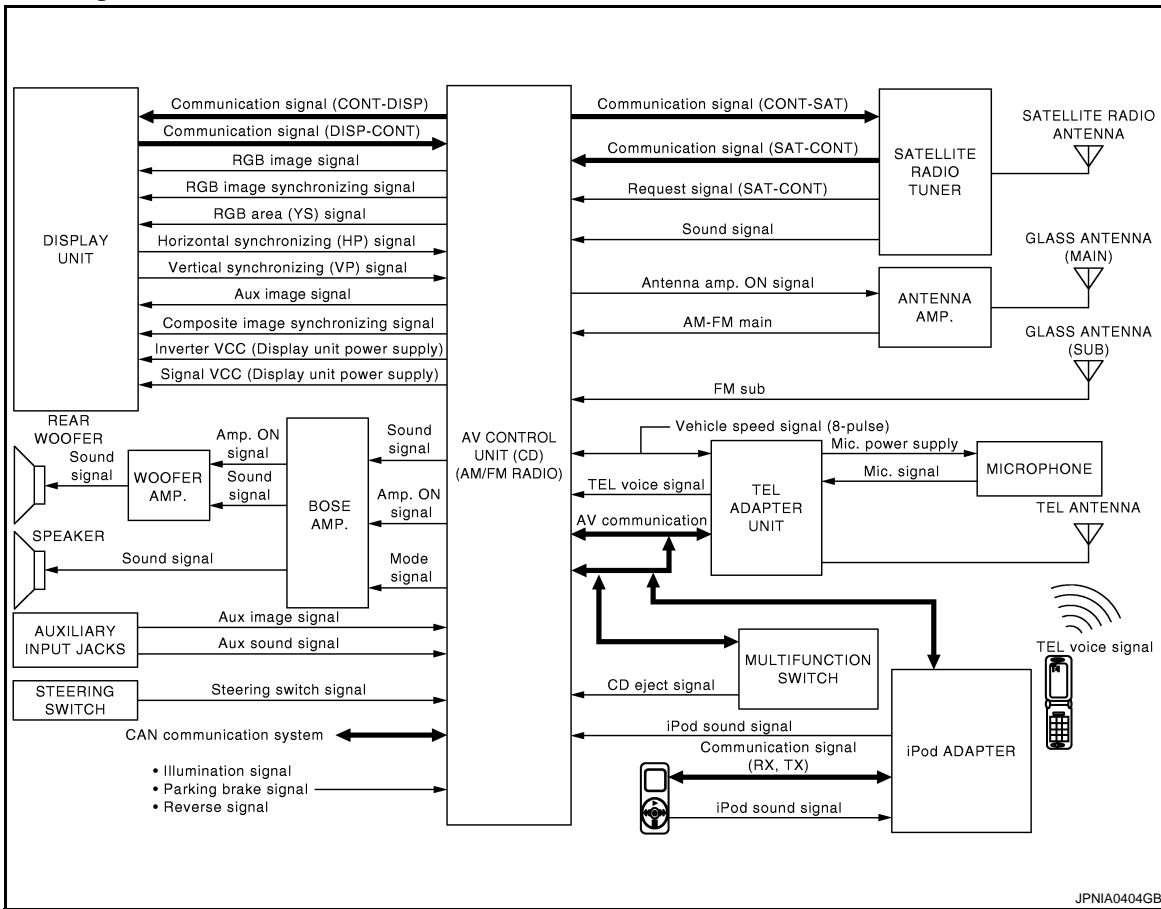
YES >> GO TO 1.

NO >> INSPECTION END

FUNCTION DIAGNOSIS

MULTI AV SYSTEM

System Diagram



NOTE:

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

System Description

Multi AV system means that the following systems are integrated.

System name	System explanation
AUDIO SYSTEM	AV-130. "System Description"
VEHICLE INFORMATION SYSTEM	<ul style="list-style-type: none"> Indicates the status of audio, climate control system, fuel economy and maintenance. AV control unit displays the fuel consumption status while receiving data signal through CAN communication from ECM, unified meter and A/C amp and BCM.
HANDS-FREE PHONE SYSTEM	AV-133. "System Description"
SATELLITE RADIO SYSTEM	Refer to "SATELLITE RADIO SYSTEM" shown below.
AUXILIARY INPUT SYSTEM	Refer to "AUXILIARY INPUT SYSTEM" shown below.

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

MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

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

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

NOTE:

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

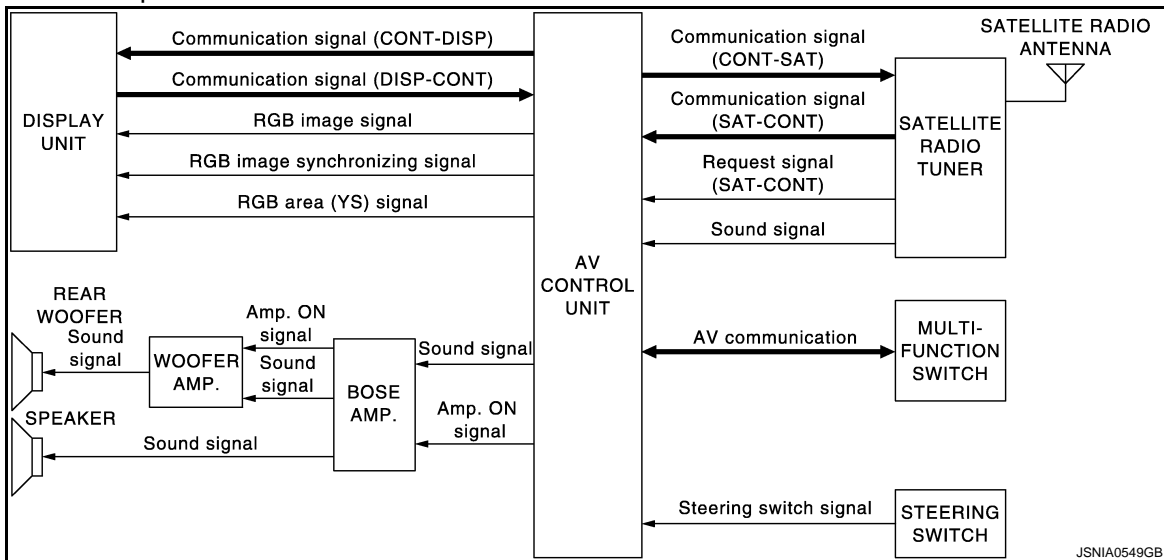
- CONSULT-III self-diagnosis: refer to [AV-145, "CONSULT - III Function \(MULTI AV\)"](#).
- On board self-diagnosis: refer to [AV-136, "Diagnosis Description"](#).

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

- Refer to [AV-148, "Diagnosis Description"](#) for on board self-diagnosis.

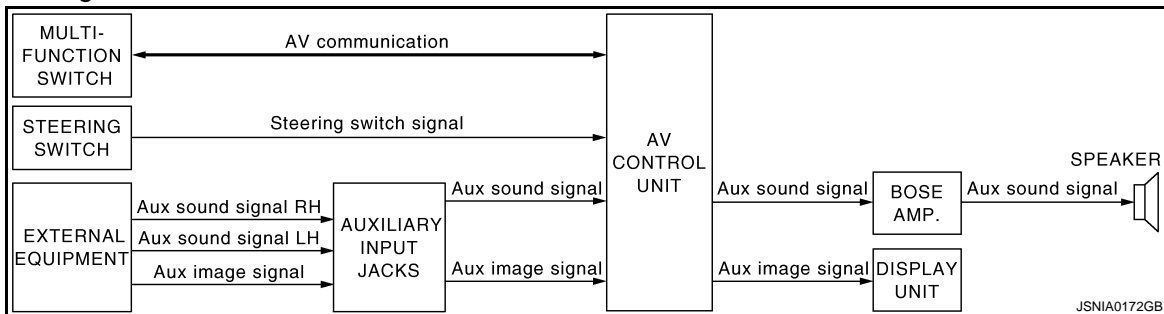
SATELLITE RADIO SYSTEM

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



AUXILIARY INPUT SYSTEM

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



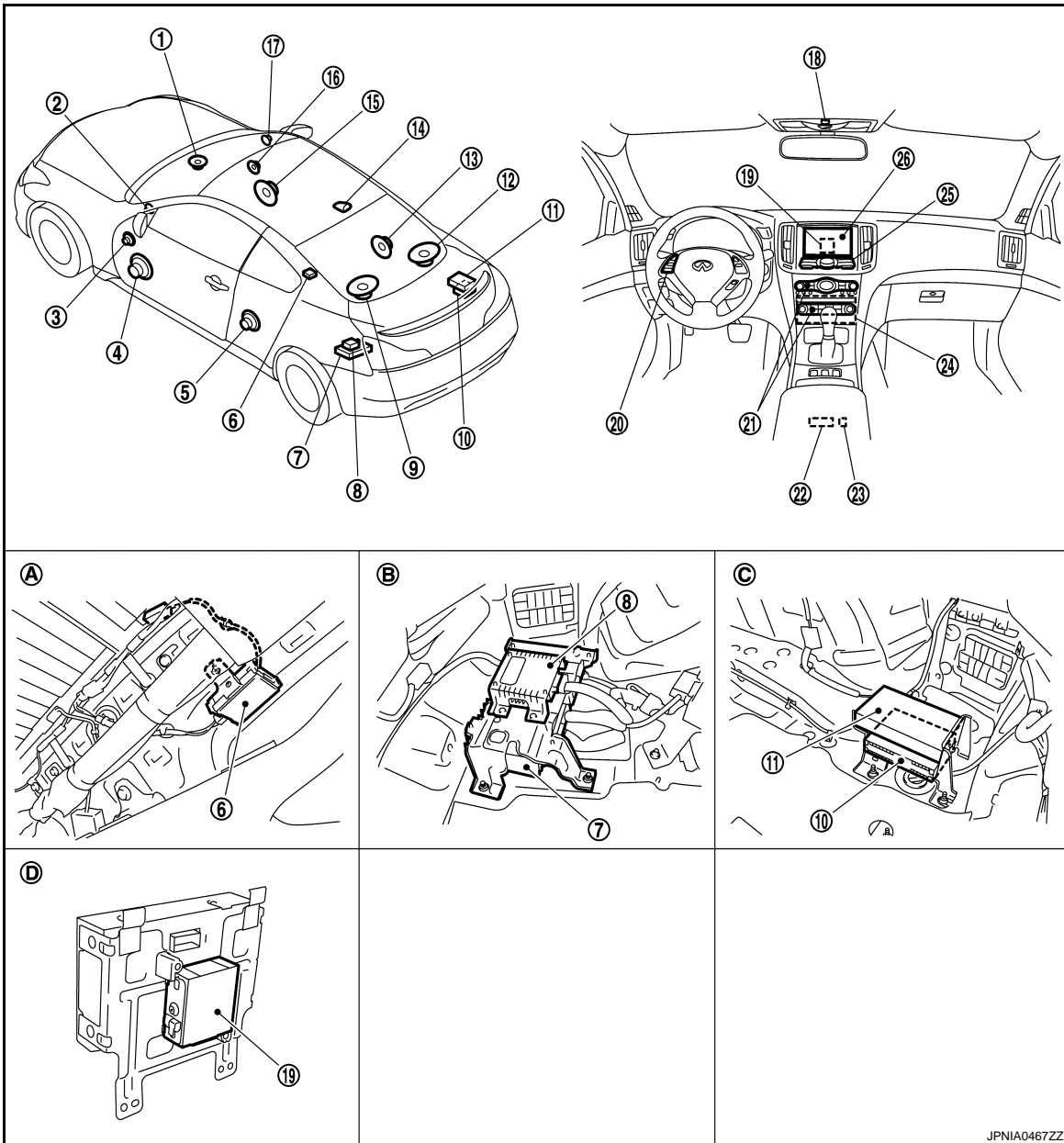
MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Component Parts Location

INFOID:000000001558985



- | | | |
|-----------------------------------|-----------------------------|---------------------|
| 1. Center speaker | 2. Tweeter LH | 3. Door squawker LH |
| 4. Door woofer LH | 5. Rear speaker LH | 6. Antenna amp. |
| 7. BOSE amp. | 8. Woofer amp. | 9. Rear woofer LH |
| 10. Satellite radio tuner | 11. TEL adapter unit | 12. Rear woofer RH |
| 13. Rear speaker RH | 14. Satellite radio antenna | 15. Door woofer RH |
| 16. Door squawker RH | 17. Tweeter RH | 18. Microphone |
| 19. iPod adapter | 20. Steering switch | 21. Preset switch |
| 22. Auxiliary input jacks | 23. iPod connector | 24. AV control unit |
| 25. Multifunction switch | 26. Display unit | |
| A. Within rear pillar finisher LH | B. Trunk room LH | C. Trunk room RH |
| D. Rear view of the display | | |

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MULTI AV SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

Component Description

INFOID:000000001558986

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

MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

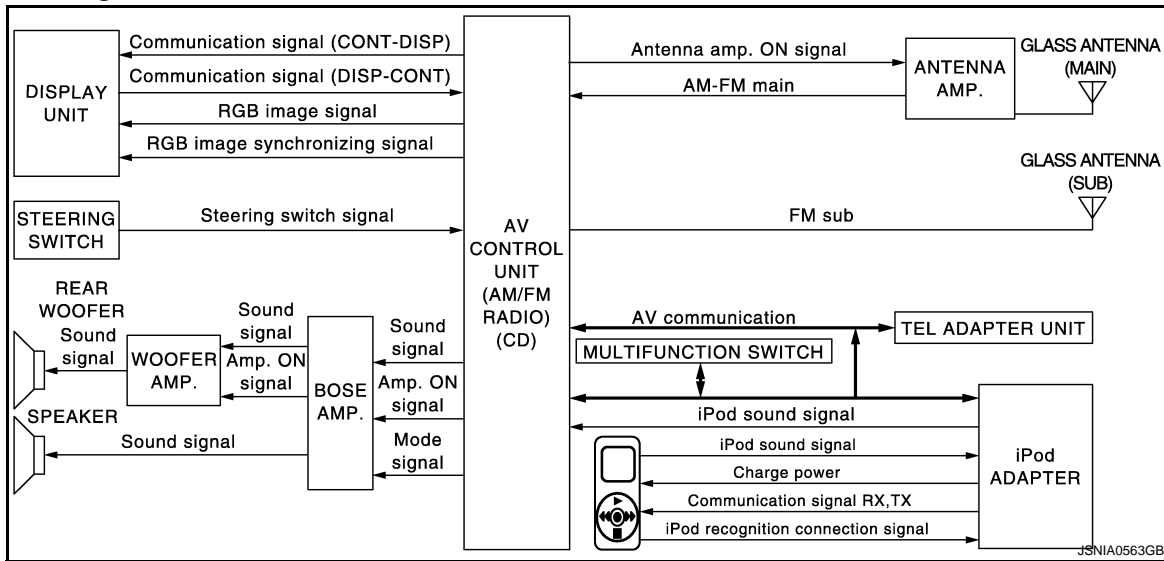
Part name	Description
TEL ADAPTER UNIT	<ul style="list-style-type: none"> • Inputs the TEL voice signal from TEL antenna and outputs it to the AV control unit. • It is connected with the AV control unit via AV communication and controlled with the AV control unit.
TEL ANTENNA	Receives the TEL voice signal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

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AV

AUDIO SYSTEM

System Diagram



INFOID:000000001558987

System Description

INFOID:000000001558988

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

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

FUNCTION DESCRIPTION

Operating signal

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

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

Screen display

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

AM/FM Radio Mode

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

CD Mode

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

iPod Connection

AUDIO SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

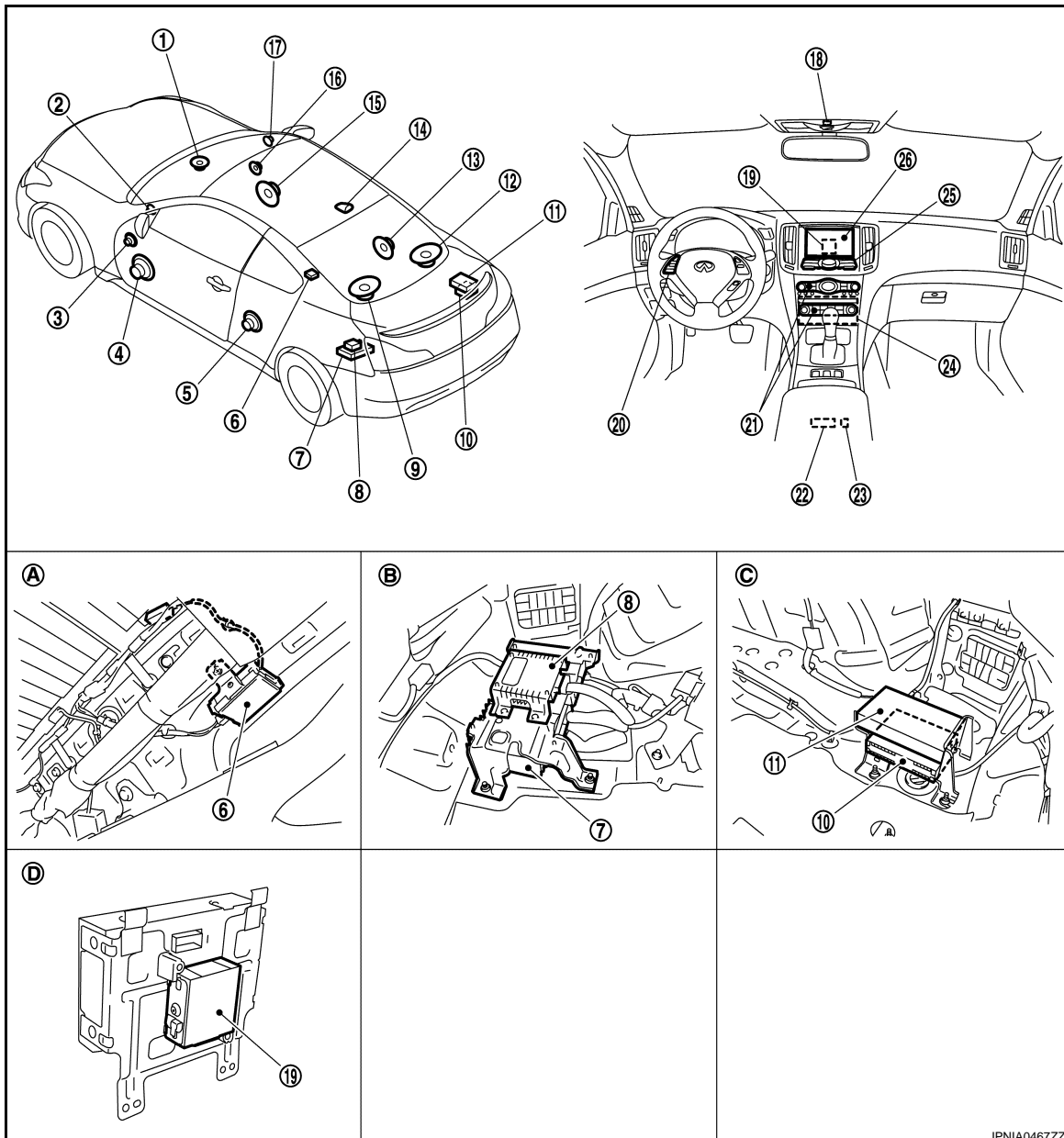
- Connect iPod® and iPod adapter with wire harness and iPod adapter input iPod sound signal from iPod®. When iPod mode is selected, iPod adapter output iPod sound signal to AV control unit. AV control unit output sound signal to BOSE amp., and BOSE amp. output sound signal to woofer amp. and each speaker.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

Driver's Audio Stage Mode

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

Component Parts Location

INFOID:000000001682964



JPNIA0467ZZ

AUDIO SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

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|-----------------------------------|-----------------------------|---------------------|
| 1. Center speaker | 2. Tweeter LH | 3. Door squawker LH |
| 4. Door woofer LH | 5. Rear speaker LH | 6. Antenna amp. |
| 7. BOSE amp. | 8. Woofer amp. | 9. Rear woofer LH |
| 10. Satellite radio tuner | 11. TEL adapter unit | 12. Rear woofer RH |
| 13. Rear speaker RH | 14. Satellite radio antenna | 15. Door woofer RH |
| 16. Door squawker RH | 17. Tweeter RH | 18. Microphone |
| 19. iPod adapter | 20. Steering switch | 21. Preset switch |
| 22. Auxiliary input jacks | 23. iPod connector | 24. AV control unit |
| 25. Multifunction switch | 26. Display unit | |
| A. Within rear pillar finisher LH | B. Trunk room LH | C. Trunk room RH |
| D. Rear view of the display | | |

Component Description

INFOID:000000001558990

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

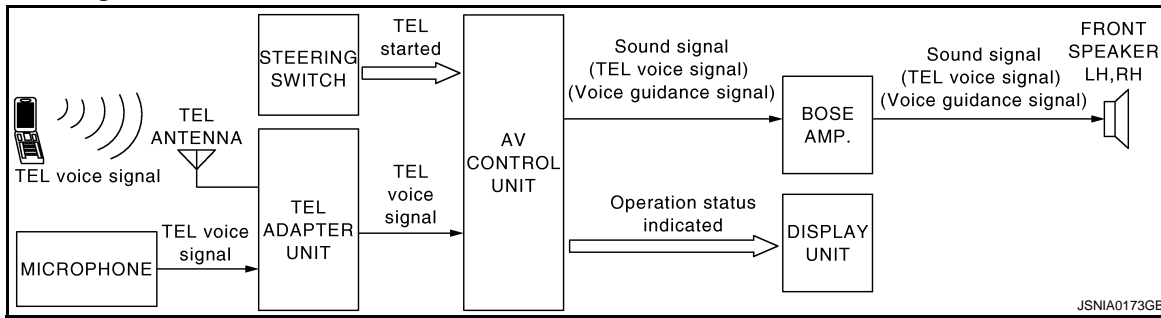
HANDS-FREE PHONE SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

HANDS-FREE PHONE SYSTEM

System Diagram



System Description

- TEL adapter unit is controlled with AV communication from AV control unit.
- The connection between portable telephone and TEL adapter unit is performed with Bluetooth®.
- The voice guidance signal is input from the TEL adapter unit to the AV control unit and output via BOSE amp. to the front speaker and center speaker when operating the TEL.
- TEL adapter unit has the on board self-diagnosis function. Refer to [AV-148. "Diagnosis Description"](#).

When receiving a call

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

When a call is transmitted

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

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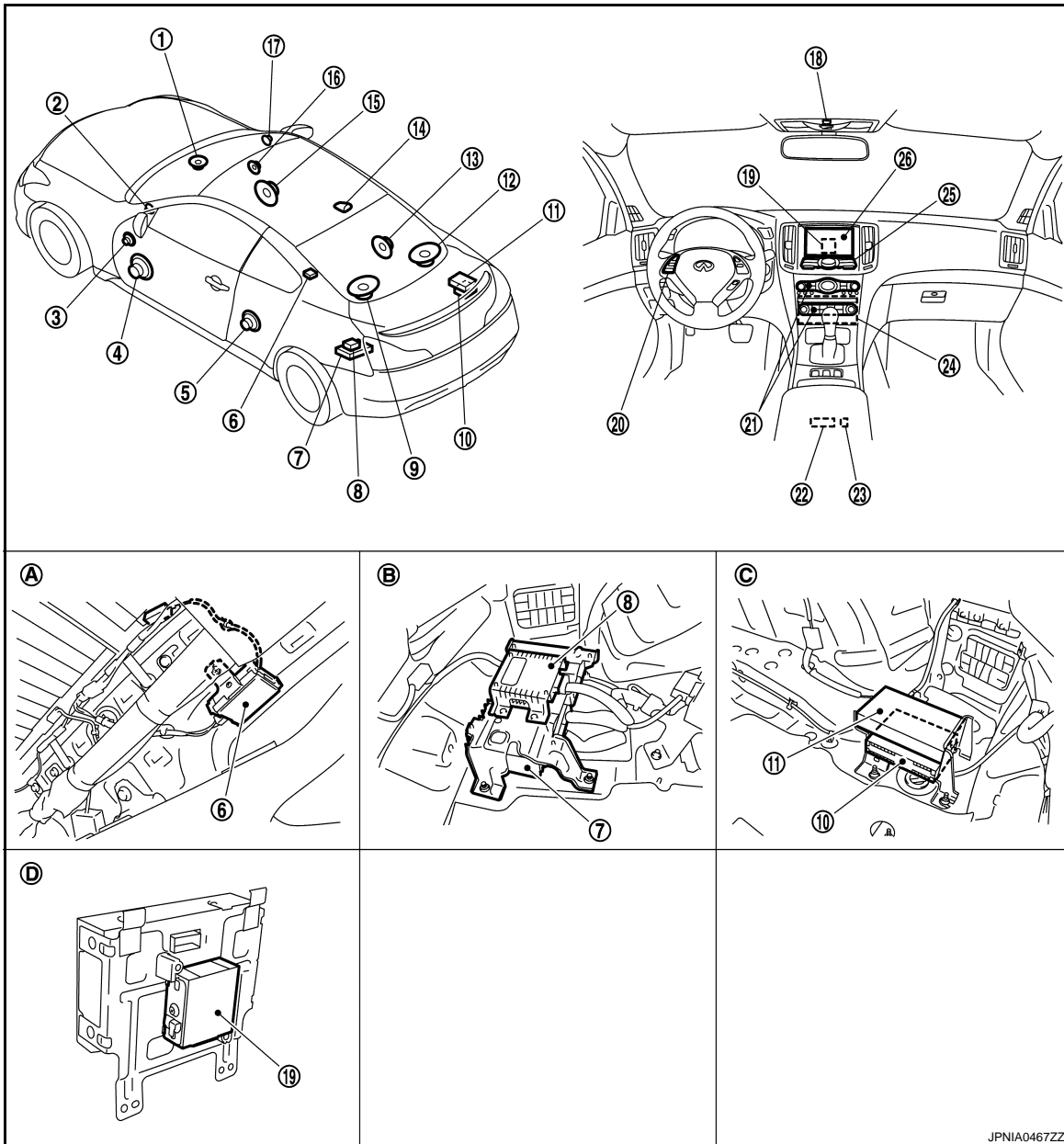
HANDS-FREE PHONE SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

Component Parts Location

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JPNIA0467ZZ

- | | | |
|-----------------------------------|-----------------------------|---------------------|
| 1. Center speaker | 2. Tweeter LH | 3. Door squawker LH |
| 4. Door woofer LH | 5. Rear speaker LH | 6. Antenna amp. |
| 7. BOSE amp. | 8. Woofer amp. | 9. Rear woofer LH |
| 10. Satellite radio tuner | 11. TEL adapter unit | 12. Rear woofer RH |
| 13. Rear speaker RH | 14. Satellite radio antenna | 15. Door woofer RH |
| 16. Door squawker RH | 17. Tweeter RH | 18. Microphone |
| 19. iPod adapter | 20. Steering switch | 21. Preset switch |
| 22. Auxiliary input jacks | 23. iPod connector | 24. AV control unit |
| 25. Multifunction switch | 26. Display unit | |
| A. Within rear pillar finisher LH | B. Trunk room LH | C. Trunk room RH |
| D. Rear view of the display | | |

HANDS-FREE PHONE SYSTEM

[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

Component Description

INFOID:000000001558994

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

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AV

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

Diagnosis Description

INFOID:000000001558995

MULTIFUNCTION SWITCH AND PRESET SWITCH SELF-DIAGNOSIS FUNCTION

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

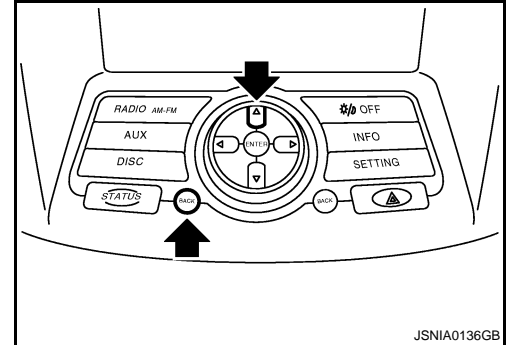
Self-diagnosis mode

- Press the “BACK” switch and the “UP” switch of the 4-direction switches within 10 seconds after turning the ignition switch from OFF to ACC and hold them for 3 seconds or more. The buzzer sounds, all indicators of the preset switch illuminate, and the self-diagnosis mode starts.

- The continuity of each switch at the ON position can be checked by pressing the switch. The buzzer sounds if the switch is normal.

CAUTION:

The hazard switch and CD eject switch cannot be checked.



Finishing self-diagnosis mode

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

MULTI AV SYSTEM ON BOARD DIAGNOSIS FUNCTION

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

ON BOARD DIAGNOSIS

Description

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

On board diagnosis item

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

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

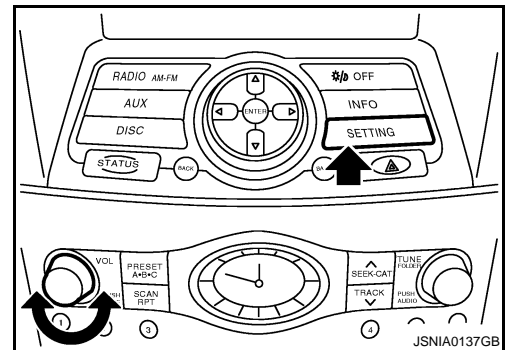
< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

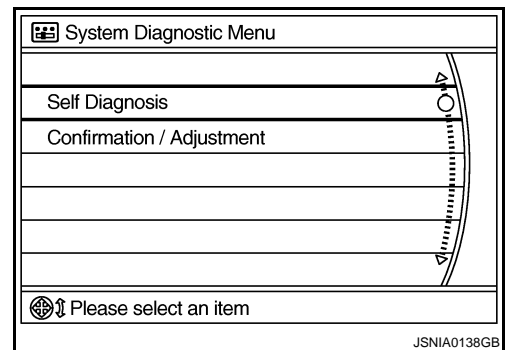
Mode	Description
Display Diagnosis	The confirmations of the tint with the color spectrum bar display and shading of color with the gradation bar display can be performed.
Vehicle Signals	Diagnosis of signals can be performed for vehicle speed, parking brake, lights, ignition switch, and reverse.
Speaker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

STARTING PROCEDURE

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

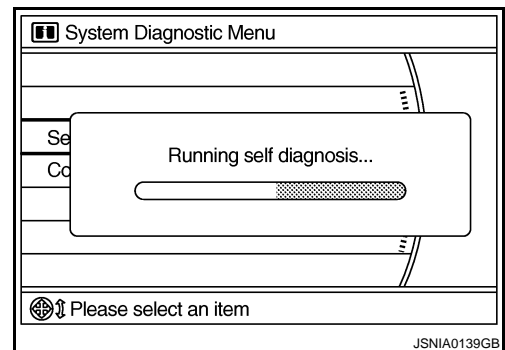


4. The trouble diagnosis initial screen is displayed, and then the items of “Self Diagnosis” and “Confirmation/Adjustment” can be selected.



SELF-DIAGNOSIS MODE

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



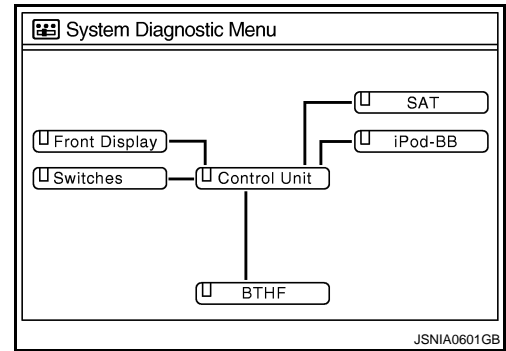
DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

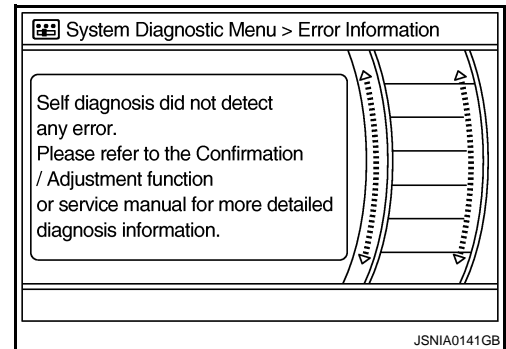
2. Diagnosis results are displayed after the self-diagnosis is completed. The unit names and the connection lines are color-coded according to the diagnostic results.

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



NOTE:

- Only the control unit (AV control unit) is displayed in red.
- Replace AV control unit if "Self-Diagnosis did not run because of a control unit malfunction" is indicated. The symptom is AV control unit internal error. Refer to [AV-343. "Exploded View"](#).
- If multiple errors occur at the same time for a single unit, the screen switch colors are determined according to the following order of priority: red > gray.
- The comments of the self-diagnosis results can be viewed with a component in the diagnosis result screen.



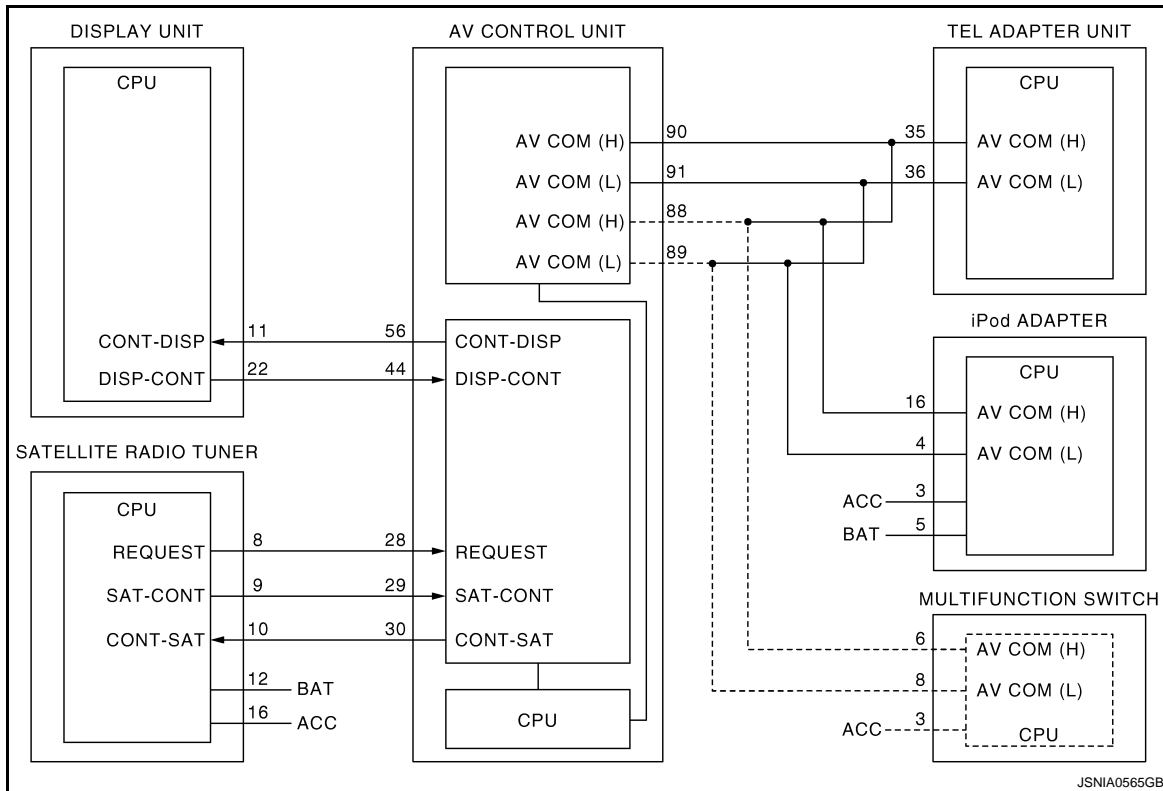
Detection range of self-diagnosis mode

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

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]



NOTE:

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

SELF-DIAGNOSIS RESULTS

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

Self-diagnosis result chart

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

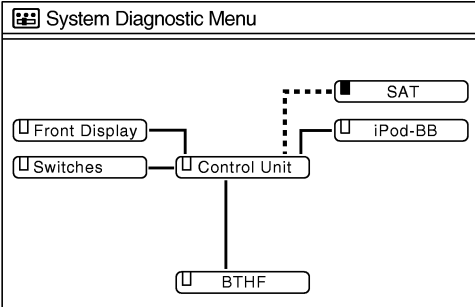
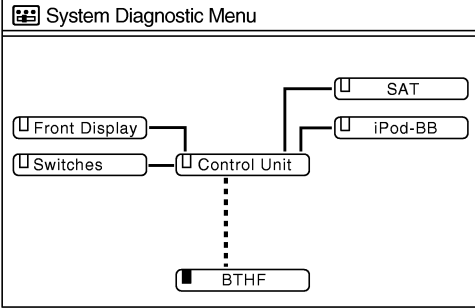
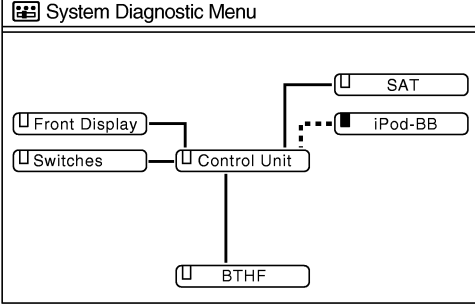
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DIAGNOSIS SYSTEM (AV CONTROL UNIT)

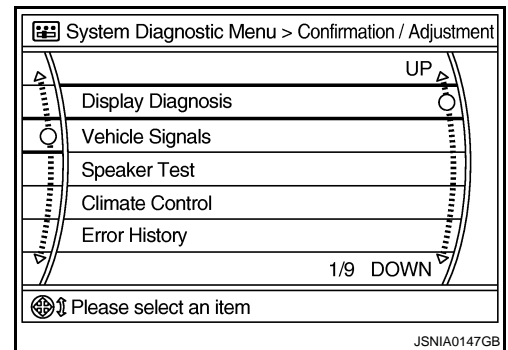
< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

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

CONFIRMATION/ADJUSTMENT MODE

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

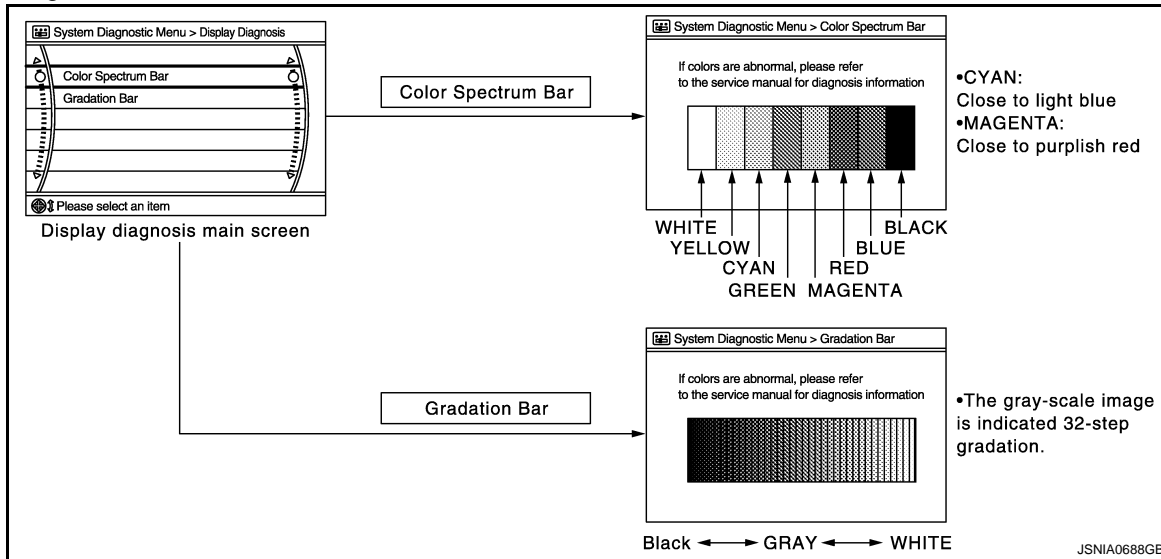


DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Display Diagnosis

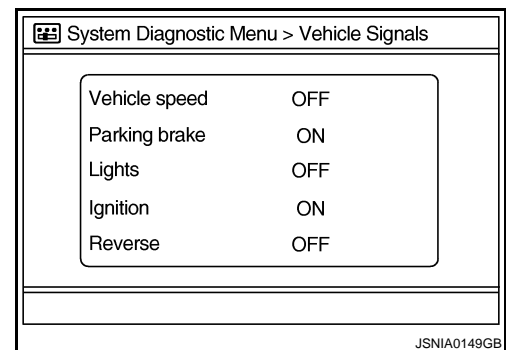


The tint of the color bar indication is as per the following list if RGB signal error is detected.

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

Vehicle Signals

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



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

Speaker Test

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BOSE AUDIO WITHOUT NAVIGATION]

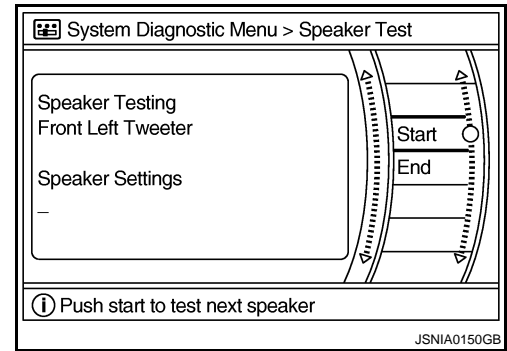
< FUNCTION DIAGNOSIS >

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

NOTE:

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

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



Climate Control

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

Error History

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

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

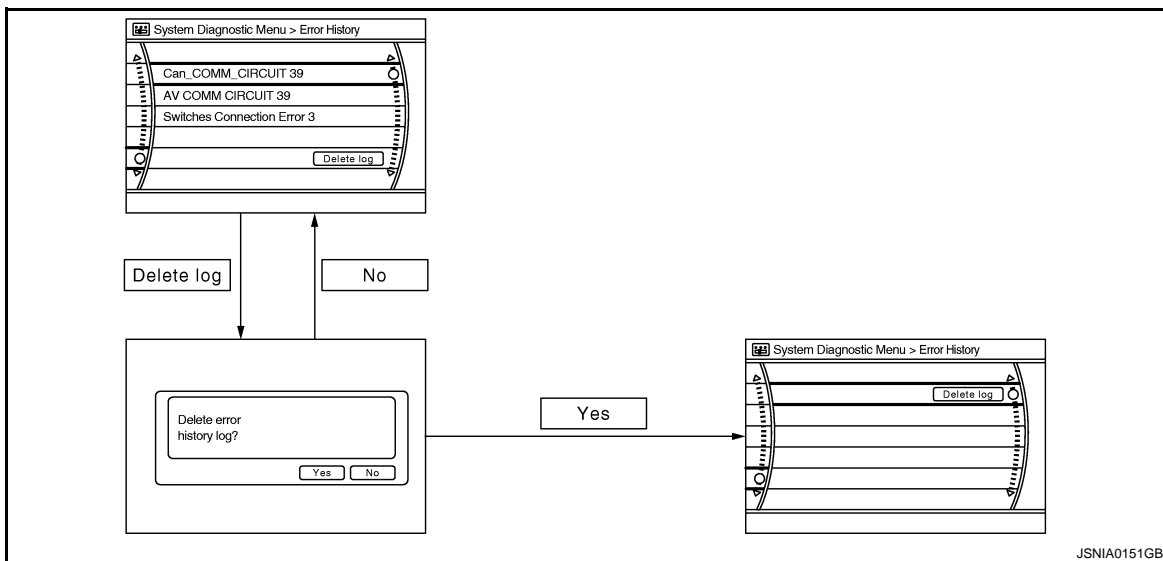
Count up method A

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

Count up method B

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

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



Error item

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

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take	A
CAN COMM CIRCUIT	CAN communication malfunction is detected.	Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results. Refer to AV-145, "CONSULT - III Function (MULTI AV)" .	B
CONTROL UNIT (CAN)	CAN initial diagnosis malfunction is detected.	Replace the AV control unit.	C
CONTROL UNIT (AV)	AV communication circuit initial diagnosis malfunction is detected.		D
FLASH-ROM Error Of Control Unit	AV control unit malfunction is detected.		E
CAN Controller Memory Error			F
Front Display Connection Error	<ul style="list-style-type: none"> • Display unit power supply and ground circuit malfunction is detected. • Malfunction is detected in communication circuit between AV control unit and display unit. • Malfunction is detected in communication signal between AV control unit and display unit. 	<ul style="list-style-type: none"> • Display unit power supply and ground circuit. • Communication circuit between AV control unit and display unit. 	G
SAT Connection Error	<ul style="list-style-type: none"> • Satellite radio tuner power supply and ground circuit malfunction is detected. • Malfunction is detected in communication circuit between AV control unit and satellite radio tuner. • Malfunction is detected in communication signal between AV control unit and satellite radio tuner. • Malfunction is detected in request signal circuit between AV control unit and satellite radio tuner. 	<ul style="list-style-type: none"> • Satellite radio tuner power supply and ground circuit. • Communication circuit between AV control unit and satellite radio tuner. • Request signal circuit between AV control unit and satellite radio tuner. 	H
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Switches Connection Error 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuit malfunction is detected. • Malfunction is detected in AV communication circuit between AV control unit and multifunction switch. • Malfunction is detected in AV communication signal between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuit. • AV communication circuit between AV control unit and multifunction switch. 	I
<ul style="list-style-type: none"> • AV COMM CIRCUIT • iPod Connection Error 	<ul style="list-style-type: none"> • iPod adapter unit power supply and ground circuit malfunction is detected. • Malfunction is detected in AV communication circuit between AV control unit and iPod adapter. • Malfunction is detected in AV communication signal between AV control unit and iPod adapter. 	<ul style="list-style-type: none"> • iPod adapter power supply and ground circuit. • AV communication circuit between AV control unit and iPod adapter unit. 	J
<ul style="list-style-type: none"> • AV COMM CIRCUIT • H/F Unit Connection Error 	<ul style="list-style-type: none"> • TEL adapter unit power supply and ground circuit malfunction is detected. • Malfunction is detected in AV communication circuit between AV control unit and TEL adapter unit. • Malfunction is detected in AV communication signal between AV control unit and TEL adapter unit. 	<ul style="list-style-type: none"> • TEL adapter unit power supply and ground circuit. • AV communication circuit between AV control unit and TEL adapter unit. 	K
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Switches Connection Error • iPod Unit Connection Error • H/F Unit Connection Error 	Malfunction is detected in AV communication circuit between AV control unit and the branch point multifunction switch and AV control unit.	AV communication circuit between AV control unit and the branch point multifunction switch and AV control unit.	L

AV

Vehicle CAN Diagnosis

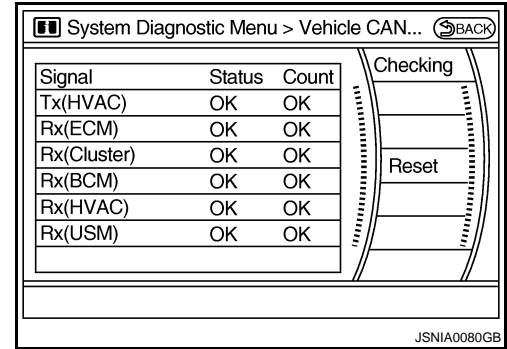
DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

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

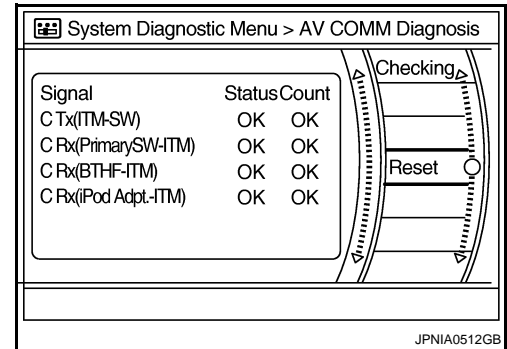
Items	Display (Current)	Malfunction counter (Past)
Tx (HVAC)	OK / UNKWN	OK / 0 - 39
Rx (ECM)	OK / UNKWN	OK / 0 - 39
Rx (Cluster)	OK / UNKWN	OK / 0 - 39
Rx (BCM)	OK / UNKWN	OK / 0 - 39
Rx (HVAC)	OK / UNKWN	OK / 0 - 39
Rx (USM)	OK / UNKWN	OK / 0 - 39



AV COMM Diagnosis

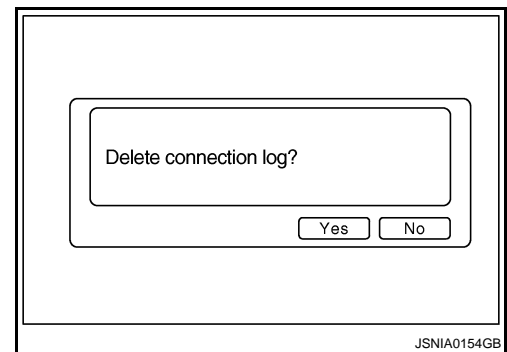
- Displays the communication status between AV control unit (master unit) and each unit.
- The error counter displays “OK” if any malfunction was not detected in the past and displays “0” if a malfunction is detected. It increases by 1 if the condition is normal at the next ignition switch ON cycle.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

Items	Status (Current)	Counter (Past)
C Tx(ITM-SW)	OK / UNKWN	OK / 0 - 39
C Rx(PrimarySW-ITM)	OK / UNKWN	OK / 0 - 39
C Rx(BTHF-ITM)	OK / UNKWN	OK / 0 - 39
C Rx(iPod Adpt.-ITM)	OK / UNKWN	OK / 0 - 39



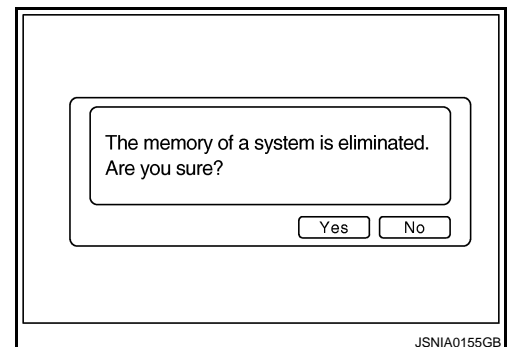
Delete Unit Connection Log

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



Initialize Settings

Initializes the AV control unit memory.



DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

CONSULT - III Function (MULTI AV)

INFOID:000000001558996

CONSULT-III functions

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

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

AV COMMUNICATION

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

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

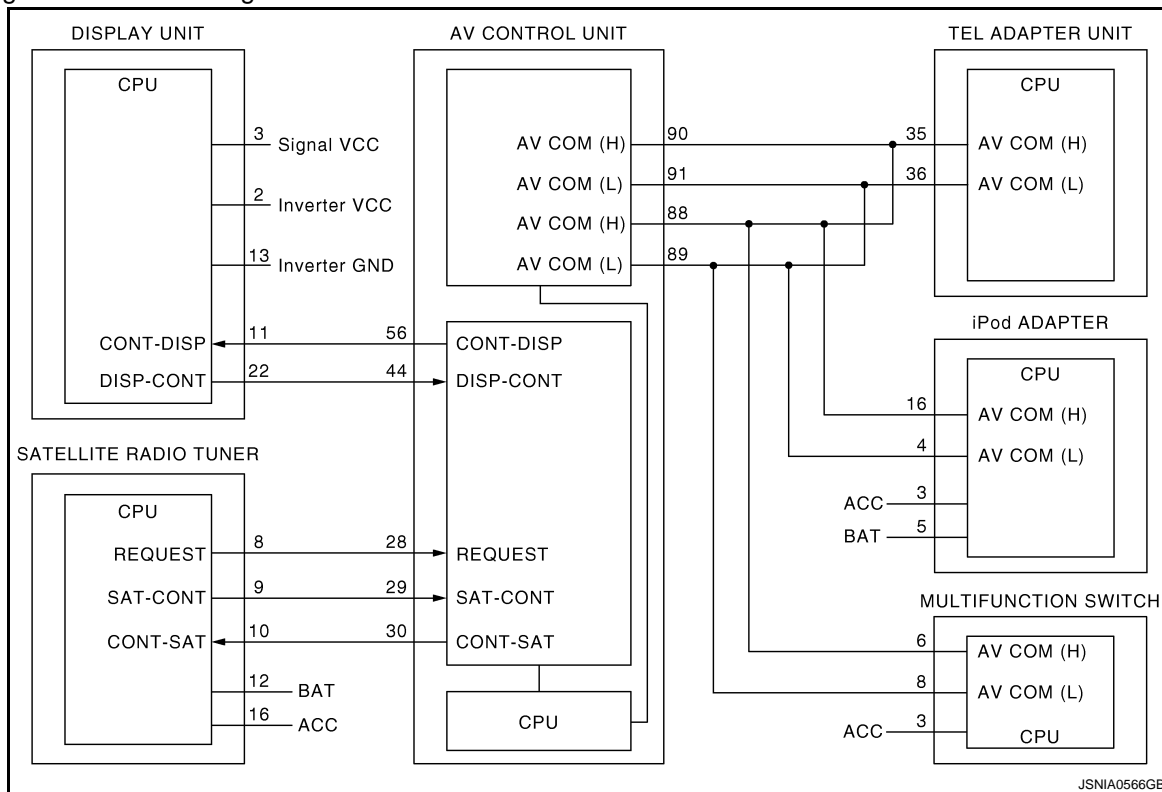
ECU IDENTIFICATION

The part number of AV control unit is displayed.

SELF DIAGNOSIS RESULT

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

Self-diagnosis detection range



Self-diagnosis results display item

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
CAN COMM CIRCUIT [U1000]	CAN communication malfunction is detected.	Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results. Refer to AV-145, "CONSULT - III Function (MULTI AV)" .
CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.	Replace the AV control unit
CONTROL UNIT (AV) [U1310]	AV communication circuit initial diagnosis malfunction is detected.	
Control Unit FLASH-ROM [U1200] CAN CONT [U1216]	AV control unit malfunction is detected.	
FRONT DISP CONN [U1243]	<ul style="list-style-type: none"> • Display unit power supply and ground circuit malfunction is detected. • Malfunction is detected in communication circuit between AV control unit and display unit. • Malfunction is detected in communication signal between AV control unit and display unit. 	<ul style="list-style-type: none"> • Display unit power supply and ground circuit. • Communication circuit between AV control unit and display unit.
SAT CONN [U1255]	<ul style="list-style-type: none"> • Satellite radio tuner power supply and ground circuit malfunction is detected. • Malfunction is detected in communication signal between AV control unit and satellite radio tuner. • Malfunction is detected in communication circuit between AV control unit and satellite radio tuner. • Malfunction is detected in request signal circuit between AV control unit and satellite radio tuner. 	<ul style="list-style-type: none"> • Satellite radio tuner power supply and ground circuit. • Communication circuit between AV control unit and satellite radio tuner. • Request signal circuit between AV control unit and satellite radio tuner.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuit malfunction is detected. • Malfunction is detected in AV communication circuit between AV control unit and multifunction switch. • Malfunction is detected in AV communication signal between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuit. • AV communication circuit between AV control unit and multifunction switch.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • iPod CONN [U1254] 	<ul style="list-style-type: none"> • iPod adapter power supply and ground circuit malfunction is detected. • Malfunction is detected in AV communication circuit between AV control unit and iPod adapter. • Malfunction is detected in AV communication signal between AV control unit and iPod adapter. 	<ul style="list-style-type: none"> • iPod adapter power supply and ground circuit. • AV communication circuit between AV control unit and iPod adapter.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • HAND FREE CONN [U1256] 	<ul style="list-style-type: none"> • TEL adapter unit power supply and ground circuit malfunction is detected. • Malfunction is detected in AV communication circuit between AV control unit and TEL adapter unit. • Malfunction is detected in AV communication signal between AV control unit and TEL adapter unit. 	<ul style="list-style-type: none"> • TEL adapter unit power supply and ground circuit. • AV communication circuit between TEL adapter unit and AV control unit.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • iPod CONN [U1254] • HAND FREE CONN [U1256] 	Malfunction is detected in AV communication circuit between AV control unit and the branch point multifunction switch and AV control unit.	AV communication circuit between AV control unit and the branch point multifunction switch and AV control unit.

DATA MONITOR

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

ALL SIGNALS

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

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

SELECTION FROM MENU

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

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

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AV

DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

Diagnosis Description

INFOID:000000001558997

HANDS-FREE PHONE SYSTEM ON BOARD DIAGNOSIS

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

On board diagnosis item

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

CAUTION:

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

STEP	MODE	Description
STEP1	Self-diagnosis	The self-diagnosis mode performs the microphone test and the diagnosis of TEL adapter unit, TEL antenna and steering unit, and then reads out the results with the sound and indicates them on the display.
STEP2	Speaker adaptation data deleting	The speaker adaptation data deleting mode can delete the speaker adaptation data.
	Hands-free phone system initialization	Hands-free phone system initialization mode can perform the initialization of hands-free phone system.

Self-diagnosis results

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

NOTE:

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

Self-diagnosis results

DTC	DTC name	Possible causes
DTC 10000	INTERNAL FAILURE	TEL adapter unit
DTC 01000	ANT. SHORT TO BATT OR OPEN	TEL antenna
DTC 00100	ANT. SHORT TO GROUND	
DTC 00010	STEERING REMOTE BUTTON STUCK A	Steering switch
DTC 00001	STEERING REMOTE BUTTON STUCK B	
DTC 00000	THERE ARE NO FAILURE RECORDS TO REPORT	—

The details of error count

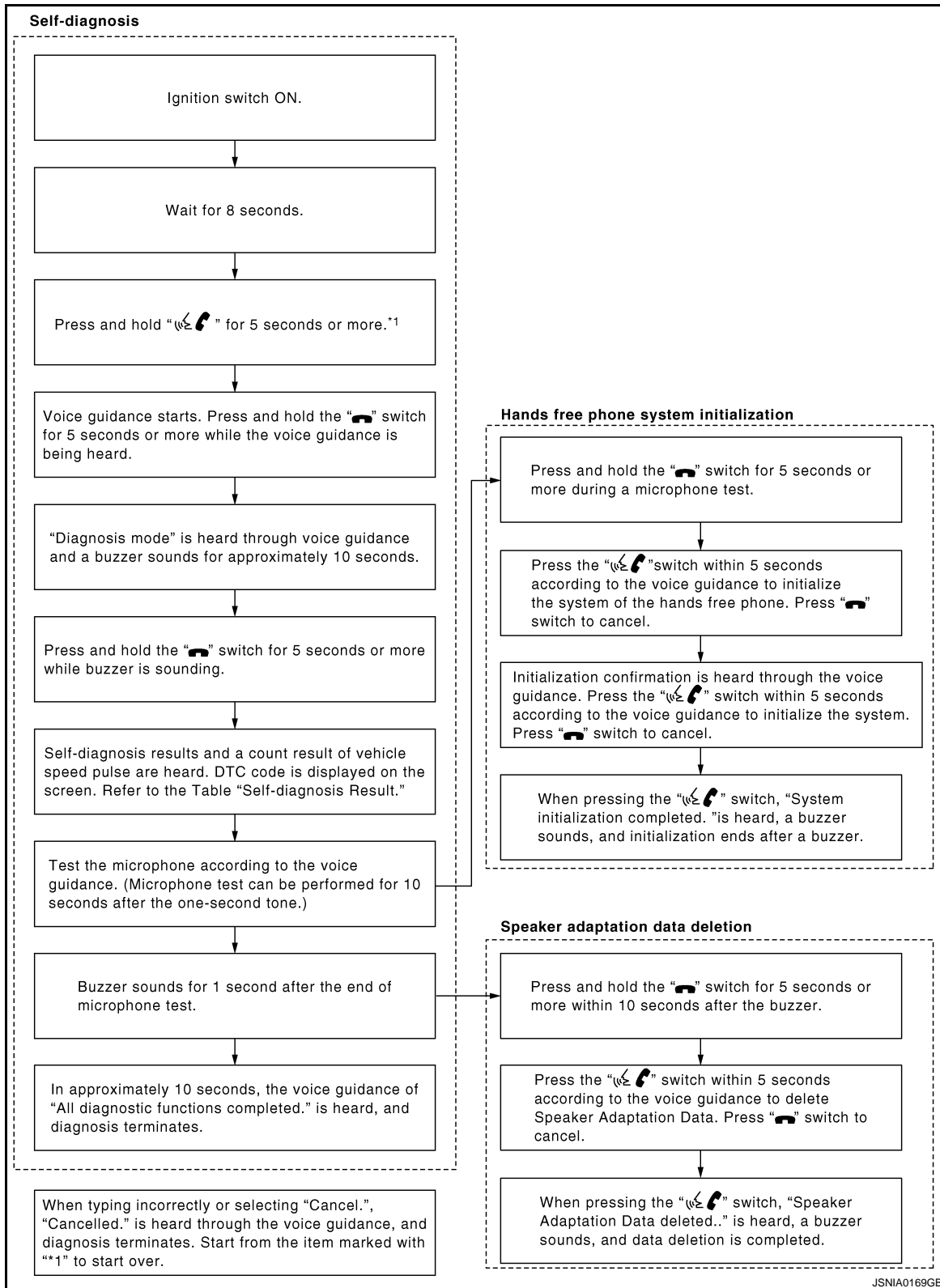
The error count guides "0" when the error occurs. The next time it counts up "1" if it is normal with the ignition switch ON. It continues the count up unless the initialization of hands-free phone system is performed.

DIAGNOSIS SYSTEM (TEL ADAPTER UNIT)

[BOSE AUDIO WITHOUT NAVIGATION]

< FUNCTION DIAGNOSIS >

FLOW CHART OF TROUBLE DIAGNOSIS



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U1000 CAN COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:000000001559231

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

CAN Communication Signal Chart. Refer to [LAN-25, "CAN System Specification Chart"](#).

DTC Logic

INFOID:000000001559232

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:000000001559233

1. PERFORM SELF-DIAGNOSTIC

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

Is "CAN COMM CIRCUIT" displayed?

- YES >> Refer to "LAN system". Refer to [LAN-16, "Trouble Diagnosis Flow Chart"](#).
NO >> Refer to GI section. Refer to [GI-38, "Intermittent Incident"](#).

U1010 CONTROL UNIT (CAN)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

U1010 CONTROL UNIT (CAN)

Description

INFOID:000000001559241

Initial diagnosis of AV control unit.

DTC Logic

INFOID:000000001559242

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:000000001559243

1. REPLACE AV CONTROL UNIT

When DTC U1010 is detected, replace AV control unit.

>> INSPECTION END

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U1310 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

U1310 AV CONTROL UNIT

Description

INFOID:000000001559004

Replace the AV control unit if this DTC is displayed. Refer to [AV-343, "Exploded View"](#).

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

DTC Logic

INFOID:000000001559005

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

U1200 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

U1200 AV CONTROL UNIT

Description

INFOID:000000001559006

Replace the AV control unit if this DTC is displayed. Refer to [AV-343, "Exploded View"](#).

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

DTC Logic

INFOID:000000001559007

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

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U1216 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

U1216 AV CONTROL UNIT

Description

INFOID:000000001559008

Replace the AV control unit if this DTC is displayed. Refer to [AV-343, "Exploded View"](#).

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

DTC Logic

INFOID:000000001559009

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

U1243 DISPLAY UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

U1243 DISPLAY UNIT

Description

INFOID:000000001559010

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

DTC Logic

INFOID:000000001559011

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

Diagnosis Procedure

INFOID:000000001559012

1. CHECK DISPLAY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check display unit power supply and ground circuit. Refer to [AV-160, "DISPLAY UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

2. CHECK CONTINUITY COMMUNICATION CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminals 11, 22 and AV control unit harness connector terminals 56, 44.

11 - 56 : Continuity should exist.

22 - 44 : Continuity should exist.

4. Check continuity between display unit harness connector terminals 11, 22 and ground.

11, 22 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK COMMUNICATION SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 11 and ground.

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U1243 DISPLAY UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< COMPONENT DIAGNOSIS >

Terminal	Condition		Reference value
11 - Ground	Ignition switch ON	When adjusting display brightness.	

Is the inspection result normal?

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

4.CHECK COMMUNICATION SIGNAL

Check signal between display unit harness connector terminal 22 and ground.

Terminal	Condition		Reference value
22 - Ground	Ignition switch ON	When adjusting display brightness.	

Is the inspection result normal?

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

U1255 SATELLITE RADIO TUNER

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

U1255 SATELLITE RADIO TUNER

Description

INFOID:000000001559282

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

DTC Logic

INFOID:000000001559283

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

Diagnosis Procedure

INFOID:000000001559284

1. CHECK SATELLITE RADIO TUNER POWER SUPPLY AND GROUND CIRCUIT

Check satellite radio tuner power supply and ground circuit. Refer to [AV-164, "SATELLITE RADIO TUNER : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

2. CHECK CONTINUITY COMMUNICATION CIRCUIT AND REQUEST SIGNAL CIRCUIT

- Turn ignition switch OFF.
- Disconnect AV control unit connector and satellite radio tuner connector.
- Check continuity between AV control unit harness connector terminals 28, 29, 30 and satellite radio tuner harness connector terminals 8, 9, 10.

28 - 8 : Continuity should exist.

29 - 9 : Continuity should exist.

30 - 10 : Continuity should exist.

- Check continuity between AV control unit harness connector terminals 28, 29 and 30.

28 - Ground : Continuity should not exist.

29 - Ground : Continuity should not exist.

30 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK AV CONTROL UNIT VOLTAGE

- Connect AV control unit connector.
- Turn ignition switch ON.
- Check voltage between AV control unit harness connector terminal 28, 29 and ground.

U1255 SATELLITE RADIO TUNER

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

28 - Ground : Approx 7.5 V

29 - Ground : Approx 7.0 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

4.CHECK SATELLITE RADIO TUNER

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector.
3. Connect satellite radio tuner.
4. Turn ignition switch ON.
5. Check voltage between satellite radio tuner harness connector terminal 10 and ground.

10 - Ground : Approx 7.0 V

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace satellite radio tuner.

U1300 AV COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

U1300 AV COMM CIRCUIT

Description

INFOID:000000001559016

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

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1300 U1240	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] SWITCH CONN [U1240] 	<ul style="list-style-type: none"> Multifunction switch power supply and ground circuit malfunction is detected. Malfunction is detected in AV communication circuit between AV control unit and multifunction switch. Malfunction is detected in AV communication signal between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> Multifunction switch power supply and ground circuits. AV communication circuit between AV control unit and multifunction switch.
U1300 U1254	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] iPod CONN [U1254] 	<ul style="list-style-type: none"> iPod adapter power supply and ground circuit malfunction is detected. Malfunction is detected in AV communication circuit between AV control unit and iPod adapter. A malfunction is detected in AV communication signal between AV control unit and iPod adapter. 	<ul style="list-style-type: none"> iPod adapter power supply and ground circuits. AV communication circuit between AV control unit and iPod adapter.
U1300 U1256	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] HAND FREE CONN [U1256] 	<ul style="list-style-type: none"> TEL adapter unit power supply and ground circuit malfunction is detected. Malfunction is detected in AV communication circuit between AV control unit and TEL adapter unit. Malfunction is detected in AV communication signal between AV control unit and TEL adapter unit. 	<ul style="list-style-type: none"> TEL adapter unit power supply and ground circuit. AV communication circuit between AV control unit and TEL adapter unit.
U1300 U1240 U1254 U1256	<ul style="list-style-type: none"> AV COMM CIRCUIT [U1300] SWITCH CONN [U1240] iPod CONN [U1254] HAND FREE CONN [U1256] 	<p>Malfunction is detected in AV communication circuit between AV control unit and the branch point multifunction switch and AV control unit.</p>	<p>AV communication circuit between AV control unit and the branch point multifunction switch and AV control unit.</p>

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

POWER SUPPLY AND GROUND CIRCUIT

AV CONTROL UNIT

AV CONTROL UNIT : Diagnosis Procedure

INFOID:000000001559017

1.CHECK FUSE

Check for blown fuses.

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

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between AV control unit harness connectors and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	M81	19	OFF	12 V
ACC power supply	M81	7	ACC	12 V
Ignition signal	M85	104	ON	12 V

Is the inspection result normal?

YES >> GO TO 3.

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

3.CHECK GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

DISPLAY UNIT

DISPLAY UNIT : Diagnosis Procedure

INFOID:000000001559018

1.CHECK POWER SUPPLY CIRCUIT (DISPLAY SIDE)

Check voltage between display unit harness connector and ground.

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

2.CHECK POWER SUPPLY CIRCUIT (CONTINUITY)

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

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

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

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replacement of AV control unit.

4.CHECK GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

MULTIFUNCTION SWITCH

MULTIFUNCTION SWITCH : Diagnosis Procedure

INFOID:000000001559287

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Ignition switch ACC or ON	19

Is the inspection result normal?

YES >> GO TO 2.

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

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between multifunction switch harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
ACC power supply	M72	3	ACC	12 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between multifunction switch and fuse.

3.CHECK GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

BOSE AMP.

BOSE AMP. : Diagnosis Procedure

INFOID:000000001559289

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	5, 8

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between BOSE amp. harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	B42	10	OFF	12 V
		11		

Is the inspection result normal?

YES >> GO TO 3.

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

3.CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B42	7	OFF	Existed
		12		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

WOOFER AMP.

WOOFER AMP. : Diagnosis Procedure

INFOID:000000001678966

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	34

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between woofer amp. harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	B43	7	OFF	12 V

Is the inspection result normal?

YES >> GO TO 3.

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

3.CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B43	10	OFF	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

iPod ADAPTER

iPod ADAPTER : Diagnosis Procedure

INFOID:000000001678969

1.CHECK FUSE

Check for blown fuses.

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

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between iPod adapter harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	M111	5	OFF	12 V
ACC power supply	M111	3	ACC	12 V

Is the inspection result normal?

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

YES >> INSPECTION END
NO >> Check harness between iPod adapter and fuse.

SATELLITE RADIO TUNER

SATELLITE RADIO TUNER : Diagnosis Procedure

INFOID:000000001559290

1.CHECK FUSE

Check for blown fuses.

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

Is the inspection result normal?

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between satellite radio tuner harness connector and ground.

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

Is the inspection result normal?

YES >> GO TO 3.
NO >> Check harness between satellite radio tuner and fuse.

3.CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B236	15	OFF	Existed

Is the inspection result normal?

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

TEL ADAPTER UNIT

TEL ADAPTER UNIT : Diagnosis Procedure

INFOID:000000001559021

1.CHECK FUSE

Check for blown fuses.

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

Is the inspection result normal?

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

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between TEL adapter unit harness connector and ground.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	B237	1	OFF	12 V
ACC power supply	B237	2	ACC	12 V
Ignition signal	B237	3	ON	12 V

Is the inspection result normal?

YES >> GO TO 3.

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

3.CHECK GROUND CIRCUIT

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

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B237	4, 14, 19, 22, 24	OFF	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

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RGB (R: RED) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

RGB (R: RED) SIGNAL CIRCUIT

Description

INFOID:000000001559024

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

Diagnosis Procedure

INFOID:000000001559025

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

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 17 and AV control unit harness connector terminal 40.

17 - 40 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 17 and ground.

17 - Ground : Continuity should not exist.

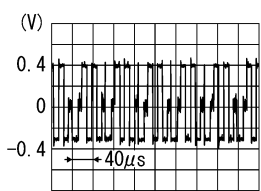
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK RGB (R: RED) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 17 and ground.

Terminal	Condition	Reference value
17 - Ground	Ignition switch ON Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 SKIB2238J

Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

RGB (G: GREEN) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

RGB (G: GREEN) SIGNAL CIRCUIT

Description

INFOID:000000001559026

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

Diagnosis Procedure

INFOID:000000001559153

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

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 6 and AV control unit harness connector terminal 39.

6 - 39 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 6 and ground.

6 - Ground : Continuity should not exist.

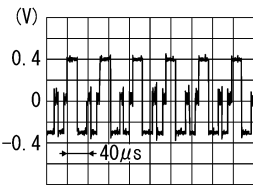
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK RGB (G: GREEN) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 6 and ground.

Terminal	Condition		Reference value
6 - Ground	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 SKIB2236J

Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

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RGB (B: BLUE) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

RGB (B: BLUE) SIGNAL CIRCUIT

Description

INFOID:000000001559028

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

Diagnosis Procedure

INFOID:000000001559029

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

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 18 and AV control unit harness connector terminal 38.

18 - 38 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 18 and ground.

18 - Ground : Continuity should not exist.

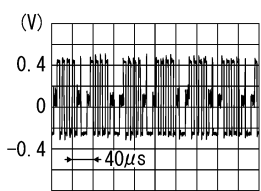
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK RGB (B: BLUE) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 18 and ground.

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

Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

RGB SYNCHRONIZING SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

RGB SYNCHRONIZING SIGNAL CIRCUIT

Description

INFOID:000000001559030

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

Diagnosis Procedure

INFOID:000000001559031

1. CHECK CONTINUITY RGB SYNCHRONIZING SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 19 and AV control unit harness connector terminal 41.

19 - 41 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 19 and ground.

19 - Ground : Continuity should not exist.

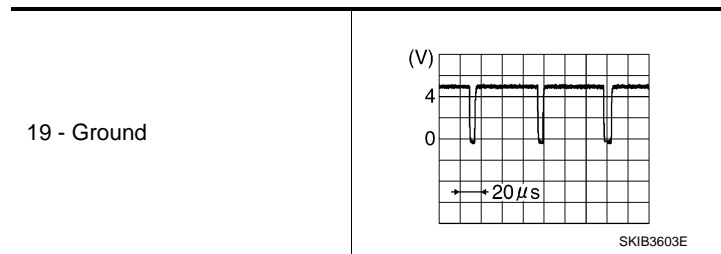
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK RGB SYNCHRONIZING SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 19 and ground.



Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

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RGB AREA (YS) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

RGB AREA (YS) SIGNAL CIRCUIT

Description

INFOID:000000001559032

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

Diagnosis Procedure

INFOID:000000001559033

1. CHECK CONTINUITY RGB AREA (YS) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 9 and AV control unit harness connector terminal 43.

9 - 43 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 9 and ground.

9 - Ground : Continuity should not exist.

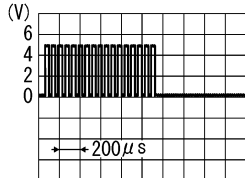
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK RGB AREA (YS) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 9 and ground.

Terminal	Condition		Reference value
9 - Ground	Ignition switch ON	At RGB image is displayed	: Approx. 5 V
		At AUX image is displayed	 <p style="text-align: right;">PKIB4948J</p>

Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

Description

INFOID:000000001559034

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

Diagnosis Procedure

INFOID:000000001559035

1. CHECK CONTINUITY HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 8 and AV control unit harness connector terminal 45.

8 - 45 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 8 and ground.

8 - Ground : Continuity should not exist.

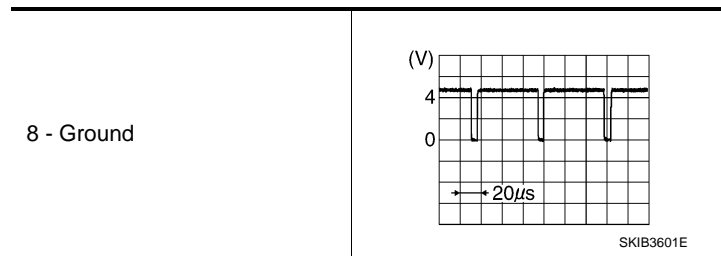
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK HORIZONTAL SYNCHRONIZING (HP) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 8 and ground.



Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace display unit.

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VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

Description

INFOID:000000001559036

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

Diagnosis Procedure

INFOID:000000001559037

1. CHECK CONTINUITY VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 20 and AV control unit harness connector terminal 57.

20 - 57 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 20 and ground.

20 - Ground : Continuity should not exist.

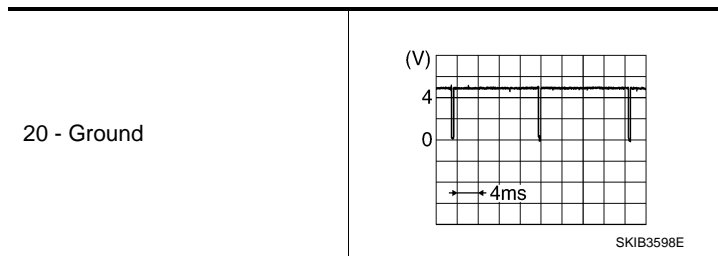
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK VERTICAL SYNCHRONIZING (VP) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 20 and ground.



Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace display unit.

AUX IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

AUX IMAGE SIGNAL CIRCUIT

Description

INFOID:000000001559038

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

Diagnosis Procedure

INFOID:000000001559039

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

1. Turn ignition switch OFF.
2. Disconnect auxiliary input jacks connector and AV control unit connector.
3. Check continuity between auxiliary input jacks harness connector terminal 7 and AV control unit harness connector terminal 66.

7 - 66 : Continuity should exist.

4. Check continuity between auxiliary input jacks harness connector terminal 7 and ground.

7 - Ground : Continuity should not exist.

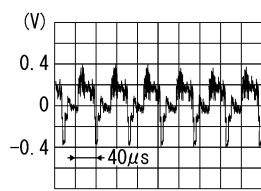
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

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

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between auxiliary input jacks harness connector terminal 7 and ground.

Terminal	Condition	Reference value
7 - Ground	Ignition switch ON At AUX image is displayed.	 SKIB2251J

Is the inspection result normal?

YES >> GO TO 3.

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

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

1. Turn ignition switch OFF.
2. Disconnect auxiliary input jacks connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 15 and AV control unit harness connector terminal 36.

15 - 36 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 15 and ground.

15 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair harness or connector.

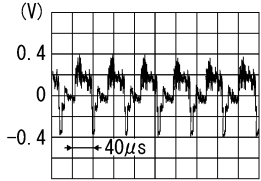
4. CHECK AUX IMAGE SIGNAL

AUX IMAGE SIGNAL CIRCUIT

[BOSE AUDIO WITHOUT NAVIGATION]

< COMPONENT DIAGNOSIS >

1. Connect AV control unit connector and display unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 15 and ground.

Terminal	Condition		Reference value
15 - Ground	Ignition switch ON	At AUX image is displayed.	 <p>SKIB2251J</p>

Is the inspection result normal?

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

CD EJECT SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

CD EJECT SIGNAL CIRCUIT

Description

INFOID:000000001559040

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

Diagnosis Procedure

INFOID:000000001559041

1. CHECK CONTINUITY CD EJECT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect multifunction switch connector and AV control unit connector.
3. Check continuity between multifunction switch harness connector terminal 14 and AV control unit harness connector terminal 103.

14 - 103 : Continuity should exist.

4. Check continuity between multifunction switch harness connector terminal 14 and ground.

14 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK AV CONTROL UNIT VOLTAGE

1. Connect multifunction switch connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector terminal 103 and ground.

**103 - Ground Except for above
: Approx. 3.3 V**

Is the inspection result normal?

YES >> Replace preset switch.

NO >> Replace AV control unit.

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MICROPHONE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

MICROPHONE SIGNAL CIRCUIT

Description

INFOID:000000001559042

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

Diagnosis Procedure

INFOID:000000001559043

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 terminals 7, 8, 29 and microphone harness connector terminals 1, 2, 4.

7 - 1 : Continuity should exist.

8 - 2 : Continuity should exist.

29 - 4 : Continuity should exist.

4. Check continuity between TEL adapter unit harness connector terminals 7, 29 and ground.

7, 29 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK VOLTAGE MICROPHONE VCC

1. Connect TEL adapter unit connector.
2. Turn ignition switch ON.
3. Check voltage between TEL adapter unit harness connector terminal 29 and 8.

29 - 8 : Approx. 5 V

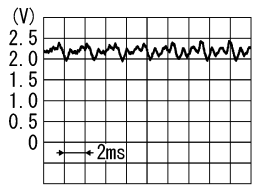
Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace TEL adapter unit.

3. CHECK MICROPHONE SIGNAL

1. Connect microphone connector.
2. Check signal between TEL adapter unit harness connector terminals 7 and 8.

Terminal	Condition		Reference value
7 - 8	Ignition switch ON	Give a voice	 PKIB5037J

Is the inspection result normal?

YES >> Replace TEL adapter unit.

NO >> Replace microphone.

CONTROL SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

CONTROL SIGNAL CIRCUIT

Description

INFOID:000000001559044

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

Diagnosis Procedure

INFOID:000000001559045

1. CHECK CONTINUITY CONTROL SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect TEL adapter unit connector.
3. Check continuity between TEL adapter unit harness connector terminals 23, 24 and ground.

23, 24 - Ground : Continuity should exist.

Is the inspection result normal?

- YES >> Replace TEL adapter unit.
NO >> Repair harness or connector.

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MODE CHANGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

MODE CHANGE SIGNAL CIRCUIT

Description

INFOID:000000001907369

- AV control unit transmits the mode change signal to BOSE amp.
- Driver's Audio Stage controls the speaker's output characteristic by BOSE amp. so that the driver's seat is to be the center of sounds.

Diagnosis Procedure

INFOID:000000001907370

1. CHECK CONTINUITY MODE CHANGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BOSE amp. connector and AV control unit connector.
3. Check continuity between BOSE amp. harness connector terminal 37 and AV control unit harness connector terminal 27.

37 - 27 : Continuity should exist.

4. Check continuity between BOSE amp. harness connector terminal 37 and ground.

37 - Ground : Continuity should not exist.

Is the inspection result normal?

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

2. CHECK MODE CHANGE SIGNAL

1. Connect BOSE amp. connector.
2. Turn ignition switch ON.
3. Check signal between BOSE amp. harness connector terminal 37 and ground.

Terminal	Condition	Reference value
37 - Ground	Ignition switch ON	8.5 V

Is the inspection result normal?

- YES >> Replace AV control unit.
NO >> Replace BOSE amp.

COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)

Description

INFOID:000000001559046

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

Diagnosis Procedure

INFOID:000000001559047

1. CHECK CONTINUITY COMMUNICATION SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect satellite radio tuner connector and AV control unit connector.
3. Check continuity between satellite radio tuner harness connector terminals 9, 10 and AV control unit harness connector terminals 29, 30.

9 - 29 : Continuity should exist.

10 - 30 : Continuity should exist.

4. Check continuity between satellite radio tuner harness connector terminals 9, 10 and ground.

9, 10 - Ground : Continuity should not exist.

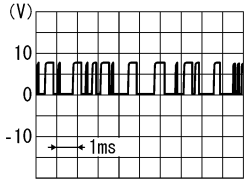
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK COMMUNICATION SIGNAL

1. Connect satellite radio tuner connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between satellite radio tuner harness connector terminal 9 and ground.

Terminal	Condition		Reference value
9 - Ground	Ignition switch ON	When satellite radio mode is selected.	

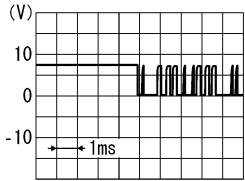
Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace satellite radio tuner.

3. CHECK COMMUNICATION SIGNAL

Check signal between satellite radio tuner harness connector terminal 10 and ground.

Terminal	Condition		Reference value
10 - Ground	Ignition switch ON	When satellite radio mode is selected.	

Is the inspection result normal?

YES >> Replace satellite radio tuner.

COMMUNICATION SIGNAL CIRCUIT (CONT-SAT)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

NO >> Replace AV control unit.

REQUEST SIGNAL CIRCUIT (SAT→CONT)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

REQUEST SIGNAL CIRCUIT (SAT→CONT)

Description

INFOID:000000001559048

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

Diagnosis Procedure

INFOID:000000001559049

1. CHECK CONTINUITY REQUEST SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect satellite radio tuner connector and AV control unit connector.
3. Check continuity between satellite radio tuner unit harness connector terminal 8 and AV control unit harness connector terminal 28.

8 - 28 : Continuity should exist.

4. Check continuity between satellite radio tuner harness connector terminal 8 and ground.

8 - Ground : Continuity should not exist.

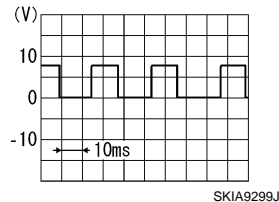
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK COMMUNICATION SIGNAL

1. Connect satellite radio tuner connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between satellite radio tuner harness connector terminal 8 and ground.

Terminal	Condition		Reference value
8 - Ground	Ignition switch ON	When satellite radio mode is selected.	

Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace satellite radio tuner.

AV

STEERING SWITCH SIGNAL A CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

STEERING SWITCH SIGNAL A CIRCUIT

Description

INFOID:000000001559050

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:000000001559051

1. CHECK STEERING SWITCH SIGNAL A CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector terminal 6 and spiral cable harness connector terminal 24.

6 - 24 : Continuity should exist.

3. Check continuity between AV control unit harness connector terminals 6 and ground.

6 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace spiral cable.

3. CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector and spiral cable connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector terminals 6 and 15.

**6 - 15 Except for above
: Approx. 3.3 V**

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-182, "Component Inspection"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

Component Inspection

INFOID:000000001559052

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

STEERING SWITCH SIGNAL A CIRCUIT

[BOSE AUDIO WITHOUT NAVIGATION]

< COMPONENT DIAGNOSIS >

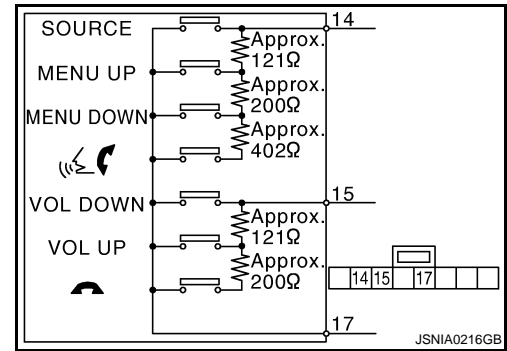
Standard

Between terminals 14 and 17

-  **switch ON** : 716 – 730 Ω
- MENU DOWN switch ON** : 318 – 324 Ω
- MENU UP switch ON** : 120 – 122 Ω
- SOURCE switch ON** : 0 Ω

Between terminals 15 and 17

-  **switch ON** : 318 – 324 Ω
- VOL UP switch ON** : 120 – 122 Ω
- VOL DOWN switch ON** : 0 Ω



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STEERING SWITCH SIGNAL B CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

STEERING SWITCH SIGNAL B CIRCUIT

Description

INFOID:000000001559053

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:000000001559054

1. CHECK STEERING SWITCH SIGNAL B CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector terminal 16 and spiral cable harness connector terminal 31.

16 - 31 : Continuity should exist.

3. Check continuity between AV control unit harness connector terminals 16 and ground.

16 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace spiral cable.

3. CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector and spiral cable connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector terminals 16 and 15.

**16 - 15 Except for above
: Approx. 3.3 V**

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-184, "Component Inspection"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

Component Inspection

INFOID:000000001559055

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

STEERING SWITCH SIGNAL B CIRCUIT

[BOSE AUDIO WITHOUT NAVIGATION]

< COMPONENT DIAGNOSIS >

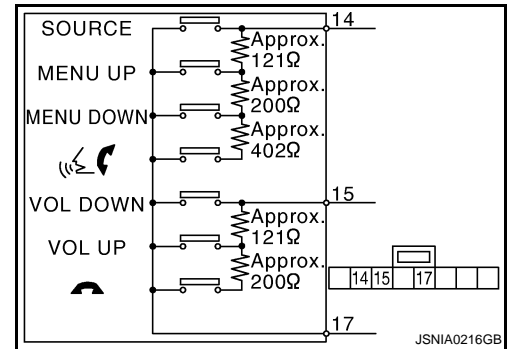
Standard

Between terminals 14 and 17

-  **switch ON : 716 – 730 Ω**
- MENU DOWN switch ON : 318 – 324 Ω**
- MENU UP switch ON : 120 – 122 Ω**
- SOURCE switch ON : 0 Ω**

Between terminals 15 and 17

-  **switch ON : 318 – 324 Ω**
- VOL UP switch ON : 120 – 122 Ω**
- VOL DOWN switch ON : 0 Ω**



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STEERING SWITCH SIGNAL GND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

STEERING SWITCH SIGNAL GND CIRCUIT

Description

INFOID:000000001559056

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:000000001559057

1. CHECK STEERING SWITCH SIGNAL GND CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector terminal 15 and spiral cable harness connector terminal 33.

15 - 33 : Continuity should exist.

3. Connect AV control unit connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace spiral cable.

3. CHECK GROUND CIRCUIT

1. Connect AV control unit connector.
2. Check continuity between AV control unit harness connector terminal 15 and ground.

15 - Ground : Continuity should exist.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-186. "Component Inspection"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

Component Inspection

INFOID:000000001559058

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

Standard

Between terminals 14 and 17

 **switch ON** : 716 – 730 Ω

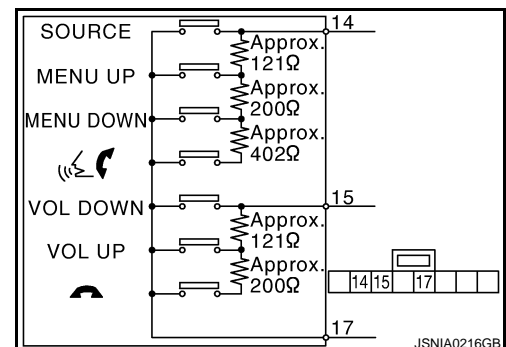
MENU DOWN switch ON : 318 – 324 Ω

MENU UP switch ON : 120 – 122 Ω

SOURCE switch ON : 0 Ω

Between terminals 15 and 17

 **switch ON** : 318 – 324 Ω



STEERING SWITCH SIGNAL GND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

VOL UP switch ON : 120 – 122 Ω
VOL DOWN switch ON : 0 Ω

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AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

ECU DIAGNOSIS

AV CONTROL UNIT

Reference Value

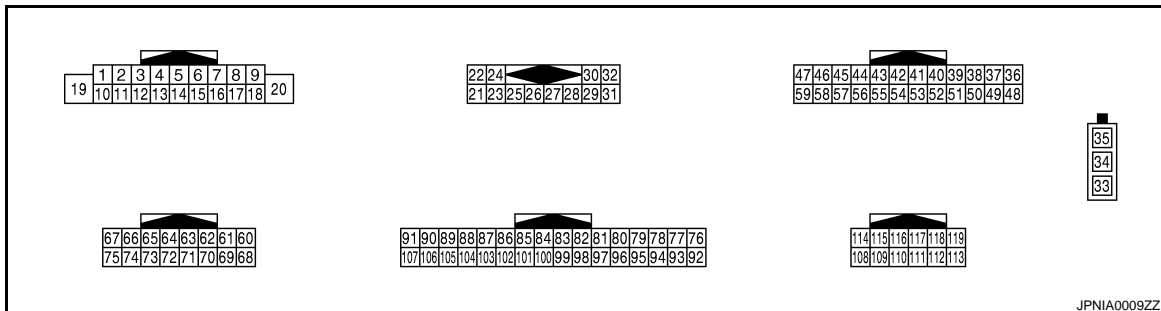
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VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

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

TERMINAL LAYOUT



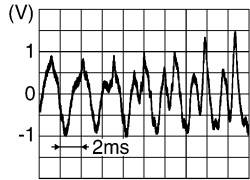
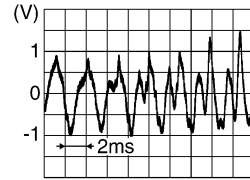
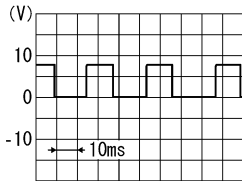
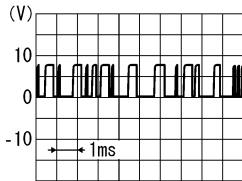
PHYSICAL VALUES

Terminal (Wire color)		Description		Condition	Reference value (Approx.)
+	-	Signal name	Input/Output		
6 (G)	15 (B)	Steering switch signal A	Input	Ignition switch ON	Keep pressing SOURCE switch. 0 V
				Keep pressing Δ switch. 0.7 V	
				Keep pressing ∇ switch. 1.3 V	
				Keep pressing ω switch 2 V	
				Except for above. 3.3 V	
7 (V)	Ground	ACC power supply	Input	Ignition switch ACC	— Battery voltage
9 (L)	Ground	Illumination signal	Input	OFF	Lighting switch is OFF. 0 V
				Lighting switch is ON. 12 V	

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

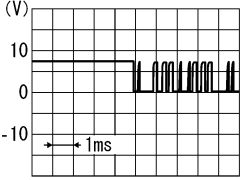
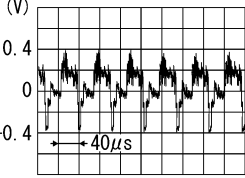
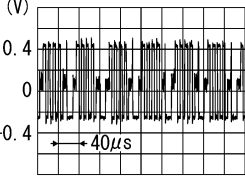
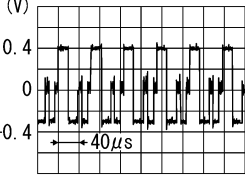
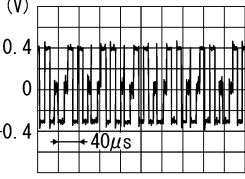
Terminal (Wire color)		Description		Condition	Reference value (Approx.)
+	-	Signal name	Input/ Output		
15 (B)	Ground	Steering switch signal GND	—	Ignition switch ON	— 0 V
16 (L)	15 (B)	Steering switch signal B	Input	Ignition switch ON	Keep pressing VOL DOWN switch. 0 V
					Keep pressing VOL UP switch. 0.7 V
					Keep pressing switch. 1.3 V
					Except for above. 3.3 V
19 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	— Battery voltage
20 (B)	Ground	GND	—	Ignition switch ON	— 0 V
22 (R)	21 (W)	Satellite radio sound signal LH	Input	Ignition switch ON	When satellite radio mode is selected  SKIB3609E
24 (B)	23 (G)	Satellite radio sound signal RH	Input	Ignition switch ON	When satellite radio mode is selected  SKIB3609E
25	—	Shield	—	—	—
26	—	Shield	—	—	—
27 (SB)	Ground	Mode change signal	Output	Ignition switch ON	Driver's Audio Stage ON 0 V
					Driver's Audio Stage OFF 8.5 V
28 (W)	Ground	Request signal (SAT→CONT)	Input	Ignition switch ON	When satellite radio mode is selected  SKIA9299J
29 (B)	Ground	Communication signal (SAT→CONT)	Input	Ignition switch ON	When satellite radio mode is selected  SKIA9300J

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AV CONTROL UNIT

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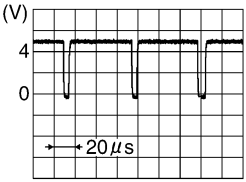
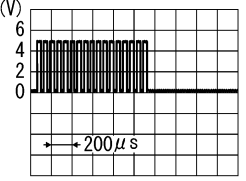
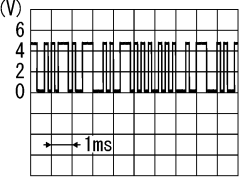
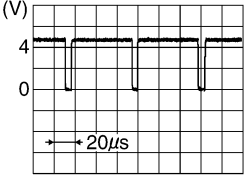
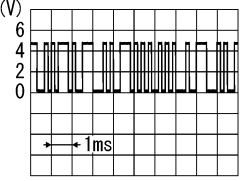
< ECU DIAGNOSIS >

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
30 (R)	Ground	Communication signal (CONT→SAT)	Output	Ignition switch ON	When satellite radio mode is selected	 <p style="text-align: right; font-size: small;">SKIA9301J</p>
33	—	FM sub	Input	—	—	—
34	—	AM-FM main	Input	—	—	—
35	Ground	Antenna amp. ON signal	Output	Ignition switch ACC	—	12 V
36 (R)	Ground	AUX image signal	Output	Ignition switch ON	At AUX image is displayed	 <p style="text-align: right; font-size: small;">SKIB2251J</p>
37 (L)	Ground	AUX image ground	—	Ignition switch ON	—	0 V
38 (P)	Ground	RGB signal (B: blue)	Output	Ignition switch ON	Start confirmation/adjust- ment mode, and then dis- play color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 <p style="text-align: right; font-size: small;">SKIB2237J</p>
39 (L)	Ground	RGB signal (G: green)	Output	Ignition switch ON	Start confirmation/adjust- ment mode, and then dis- play color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 <p style="text-align: right; font-size: small;">SKIB2236J</p>
40 (G)	Ground	RGB signal (R: red)	Output	Ignition switch ON	Start confirmation/adjust- ment mode, and then dis- play color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 <p style="text-align: right; font-size: small;">SKIB2238J</p>

AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
41 (Y)	Ground	RGB synchronizing signal	Output	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">SKIB3603E</p>
42	—	Shield	—	—	—	—
43 (P)	Ground	RGB area (YS) signal	Output	Ignition switch ON	At RGB image displayed	5 V
					At AUX image is displayed	 <p style="text-align: right; font-size: small;">PKIB4948J</p>
44 (G)	Ground	Communication signal (DISP→CONT)	Input	Ignition switch ON	When adjusting display- brightness.	 <p style="text-align: right; font-size: small;">PKIB5039J</p>
45 (LG)	Ground	Horizontal synchronizing (HP) signal	Input	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">SKIB3601E</p>
46 (LG)	Ground	Signal GND	—	Ignition switch ON	—	0 V
47 (O)	Ground	Signal VCC	Output	Ignition switch ACC	—	9 V
49	—	Shield	—	—	—	—
50	—	Shield	—	—	—	—
55	—	Shield	—	—	—	—
56 (L)	Ground	Communication signal (CONT→DISP)	Output	Ignition switch ON	When adjusting display- brightness.	 <p style="text-align: right; font-size: small;">PKIB5039J</p>

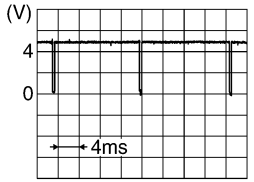
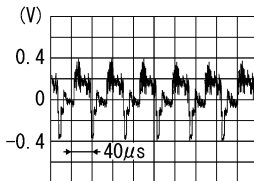

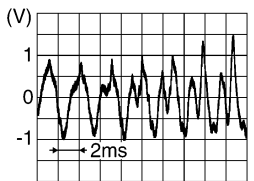
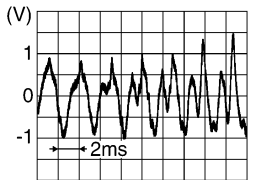
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AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

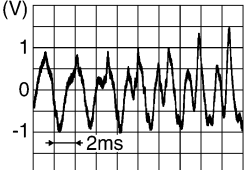
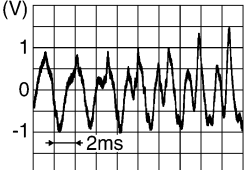
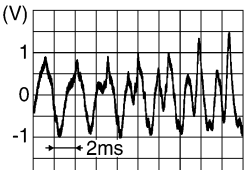
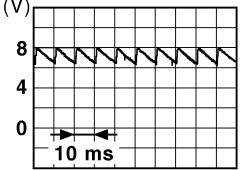
< ECU DIAGNOSIS >

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
57 (GR)	Ground	Vertical synchronizing (VP) signal	Input	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">SKIB3598E</p>
58 (BR)	Ground	Inverter GND	—	Ignition switch ON	—	0 V
59 (Y)	Ground	Inverter VCC	Output	Ignition switch ACC	—	9 V
66 (R)	Ground	AUX image signal	Input	Ignition switch ON	At AUX image is displayed	 <p style="text-align: right; font-size: small;">SKIB2251J</p>
73	—	Shield	—	—	—	—
74 (L)	Ground	AUX image signal GND	—	Ignition switch ON	—	0 V
80 (L)	79 (P)	TEL voice signal	Input	Ignition switch ON	During voice guide output with the  switch pressed	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
81	—	Shield	—	—	—	—
83 (B)	82 (G)	iPod sound signal RH	Input	Ignition switch ON	When iPod mode is selected	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
85 (B)	Ground	GND	—	Ignition switch ON	—	0 V
86 (L)	—	CAN-H	Input/ Output	—	—	—
87 (P)	—	CAN-L	Input/ Output	—	—	—
88 (G)	—	AV communication signal (H)	Input/ Output	—	—	—

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

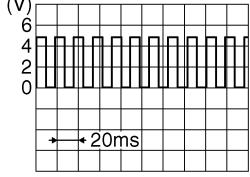
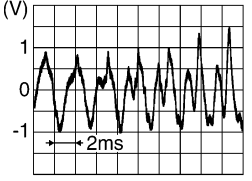
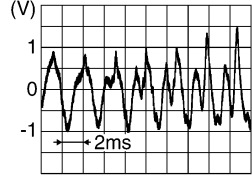
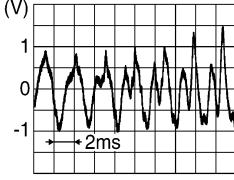
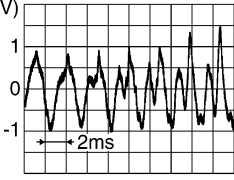
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
89 (R)	—	AV communication signal (L)	Input/ Output	—	—	—
90 (L)	—	AV communication signal (H)	Input/ Output	—	—	—
91 (P)	—	AV communication signal (L)	Input/ Output	—	—	—
95 (L)	Ground	AUX sound signal RH	Input	Ignition switch ON	When AUX mode is select- ed	 <small>SKIB3609E</small>
96 (W)	Ground	AUX sound signal LH	Input	Ignition switch ON	When AUX mode is select- ed	 <small>SKIB3609E</small>
97	—	Shield (AUX sound signal GND)	—	—	—	—
99 (R)	98 (W)	iPod sound signal LH	Input	Ignition switch ON	When iPod mode is select- ed	 <small>SKIB3609E</small>
100	—	Shield	—	—	—	—
101 (BR)	Ground	SW GND	—	Ignition switch ON	—	0 V
103 (LG)	Ground	Eject signal	Input	—	Pressing the eject switch	0 V
					Except for above	3.3 V
104 (G)	Ground	Ignition signal	Input	Ignition switch ON	—	Battery voltage
105 (O)	Ground	Reverse signal	Input	Ignition switch ON	R position	12 V
					Other than R position	0 V
106 (SB)	Ground	Parking brake signal	Input	Ignition switch ON	Parking brake ON	0 V
					Parking brake OFF	 <small>JSNIA0007GB</small>

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AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
107 (GR)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is ap- prox. 40 km/h (25 MPH)	<p>NOTE: Maximum voltage may be 12 V due to specifications (connected units).</p>  <p style="text-align: right; font-size: small;">SKIA6649J</p>
108 (BR)	114 (Y)	Sound signal rear RH	Output	Ignition switch ON	Voice output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
109 (R)	115 (G)	Sound signal front RH	Output	Ignition switch ON	Voice output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
110 (V)	Ground	Amp. ON signal	Output	Ignition switch ON	—	10 V
111	—	Shield	—	—	—	—
112 (O)	118 (W)	Sound signal rear LH	Output	Ignition switch ON	Voice output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
113 (P)	119 (L)	Sound signal front LH	Output	Ignition switch ON	Voice output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>

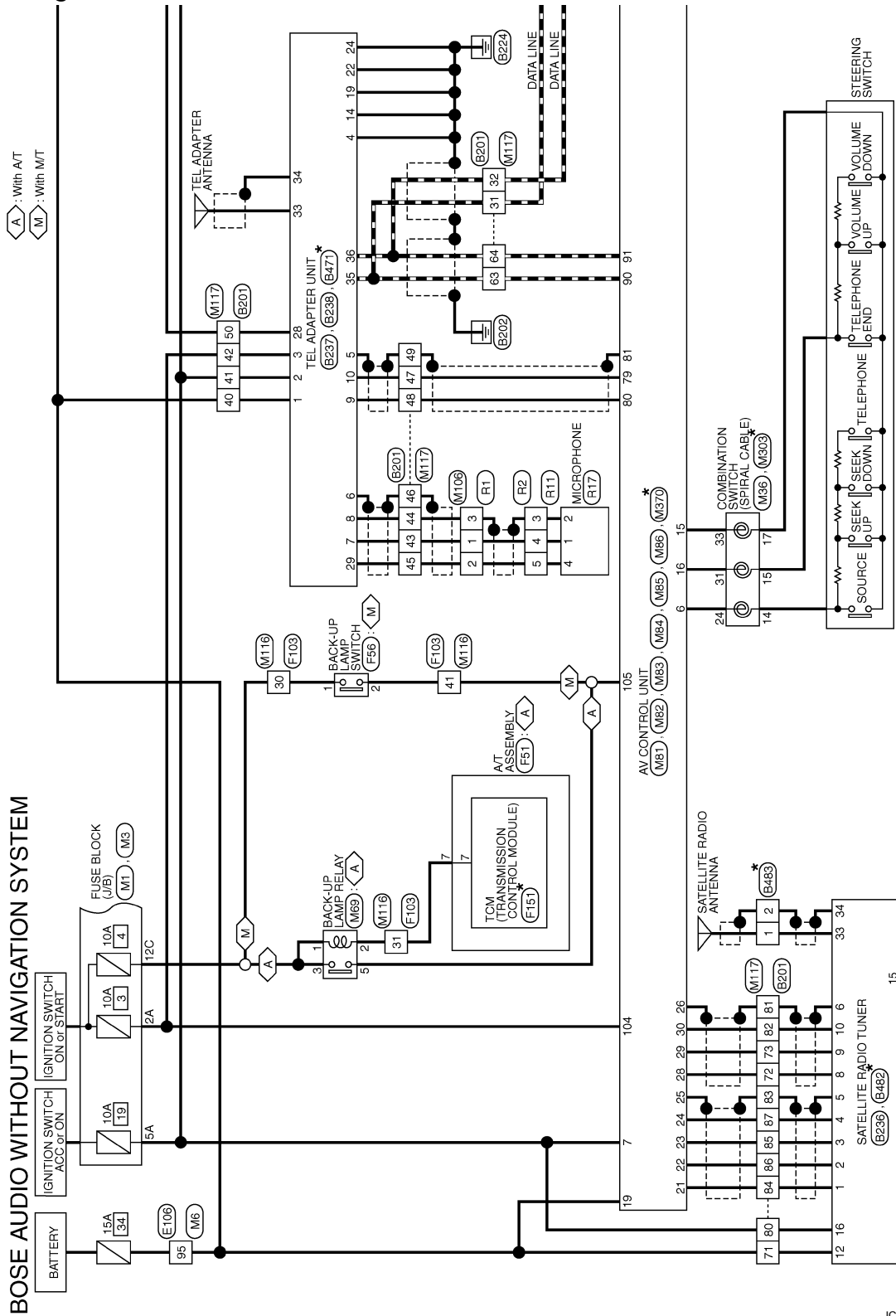
AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

INFOID:000000001559060



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

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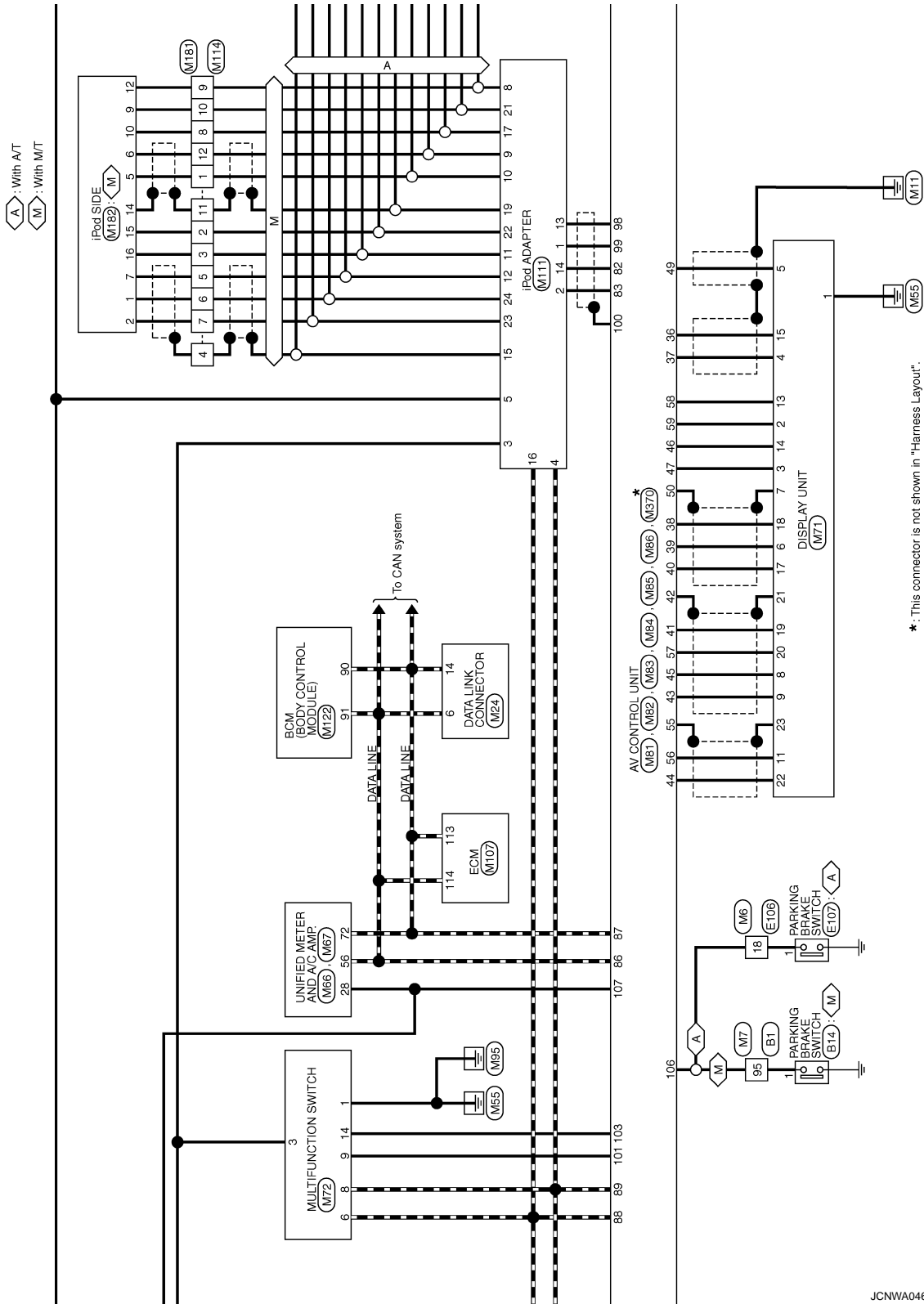
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AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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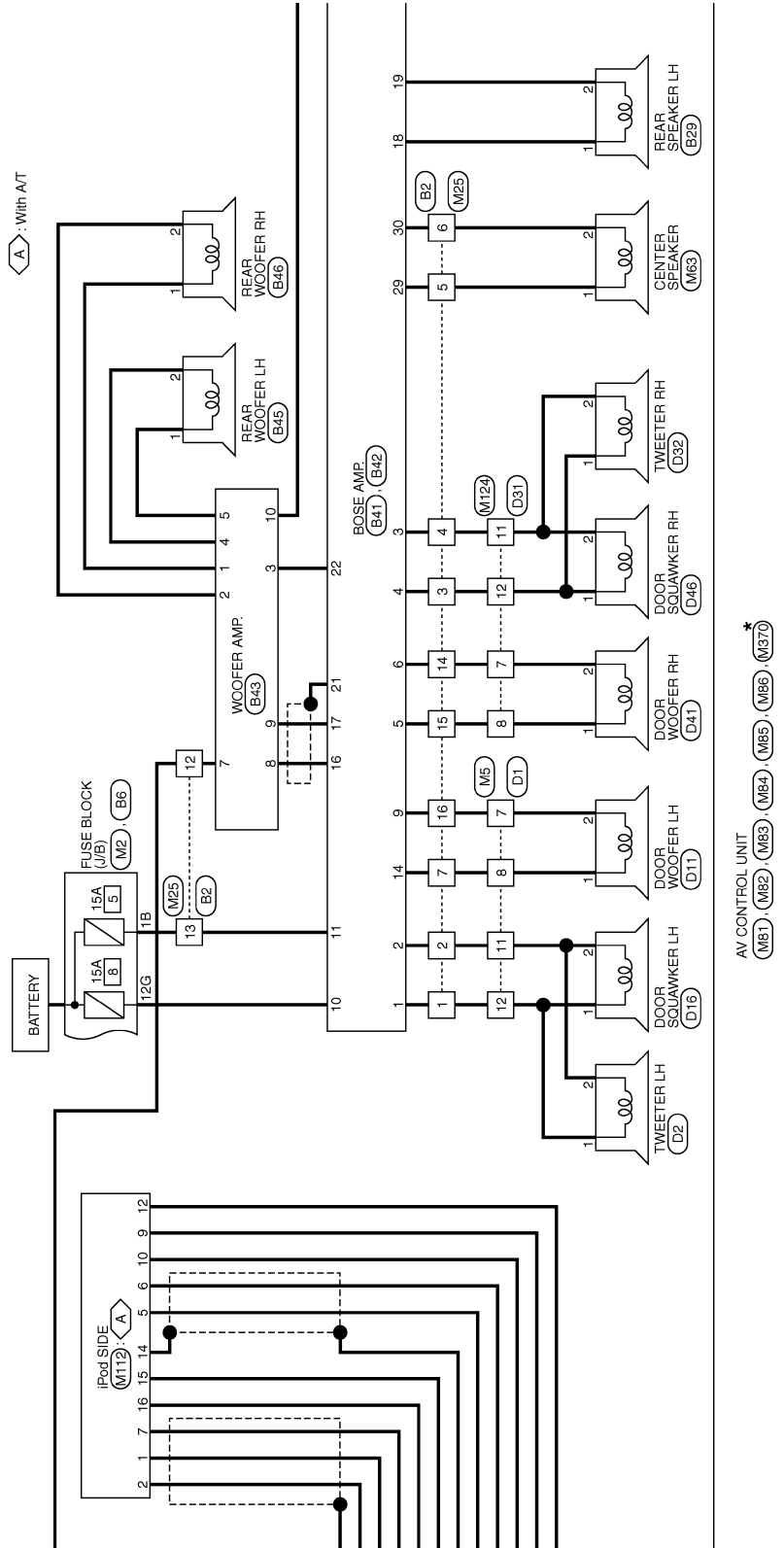


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[BOSE AUDIO WITHOUT NAVIGATION]



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

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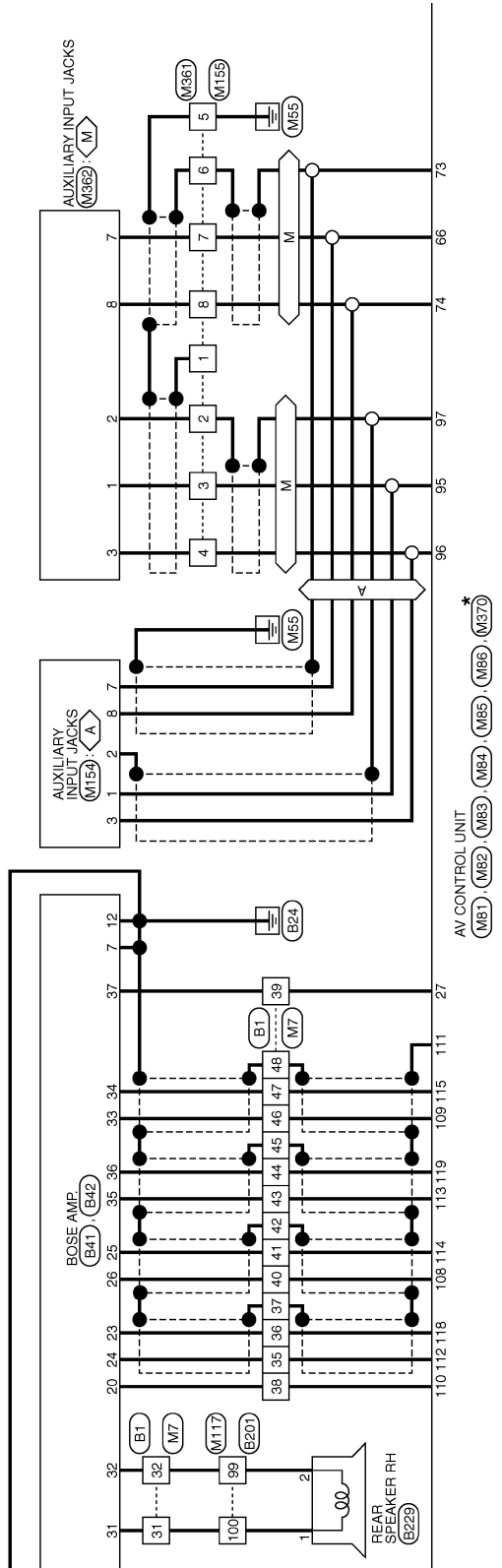
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AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

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



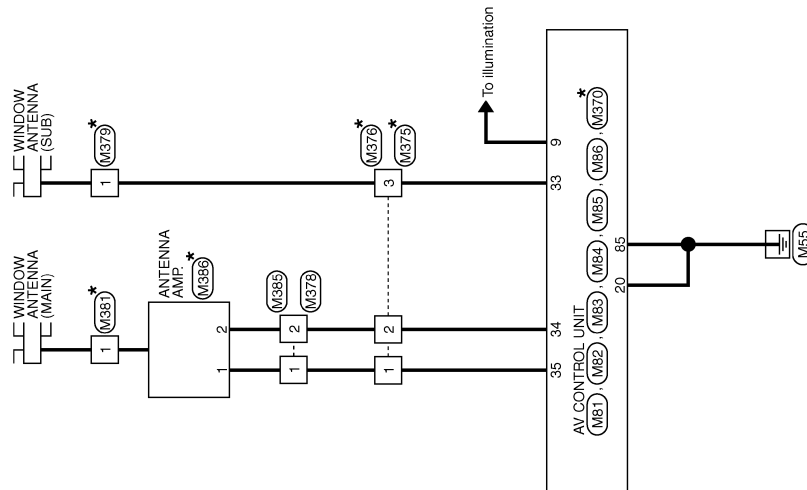
*: This connector is not shown in "Harness Layout".

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AV CONTROL UNIT

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[BOSE AUDIO WITHOUT NAVIGATION]



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

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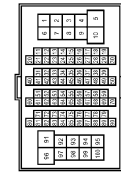
AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	LG	-
32	Y	-
35	V	-
36	SB	-
37	SHIELD	-
38	W	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	P	-

44	L	-
45	SHIELD	-
46	P	-
47	G	-
48	SHIELD	-
98	V	-



Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



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

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



Terminal No.	12G	Y	-
Color of Wire			
Signal Name [Specification]			

Connector No.	B14
Connector Name	PARKING BRAKE SWITCH (M/T)
Connector Type	P01FB-A



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

Connector No.	B29
Connector Name	REAR SPEAKER LH
Connector Type	TK02MBR-P



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

16	W	-
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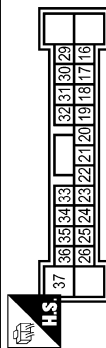
AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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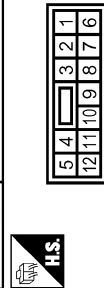
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FER-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
16	SB	SOUND SIGNAL WOOFER (+)
17	V	SOUND SIGNAL WOOFER (-)
18	L	SOUND SIGNAL REAR LH (+)
19	P	SOUND SIGNAL REAR LH (-)
20	W	AMP. ON SIGNAL
21	SHIELD	SHIELD
22	GR	WOOFER AMP. ON SIGNAL
23	SB	SOUND SIGNAL REAR LH (+)
24	V	SOUND SIGNAL REAR LH (-)
25	Y	SOUND SIGNAL REAR RH (+)
26	BR	SOUND SIGNAL REAR RH (-)

Connector No.	B43
Connector Name	WOOFER AMP.
Connector Type	NS12FW-CS

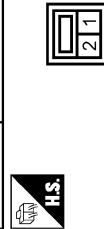


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR WOOFER RH (+)
2	R	REAR WOOFER RH (-)
3	GR	WOOFER AMP. ON SIGNAL
4	B	REAR WOOFER LH (+)
5	W	REAR WOOFER LH (-)
7	Y	REAR WOOFER LH (+)
8	SB	SOUND SIGNAL WOOFER (+)
9	V	SOUND SIGNAL WOOFER (-)
10	B	GND

29	L	SOUND SIGNAL CENTER (+)
30	O	SOUND SIGNAL CENTER (-)
31	LG	SOUND SIGNAL REAR RH (+)
32	V	SOUND SIGNAL REAR RH (-)
33	R	SOUND SIGNAL FRONT RH (+)
34	G	SOUND SIGNAL FRONT RH (-)
35	P	SOUND SIGNAL FRONT LH (+)
36	L	SOUND SIGNAL FRONT LH (-)
37	SB	MODE CHANGE SIGNAL

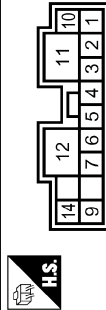
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	DOOR SQUAWKER LH (+)
2	W	DOOR SQUAWKER LH (-)
3	LG	DOOR SQUAWKER RH (+)
4	V	DOOR SQUAWKER RH (-)
5	G	DOOR WOOFER RH (+)
6	R	DOOR WOOFER RH (-)
7	B	GND
9	W	DOOR WOOFER LH (+)
10	Y	BATTERY
11	GR	BATTERY
12	B	GND

Connector No.	B46
Connector Name	REAR WOOFER RH
Connector Type	NS12FW-CS



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

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



14	B	DOOR WOOFER LH (+)
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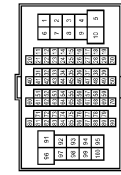
AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-GS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	G	-
32	R	-
40	GR	-
41	LG	-
42	W	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	G	-
48	Y	-

Connector No.	B236
Connector Name	SATELLITE RADIO TUNER
Connector Type	A16PW



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

Connector No.	B229
Connector Name	REAR SPEAKER RH
Connector Type	TK02MBR-P



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

Connector No.	B237
Connector Name	TEL ADAPTER UNIT
Connector Type	TH82FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	BATTERY
2	LG	ACC
3	W	IGNITION
4	B	GND
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	B	MICROPHONE SIGNAL
8	R	MICROPHONE GND
9	Y	TEL VOICE SIGNAL (+)
10	G	TEL VOICE SIGNAL (-)
14	B	GND

19	B	GND
22	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
23	P	VEHICLE SPEED (8-PULSE)
29	W	MICROPHONE VCC

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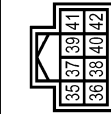
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[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B238
Connector Name	TEL ADAPTER UNIT
Connector Type	TH88FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
35	L	AV COMM (H)
36	P	AV COMM (L)

Connector No.	B471
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-1S-TU



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

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



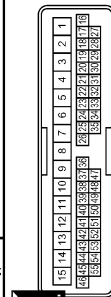
Terminal No.	Color of Wire	Signal Name [Specification]
33	-	SATELLITE ANTENNA
34	SHIELD	SHIELD

Connector No.	B483
Connector Name	SATELLITE RADIO ANTENNA
Connector Type	GT16C-1PP-TU



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

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH4UFW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D2
Connector Name	TWEETER LH
Connector Type	TK02MBR-P



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

Connector No.	D11
Connector Name	DOOR WOOFER LH
Connector Type	NS02FW-CS



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

Connector No.	D16
Connector Name	DOOR SQUAWKER LH
Connector Type	TK02FBR



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

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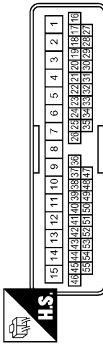
AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D32
Connector Name	TWEETER RH
Connector Type	TK02M8R-P



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

Connector No.	D41
Connector Name	DOOR WOOFER RH
Connector Type	HS02FW-CS



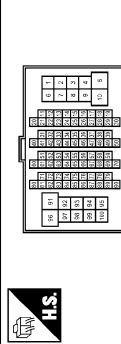
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	D46
Connector Name	DOOR SQUAWKER RH
Connector Type	TK02F8R



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

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-CS16-TM4



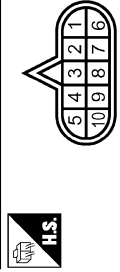
Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

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



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

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DG1



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

Connector No.	F56
Connector Name	BACK-UP LAMP SWITCH
Connector Type	RK02FB



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

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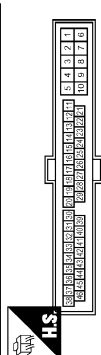
AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10



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

Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SPT0FBGY



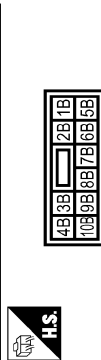
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

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



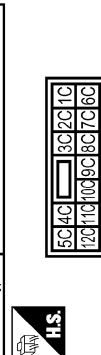
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



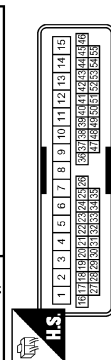
Terminal No.	Color of Wire	Signal Name [Specification]
1B	SB	-

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



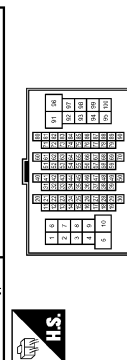
Terminal No.	Color of Wire	Signal Name [Specification]
12C	R	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
7	W	-
8	B	-
11	W	-
12	L	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

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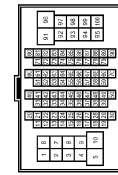
AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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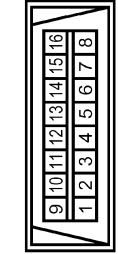
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



44	W	-
45	SHIELD	-
46	P	-
47	G	-
48	SHIELD	-
95	O	-

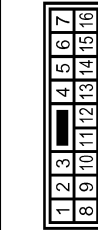
Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	P	-
35	O	-
36	W	-
37	SHIELD	-
38	SB	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	O	-

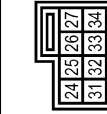
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	MS16MW-CS



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



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	GR	-
5	L	-
6	LG	-
7	B	-
12	Y	-
13	SB	-
14	R	-
15	G	-

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

Connector No.	M33
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



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

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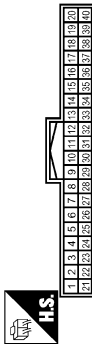
AV CONTROL UNIT

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



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

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



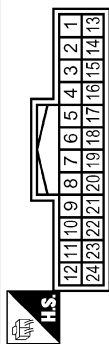
Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS30FL-M2



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

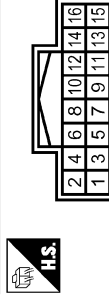
Connector No.	M71
Connector Name	DISPLAY UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH



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

14	LG	SIGNAL GND
15	R	AUX IMAGE SIGNAL
17	G	RGB (RED) SIGNAL
18	P	RGB (BLUE) SIGNAL
19	Y	RGB SYNC
20	GR	VP
21	SHIELD	SHIELD
22	G	COMM (DISP->CONT)
23	SHIELD	SHIELD

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	L	ACC
6	SB	AV COMM (H)
8	W	AV COMM (L)
9	BR	SW GND
14	LG	ELECT SIGNAL (Without NAVI)

Connector No.	M81
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH16FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
6	G	STRG SW A
7	V	ACC
9	L	ILLUMINATION
15	B	STRG SW GND
18	L	STRG SW B
19	Y	BATTERY
20	B	GND

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AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



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



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



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

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

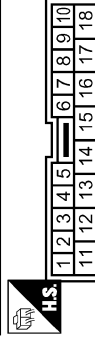
Connector No.	M85
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH32FW-NH



Connector No.	M86
Connector Name	AV CONTROL UNIT (WITH BOSE SYSTEM)
Connector Type	TH12FW-NH



Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK (DIMP)-NS



Terminal No.	79	80	81	82	83	84	85	86	87	88	89	90
Color of Wire	P	L	SHIELD	G	B	B	B	B	P	V	LG	L
Signal Name [Specification]	TEL VOICE SIGNAL (-)	TEL VOICE SIGNAL (+)	SHIELD	iPod SOUND SIGNAL RH (-)	iPod SOUND SIGNAL RH (+)	GND	CAN-H	CAN-L	AV COMM (H)	AV COMM (L)	AV COMM (H)	AV COMM (H)

Terminal No.	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
Color of Wire	P	R	W	SHIELD	W	R	R	R	R	R	BR	LG	G	O	SB	GR	GR
Signal Name [Specification]	AV COMM (L)	AUX SOUND SIGNAL RH (+)	AUX SOUND SIGNAL LH (+)	SHIELD	iPod SOUND SIGNAL LH (-)	iPod SOUND SIGNAL LH (+)	SHIELD	SHIELD	SW GND	EJECT SIGNAL	IGNITION	REVERSE	PARKING BRAKE	VEHICLE SPEED (8-PULSE)	VEHICLE SPEED (8-PULSE)	VEHICLE SPEED (8-PULSE)	VEHICLE SPEED (8-PULSE)

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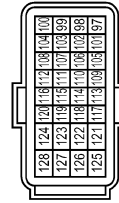
AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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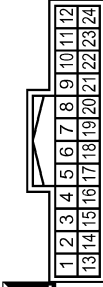
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M107
Connector Name	EOM
Connector Type	RH24GY-R28-R-LH-Z



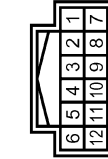
Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHGAN-L1
114	L	VEHGAN-H1

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (-)
2	B	iPod SOUND SIGNAL RH (-)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER (With A/T)
9	L	CHARGE POWER (With M/T)
10	P	COMM (iPod ADAPTER->iPod)
11	L	COMM (iPod->iPod ADAPTER)
12	W	ACCESSORY IDENTIFY

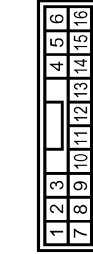
Connector No.	M114
Connector Name	WIRE TO WIRE
Connector Type	TH12PW-NH



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

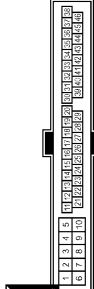
13	W	iPod SOUND SIGNAL LH (-)
14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	GC	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	R	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP18FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

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



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

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AV CONTROL UNIT

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
31	V	-
32	LG	-
40	Y	-
41	G	-
42	V	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	P	-
48	L	-

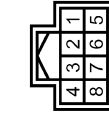
Connector No.	M134
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AUSPW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+)
2	SHIELD	SHIELD [Without NAVI]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

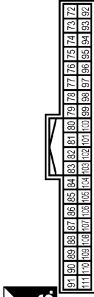
49	SHIELD	-
50	BR	-
63	L	-
64	P	-
71	Y	-
72	P	-
73	G	-
80	W	-
81	SHIELD	-
82	L	-
83	SHIELD	-
84	W	-
85	R	-
86	B	-
87	G	-
99	P	-
100	L	-

Connector No.	M155
Connector Name	WIRE TO WIRE
Connector Type	TH08PW-NH



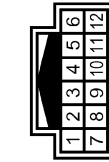
Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	SHIELD	- [Without NAVI]
3	R	-
4	W	-
5	B	-
6	SHIELD	-
7	G	-
8	R	-

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



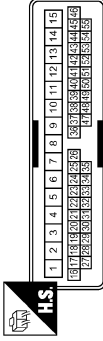
Terminal No.	Color of Wire	Signal Name [Specification]
90	P	GAN-L
91	L	GAN-H

Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



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

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-GS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	GR	-
12	BR	-

Terminal No.	12	P
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AV CONTROL UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M182
Connector Name	iPod SIDE
Connector Type	IP182GY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION GND
10	BR	CHARGE POWER
12	L	SHIELD
14	SHIELD	ACCESSORY DETECT
15	G	ACCESSORY IDENTIFY
16	O	

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK03GY



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

Connector No.	M361
Connector Name	WIRE TO WIRE
Connector Type	TH03MM-NH



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

Connector No.	M382
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB02W



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	SOUND SIGNAL RH (+) [Without NAV]
2	SHIELD	SHIELD [Without NAV]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

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



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

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



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

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCH-2/1PP-HU



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

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-1/1PP-HU













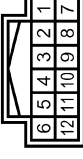

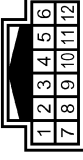



Terminal No.	Color of Wire	Signal Name [Specification]
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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>M379</td></tr> <tr><td>Connector Name</td><td>WINDOW ANTENNA (SUB)</td></tr> <tr><td>Connector Type</td><td>P01FB-A</td></tr> </table>	Connector No.	M379	Connector Name	WINDOW ANTENNA (SUB)	Connector Type	P01FB-A	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal No.</td><td>1</td></tr> <tr><td>Color of Wire</td><td>-</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>	Terminal No.	1	Color of Wire	-	Signal Name [Specification]	-														
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Connector Name	WINDOW ANTENNA (SUB)																										
Connector Type	P01FB-A																										
Terminal No.	1																										
Color of Wire	-																										
Signal Name [Specification]	-																										
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>M385</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.	M385	Connector Name	WIRE TO WIRE	Connector Type	GT13SC-1/1S-HU	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal No.</td><td>1</td></tr> <tr><td>Color of Wire</td><td>-</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>	Terminal No.	1	Color of Wire	-	Signal Name [Specification]	-														
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Signal Name [Specification]	-																										
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Connector No.	M386																										
Connector Name	ANTENNA AMP.																										
Connector Type	GT13SC-1/1S-HU																										
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Signal Name [Specification]	ANTENNA AMP. ON SIGNAL																										
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Color of Wire	-																										
Signal Name [Specification]	AM-FM MAIN																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>R1</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TK0PW-NS8</td></tr> </table>	Connector No.	R1	Connector Name	WIRE TO WIRE	Connector Type	TK0PW-NS8	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal No.</td><td>1</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td>- [Without NAV]</td></tr> <tr><td>Terminal No.</td><td>2</td></tr> <tr><td>Color of Wire</td><td>Y</td></tr> <tr><td>Signal Name [Specification]</td><td>- [Without NAV]</td></tr> <tr><td>Terminal No.</td><td>3</td></tr> <tr><td>Color of Wire</td><td>SHIELD</td></tr> <tr><td>Signal Name [Specification]</td><td>- [Without NAV]</td></tr> </table>	Terminal No.	1	Color of Wire	G	Signal Name [Specification]	- [Without NAV]	Terminal No.	2	Color of Wire	Y	Signal Name [Specification]	- [Without NAV]	Terminal No.	3	Color of Wire	SHIELD	Signal Name [Specification]	- [Without NAV]		
Connector No.	R1																										
Connector Name	WIRE TO WIRE																										
Connector Type	TK0PW-NS8																										
Terminal No.	1																										
Color of Wire	G																										
Signal Name [Specification]	- [Without NAV]																										
Terminal No.	2																										
Color of Wire	Y																										
Signal Name [Specification]	- [Without NAV]																										
Terminal No.	3																										
Color of Wire	SHIELD																										
Signal Name [Specification]	- [Without NAV]																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>R2</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH12PW-NH</td></tr> </table>	Connector No.	R2	Connector Name	WIRE TO WIRE	Connector Type	TH12PW-NH	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal No.</td><td>3</td></tr> <tr><td>Color of Wire</td><td>SHIELD</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>4</td></tr> <tr><td>Color of Wire</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td>- [Without NAV]</td></tr> <tr><td>Terminal No.</td><td>5</td></tr> <tr><td>Color of Wire</td><td>Y</td></tr> <tr><td>Signal Name [Specification]</td><td>- [Without NAV]</td></tr> </table>	Terminal No.	3	Color of Wire	SHIELD	Signal Name [Specification]	-	Terminal No.	4	Color of Wire	G	Signal Name [Specification]	- [Without NAV]	Terminal No.	5	Color of Wire	Y	Signal Name [Specification]	- [Without NAV]		
Connector No.	R2																										
Connector Name	WIRE TO WIRE																										
Connector Type	TH12PW-NH																										
Terminal No.	3																										
Color of Wire	SHIELD																										
Signal Name [Specification]	-																										
Terminal No.	4																										
Color of Wire	G																										
Signal Name [Specification]	- [Without NAV]																										
Terminal No.	5																										
Color of Wire	Y																										
Signal Name [Specification]	- [Without NAV]																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>R11</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH12MW-NH</td></tr> </table>	Connector No.	R11	Connector Name	WIRE TO WIRE	Connector Type	TH12MW-NH	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal No.</td><td>3</td></tr> <tr><td>Color of Wire</td><td>SHIELD</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>4</td></tr> <tr><td>Color of Wire</td><td>W</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> <tr><td>Terminal No.</td><td>5</td></tr> <tr><td>Color of Wire</td><td>R</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>	Terminal No.	3	Color of Wire	SHIELD	Signal Name [Specification]	-	Terminal No.	4	Color of Wire	W	Signal Name [Specification]	-	Terminal No.	5	Color of Wire	R	Signal Name [Specification]	-		
Connector No.	R11																										
Connector Name	WIRE TO WIRE																										
Connector Type	TH12MW-NH																										
Terminal No.	3																										
Color of Wire	SHIELD																										
Signal Name [Specification]	-																										
Terminal No.	4																										
Color of Wire	W																										
Signal Name [Specification]	-																										
Terminal No.	5																										
Color of Wire	R																										
Signal Name [Specification]	-																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Connector No.</td><td>R17</td></tr> <tr><td>Connector Name</td><td>MICROPHONE</td></tr> <tr><td>Connector Type</td><td>TK03FW</td></tr> </table>	Connector No.	R17	Connector Name	MICROPHONE	Connector Type	TK03FW	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Terminal No.</td><td>1</td></tr> <tr><td>Color of Wire</td><td>W</td></tr> <tr><td>Signal Name [Specification]</td><td>MICROPHONE SIGNAL</td></tr> <tr><td>Terminal No.</td><td>2</td></tr> <tr><td>Color of Wire</td><td>SHIELD</td></tr> <tr><td>Signal Name [Specification]</td><td>SHIELD</td></tr> <tr><td>Terminal No.</td><td>4</td></tr> <tr><td>Color of Wire</td><td>R</td></tr> <tr><td>Signal Name [Specification]</td><td>MICROPHONE VCC</td></tr> </table>	Terminal No.	1	Color of Wire	W	Signal Name [Specification]	MICROPHONE SIGNAL	Terminal No.	2	Color of Wire	SHIELD	Signal Name [Specification]	SHIELD	Terminal No.	4	Color of Wire	R	Signal Name [Specification]	MICROPHONE VCC		
Connector No.	R17																										
Connector Name	MICROPHONE																										
Connector Type	TK03FW																										
Terminal No.	1																										
Color of Wire	W																										
Signal Name [Specification]	MICROPHONE SIGNAL																										
Terminal No.	2																										
Color of Wire	SHIELD																										
Signal Name [Specification]	SHIELD																										
Terminal No.	4																										
Color of Wire	R																										
Signal Name [Specification]	MICROPHONE VCC																										

JCNWA0479GE

NOTE:

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

DTC Index

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

INFOID:000000001559061

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

DTC	Display item	Refer to
U1000	CAN COMM CIRCUIT [U1000]	AV-150, "Diagnosis Procedure"
U1010	CONTROL UNIT (CAN) [U1010]	AV-151, "Diagnosis Procedure"
U1310	CONTROL UNIT (AV) [U1310]	AV-152, "DTC Logic"
U1200	Control Unit FLASH-ROM [U1200]	AV-153, "DTC Logic"
U1216	CAN CONT [U1216]	AV-154, "DTC Logic"
U1243	FRONT DISP CONN [U1243]	AV-155, "Diagnosis Procedure"
U1255	SAT CONN [U1255]	AV-157, "Diagnosis Procedure"
U1300 U1240	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] 	AV-159, "Description"
U1300 U1254	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • IPOD CONN [U1254] 	AV-159, "Description"
U1300 U1256	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • HAND FREE CONN [U1256] 	AV-159, "Description"
U1300 U1240 U1254 U1256	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • IPOD CONN [U1254] • HAND FREE CONN [U1256] 	AV-159, "Description"

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DISPLAY UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

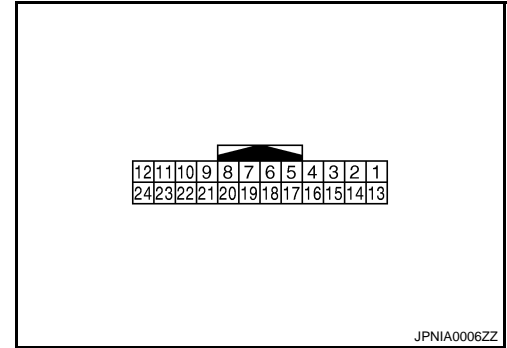
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DISPLAY UNIT

Reference Value

INFOID:000000001559062

TERMINAL LAYOUT



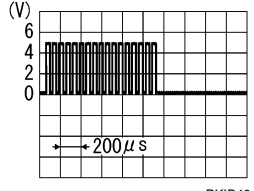
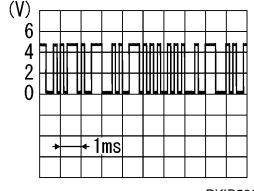
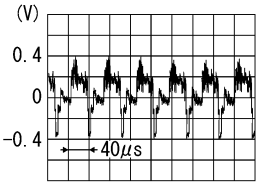
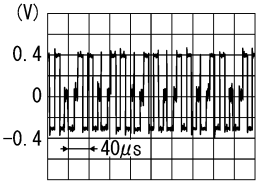
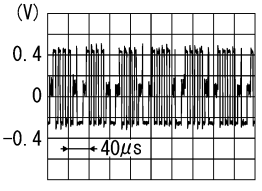
PHYSICAL VALUES

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

DISPLAY UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

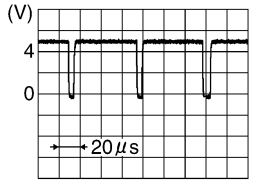
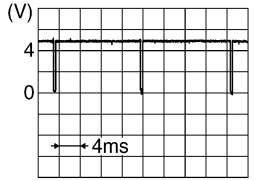
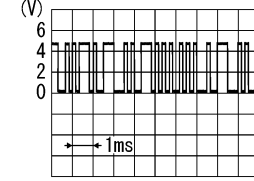
Terminal (Wire color)		Description		Condition	Reference value (Approx.)
+	-	Signal name	Input/ Output		
9 (P)	Ground	RGB area (YS) signal	Input	Ignition switch ON	At RGB image is displayed 5 V
				Ignition switch ON	At AUX image is displayed 
11 (L)	Ground	Communication signal (CONT→DISP)	Input	Ignition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

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DISPLAY UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

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

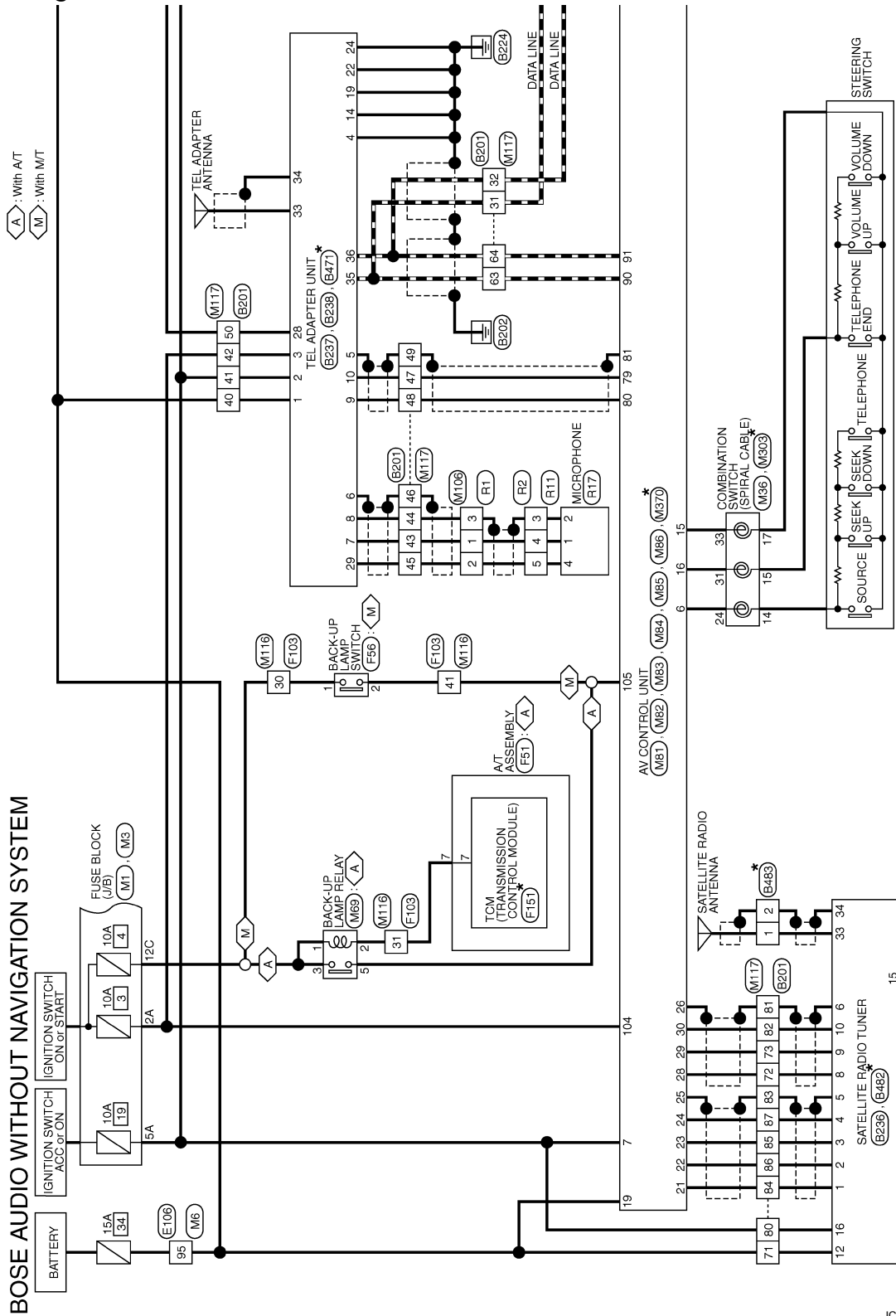
DISPLAY UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

INFOID:000000001689688



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

2007/05/18

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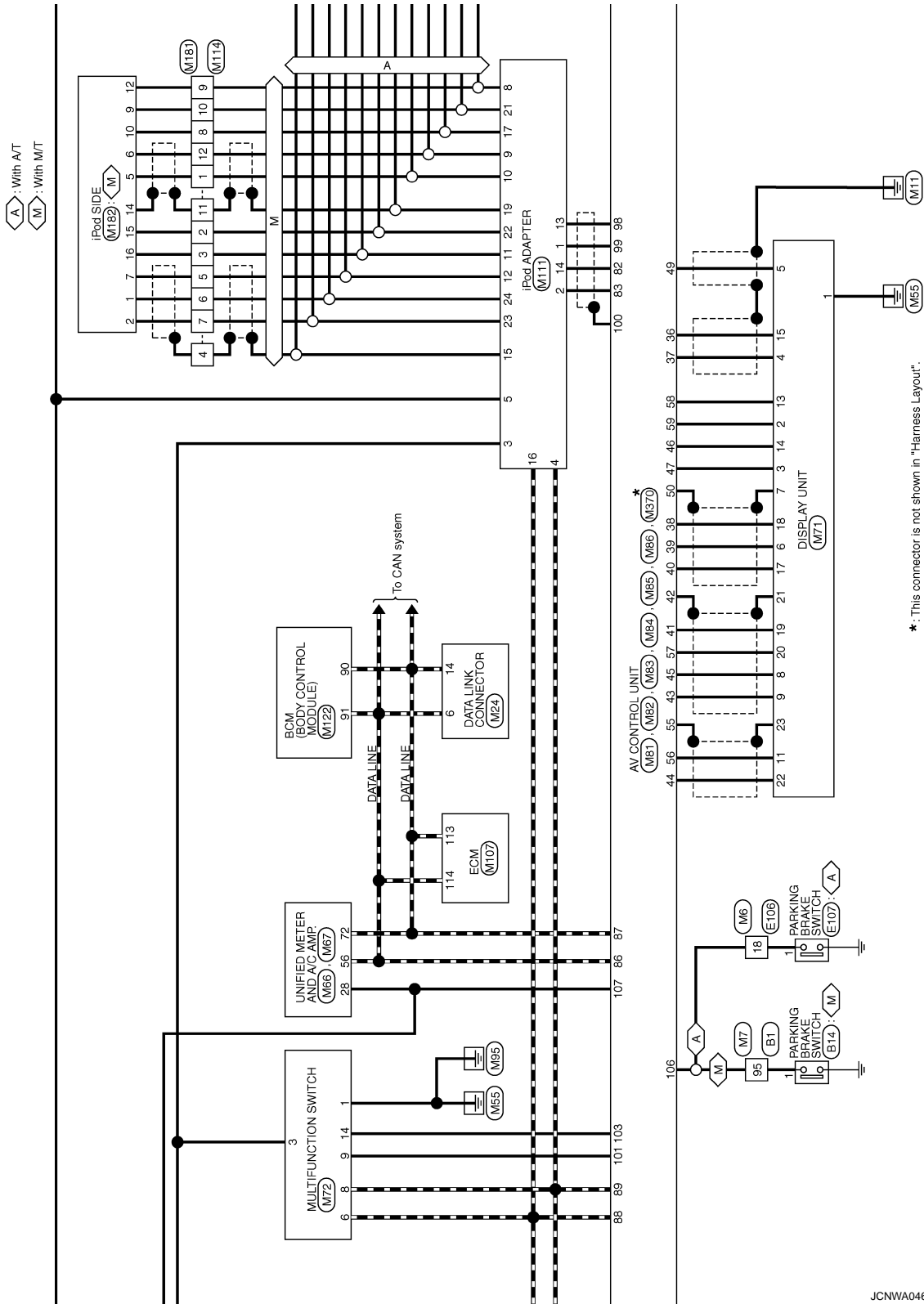
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[BOSE AUDIO WITHOUT NAVIGATION]

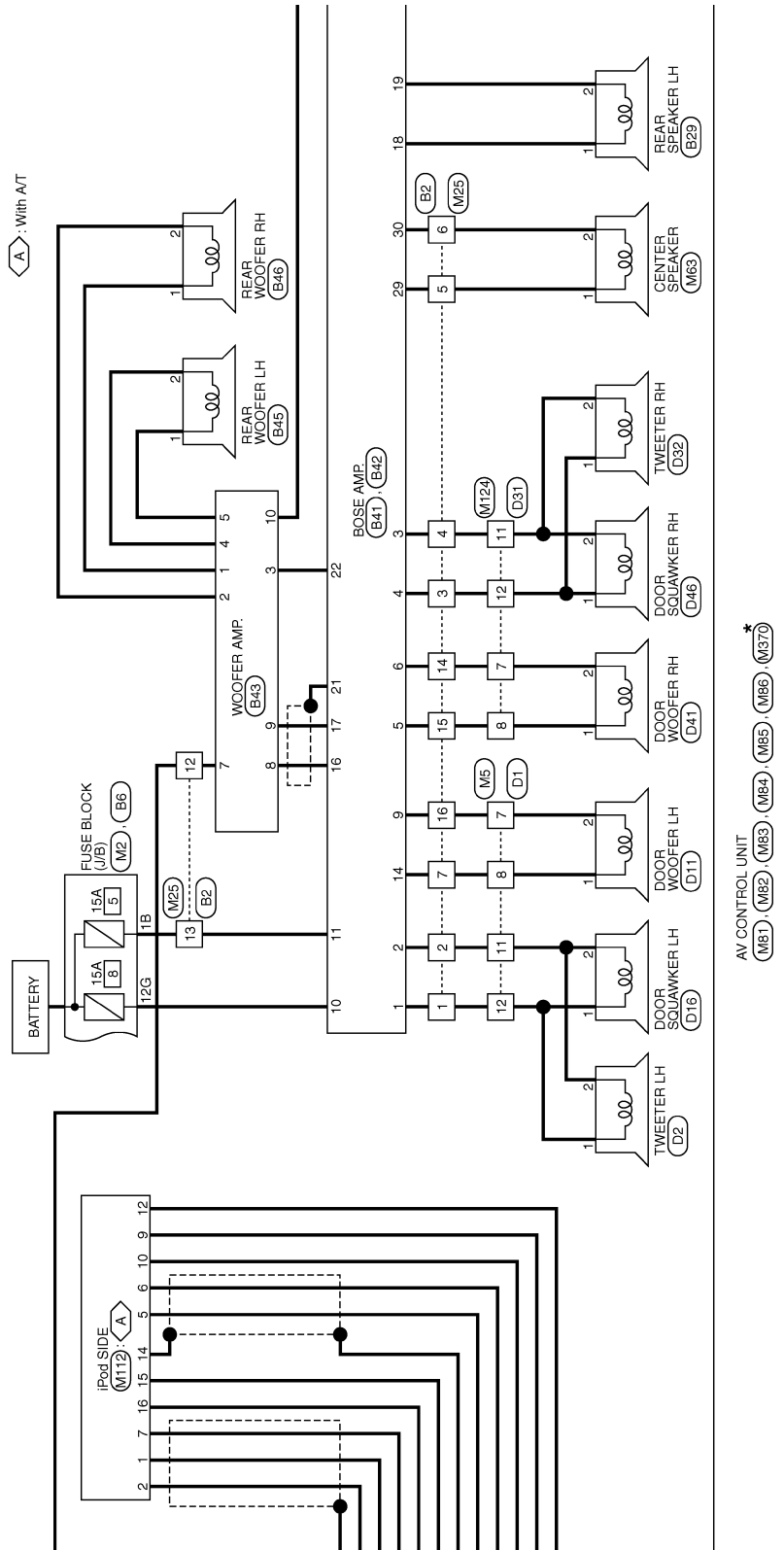


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[BOSE AUDIO WITHOUT NAVIGATION]

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

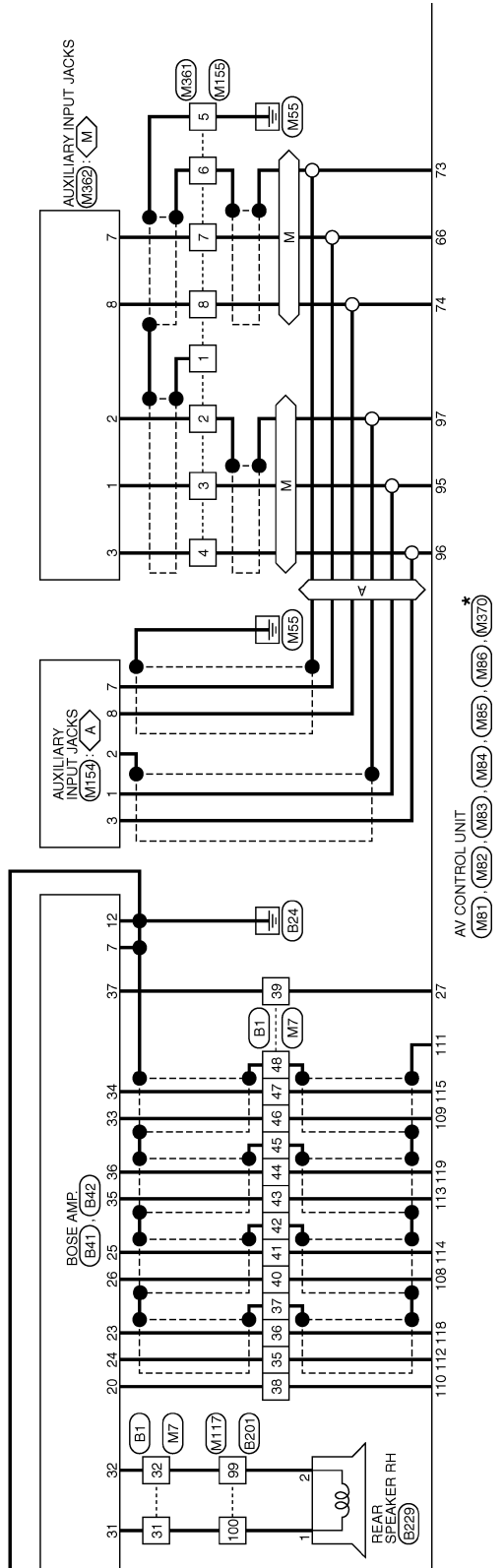
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[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

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



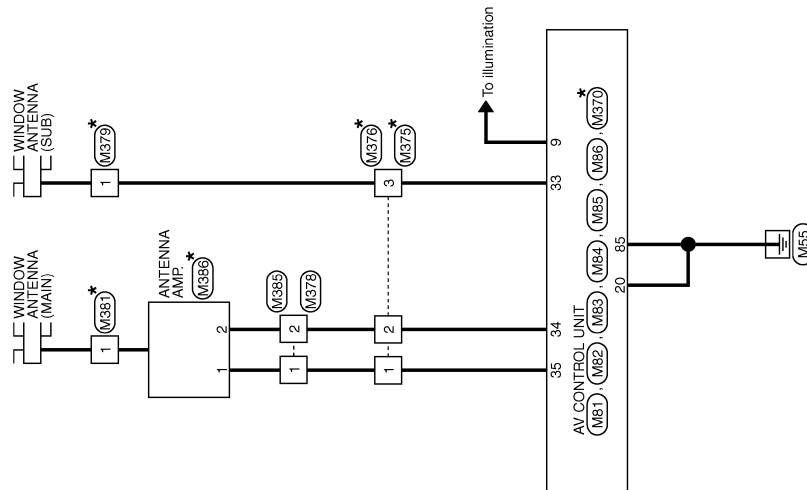
*: This connector is not shown in "Harness Layout".

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[BOSE AUDIO WITHOUT NAVIGATION]



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

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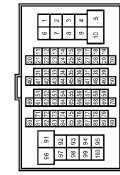
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< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	LG	-
32	Y	-
35	V	-
36	SB	-
37	SHIELD	-
38	W	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	P	-

44	L	-
45	SHIELD	-
46	P	-
47	G	-
48	SHIELD	-
98	V	-



Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



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

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



Connector No.	B14
Connector Name	PARKING BRAKE SWITCH (M/T)
Connector Type	P01FB-A



Connector No.	B29
Connector Name	REAR SPEAKER LH
Connector Type	TK02MBR-P



Terminal No.	1ZG	Y	-
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Terminal No.	1	V	-
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Terminal No.	1	L	-
Terminal No.	2	P	-

16	W	-
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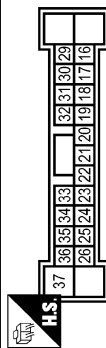
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[BOSE AUDIO WITHOUT NAVIGATION]

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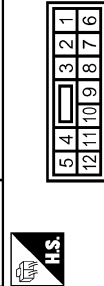
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FER-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
16	SB	SOUND SIGNAL WOOFER (+)
17	V	SOUND SIGNAL WOOFER (-)
18	L	SOUND SIGNAL REAR LH (+)
19	P	SOUND SIGNAL REAR LH (-)
20	W	AMP. ON SIGNAL
21	SHIELD	SHIELD
22	GR	WOOFER AMP. ON SIGNAL
23	SB	SOUND SIGNAL REAR LH (+)
24	V	SOUND SIGNAL REAR LH (-)
25	Y	SOUND SIGNAL REAR RH (+)
26	BR	SOUND SIGNAL REAR RH (-)

Connector No.	B43
Connector Name	WOOFER AMP.
Connector Type	NS12FW-CS

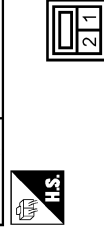


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR WOOFER RH (+)
2	R	REAR WOOFER RH (-)
3	GR	WOOFER AMP. ON SIGNAL
4	B	REAR WOOFER LH (+)
5	W	REAR WOOFER LH (-)
7	Y	BATTERY
8	SB	SOUND SIGNAL WOOFER (+)
9	V	SOUND SIGNAL WOOFER (-)
10	B	GND

29	L	SOUND SIGNAL CENTER (+)
30	O	SOUND SIGNAL CENTER (-)
31	LG	SOUND SIGNAL REAR RH (+)
32	V	SOUND SIGNAL REAR RH (-)
33	R	SOUND SIGNAL FRONT RH (+)
34	G	SOUND SIGNAL FRONT RH (-)
35	P	SOUND SIGNAL FRONT LH (+)
36	L	SOUND SIGNAL FRONT LH (-)
37	SB	MODE CHANGE SIGNAL

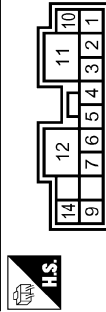
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	DOOR SQUAWKER LH (+)
2	W	DOOR SQUAWKER LH (-)
3	LG	DOOR SQUAWKER RH (+)
4	V	DOOR SQUAWKER RH (-)
5	G	DOOR WOOFER RH (+)
6	R	DOOR WOOFER RH (-)
7	B	GND
9	W	DOOR WOOFER LH (+)
10	Y	BATTERY
11	GR	BATTERY
12	B	GND

Connector No.	B46
Connector Name	REAR WOOFER RH
Connector Type	NS12FW-CS



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

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



14	B	DOOR WOOFER LH (+)
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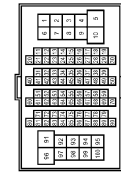
DISPLAY UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-GS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	G	-
32	R	-
40	GR	-
41	LG	-
42	W	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	G	-
48	Y	-

49	SHIELD	-
50	P	-
63	L	-
64	P	-
71	SB	-
72	Y	-
73	O	-
80	V	-
81	SHIELD	-
82	BR	-
83	SHIELD	-
84	G	-
85	W	-
86	R	-
87	B	-
99	P	-
100	L	-

Connector No.	B229
Connector Name	REAR SPEAKER RH
Connector Type	TK02MBR-P



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

Connector No.	B236
Connector Name	SATELLITE RADIO TUNER
Connector Type	A16PW



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

16	V	ACC
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Connector No.	B237
Connector Name	TEL ADAPTER UNIT
Connector Type	TH82FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	BATTERY
2	LG	ACC
3	W	IGNITION
4	B	GND
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	B	MICROPHONE SIGNAL
8	R	MICROPHONE GND
9	Y	TEL VOICE SIGNAL (+)
10	G	TEL VOICE SIGNAL (-)
14	B	GND

19	B	GND
22	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
23	P	VEHICLE SPEED (8-PULSE)
29	W	MICROPHONE VCC

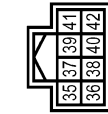
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[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B238
Connector Name	TEL ADAPTER UNIT
Connector Type	TH88FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
35	L	AV COMM (H)
36	P	AV COMM (L)

Connector No.	B471
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-1S-TU



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

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



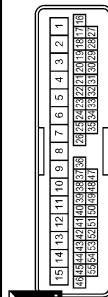
Terminal No.	Color of Wire	Signal Name [Specification]
33	-	SATELLITE ANTENNA
34	SHIELD	SHIELD

Connector No.	B483
Connector Name	SATELLITE RADIO ANTENNA
Connector Type	GT16C-1PP-TU



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

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH4UFW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D2
Connector Name	TWEETER LH
Connector Type	TK02MBR-P



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

Connector No.	D11
Connector Name	DOOR WOOFER LH
Connector Type	NS02FW-CS



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

Connector No.	D16
Connector Name	DOOR SQUAWKER LH
Connector Type	TK02FBR



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

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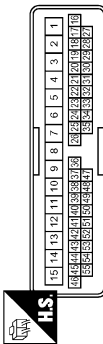
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[BOSE AUDIO WITHOUT NAVIGATION]

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D32
Connector Name	TWEETER RH
Connector Type	TK02MR-P



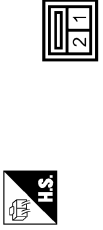
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D41
Connector Name	DOOR WOOFER RH
Connector Type	HS02FW-CS



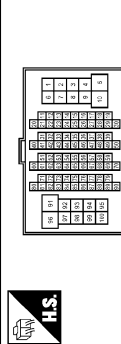
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	D46
Connector Name	DOOR SQUAWKER RH
Connector Type	TK02FB



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

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

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



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

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DG1



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

Connector No.	F56
Connector Name	BACK-UP LAMP SWITCH
Connector Type	RK02FB

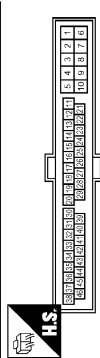


Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-

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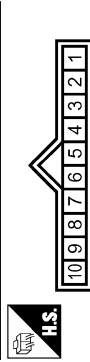
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Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10



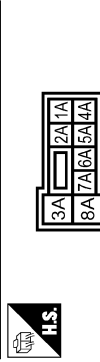
Terminal No.	Color of Wire	Signal Name [Specification]
30	R	-
31	R	-
41	O	-

Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SPT0FBGY



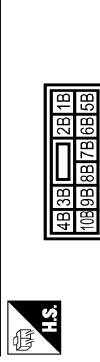
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

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



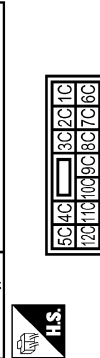
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



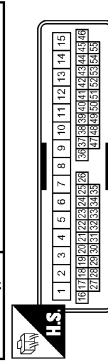
Terminal No.	Color of Wire	Signal Name [Specification]
1B	SB	-

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



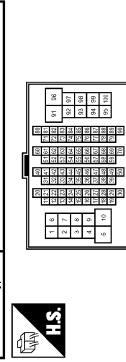
Terminal No.	Color of Wire	Signal Name [Specification]
12C	R	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
7	W	-
8	B	-
11	W	-
12	L	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

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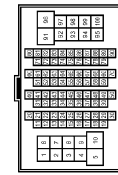
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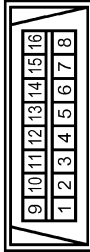
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	P	-
35	O	-
36	W	-
37	SHIELD	-
38	SB	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	O	-

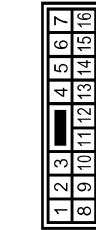
44	W	-
45	SHIELD	-
46	P	-
47	G	-
48	SHIELD	-
49	O	-

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



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

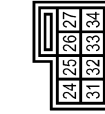
Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	MS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	GR	-
5	L	-
6	LG	-
7	B	-
12	Y	-
13	SB	-
14	R	-
15	G	-

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



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

Connector No.	M33
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



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

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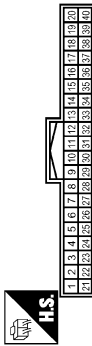
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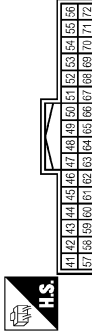
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



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

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



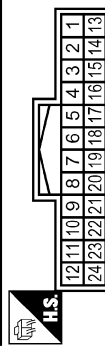
Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS30FL-M2



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

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



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

14	LG	SIGNAL GND
15	R	AUX IMAGE SIGNAL
17	G	RGB (RED) SIGNAL
18	P	RGB (BLUE) SIGNAL
19	Y	RGB SYNC
20	GR	VP
21	SHIELD	SHIELD
22	G	COMM (DISP->CONT)
23	SHIELD	SHIELD

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	L	ACC
6	SB	AV COMM (H)
8	W	AV COMM (L)
9	BR	SW GND
14	LG	ELECT SIGNAL (Without NAVI)

Connector No.	M81
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH16FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
6	G	STRG SW A
7	V	ACC
9	L	ILLUMINATION
15	B	STRG SW GND
18	L	STRG SW B
19	Y	BATTERY
20	B	GND

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DISPLAY UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



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



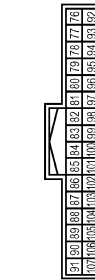
Connector No.	M84
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-NH



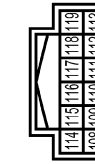
Terminal No.	Color of Wire	Signal Name [Specification]
21	W	SOUND SIGNAL LH (-)
22	B	SOUND SIGNAL LH (+)
23	R	SOUND SIGNAL RH (-)
24	G	SOUND SIGNAL RH (+)
25	SHIELD	SHIELD
26	SHIELD	SHIELD
27	SB	MODE CHANGE SIGNAL
28	P	REQUEST (SAT->CONT)
29	G	COMM (SAT->CONT)
30	L	COMM (CONT->SAT)

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

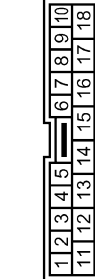
Connector No.	M85
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH32FW-NH



Connector No.	M86
Connector Name	AV CONTROL UNIT (WITH BOSE SYSTEM)
Connector Type	TH12FW-NH



Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK (DIMP)-NS



Terminal No.	Color of Wire	Signal Name [Specification]
79	P	TEL VOICE SIGNAL (-)
80	L	TEL VOICE SIGNAL (+)
81	SHIELD	SHIELD
82	G	iPod SOUND SIGNAL RH (-)
83	B	iPod SOUND SIGNAL RH (+)
84	B	GND
85	B	GND
86	L	CAN-H
87	P	CAN-L
88	V	AV COMM (H)
89	LG	AV COMM (L)
90	L	AV COMM (H)

Terminal No.	Color of Wire	Signal Name [Specification]
108	BR	SOUND SIGNAL REAR RH (-)
109	R	SOUND SIGNAL FRONT RH (+)
110	SB	AMP ON SIGNAL
111	SHIELD	SHIELD
112	O	SOUND SIGNAL REAR LH (+)
113	O	SOUND SIGNAL FRONT LH (+)
114	Y	SOUND SIGNAL REAR RH (-)
115	G	SOUND SIGNAL FRONT RH (-)
116	W	SOUND SIGNAL REAR LH (-)
117	W	SOUND SIGNAL FRONT LH (-)
118	W	SOUND SIGNAL REAR LH (-)
119	W	SOUND SIGNAL FRONT LH (-)

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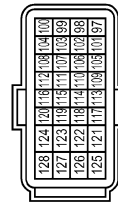
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[BOSE AUDIO WITHOUT NAVIGATION]

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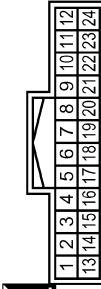
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M107
Connector Name	EOM
Connector Type	RH24GY-R28-R-LH-Z



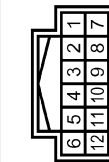
Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-L1
114	L	VEHCAN-H1

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (-)
2	B	iPod SOUND SIGNAL RH (-)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER (With A/T)
9	L	CHARGE POWER (With M/T)
10	L	COMM (iPod ADAPTER->iPod)
11	O	COMM (iPod->iPod ADAPTER)
12	W	ACCESSORY IDENTIFY

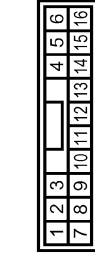
Connector No.	M114
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



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

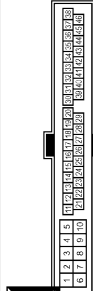
13	W	iPod SOUND SIGNAL LH (-)
14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	GC	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	R	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	HF18GY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

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



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

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
31	V	-
32	LG	-
40	Y	-
41	G	-
42	V	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	P	-
48	L	-

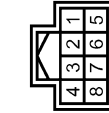
Connector No.	M134
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AUSPW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (c)
2	SHIELD	SHIELD [Without NAVI]
3	W	SOUND SIGNAL LH (c)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

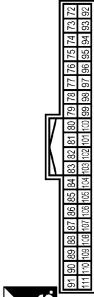
49	SHIELD	-
50	BR	-
63	L	-
64	P	-
71	Y	-
72	P	-
73	G	-
80	W	-
81	SHIELD	-
82	L	-
83	SHIELD	-
84	W	-
85	R	-
86	B	-
87	G	-
99	P	-
100	L	-

Connector No.	M155
Connector Name	WIRE TO WIRE
Connector Type	TH08PW-NH



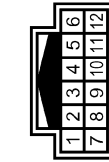
Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	SHIELD	- [Without NAVI]
3	R	-
4	W	-
5	B	-
6	SHIELD	-
7	G	-
8	R	-

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



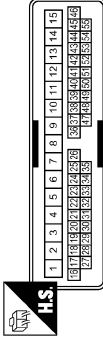
Terminal No.	Color of Wire	Signal Name [Specification]
90	P	GAN-L
91	L	GAN-H

Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



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

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-GS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	GR	-
12	BR	-

Terminal No.	12	P
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DISPLAY UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M182
Connector Name	iPod SIDE
Connector Type	IP182GY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	L	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK03GY



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

Connector No.	M361
Connector Name	WIRE TO WIRE
Connector Type	TH03MM-NH



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

Connector No.	M382
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB02W



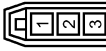
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	SOUND SIGNAL RH (+) [Without NAV]
2	SHIELD	SHIELD [Without NAV]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

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



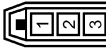
Terminal No.	Color of Wire	Signal Name [Specification]
33	-	FM SUB
34	-	AM FM MAIN
35	-	ANTENNA AMP. ON SIGNAL

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



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

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCH-2/1PP-HU



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

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-1/1PP-HU



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

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



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



Terminal No.	1	Color of Wire	-	Signal Name [Specification]	-
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Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/1S-HU



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

Connector No.	M386
Connector Name	ANTENNA AMP.
Connector Type	GT13SC-1/1S-HU



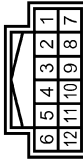
Terminal No.	1	Color of Wire	-	Signal Name [Specification]	ANTENNA AMP. ON SIGNAL
2	-	-	-	-	AM-FM MAIN

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TK0PW-NS8



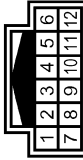
Terminal No.	1	Color of Wire	G	Signal Name [Specification]	- [Without NAV]
2	Y	-	-	-	- [Without NAV]
3	SHIELD	-	-	-	- [Without NAV]

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12PW-NH



Terminal No.	3	Color of Wire	SHIELD	Signal Name [Specification]	-
4	G	-	-	-	- [Without NAV]
5	Y	-	-	-	- [Without NAV]

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	3	Color of Wire	SHIELD	Signal Name [Specification]	-
4	W	-	-	-	-
5	R	-	-	-	-

Connector No.	R17
Connector Name	MICROPHONE
Connector Type	TK03FW



Terminal No.	1	Color of Wire	W	Signal Name [Specification]	MICROPHONE SIGNAL
2	SHIELD	-	-	-	SHIELD
4	R	-	-	-	MICROPHONE VCC

NOTE:

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

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BOSE AMP.

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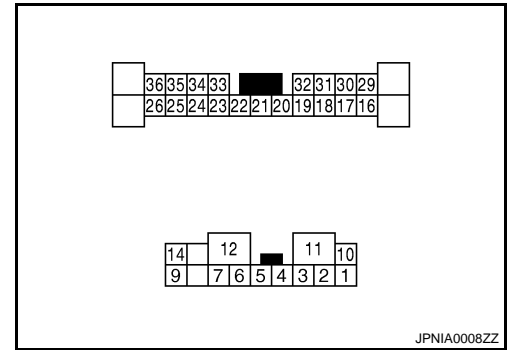
[BOSE AUDIO WITHOUT NAVIGATION]

BOSE AMP.

Reference Value

INFOID:000000001687742

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/Output			
1 (L)	2 (W)	Sound signal door squawker LH	Output	Ignition switch ON	Voice output	
4 (V)	3 (LG)	Sound signal door squawker RH	Output	Ignition switch ON	Voice output	
5 (G)	6 (R)	Sound signal door woofer RH	Output	Ignition switch ON	Voice output	
7 (B)	Ground	GND	—	Ignition switch ON	—	0 V
10 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
11 (GR)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
12 (B)	Ground	GND	—	Ignition switch ON	—	0 V

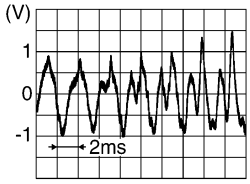
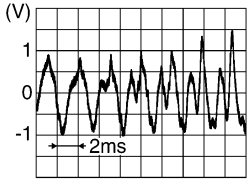
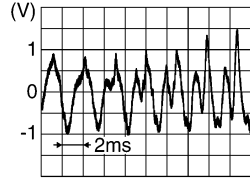
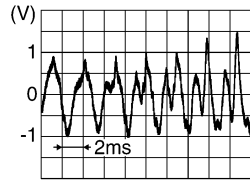
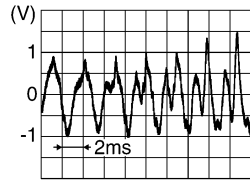
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BOSE AMP.

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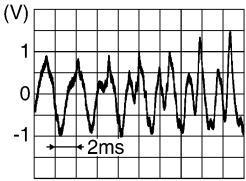
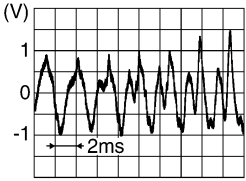
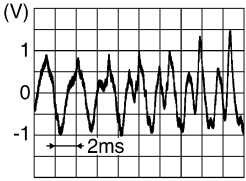
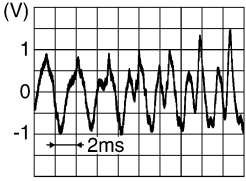
[BOSE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
14 (B)	9 (W)	Sound signal door woofer LH	Output	Ignition switch ON	Voice output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
16 (SB)	17 (V)	Sound signal rear woofer	Output	Ignition switch ON	Voice output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
18 (L)	19 (P)	Sound signal rear speaker LH	Output	Ignition switch ON	Voice output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
20 (W)	Ground	Amp. ON signal	Input	Ignition switch ACC	—	10 V
21	—	Shield	—	—	—	—
22 (GR)	Ground	Woofer Amp. ON signal	Output	Ignition switch ACC	—	10 V
24 (V)	23 (SB)	Sound signal rear LH	Input	Ignition switch ON	Voice output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
26 (BR)	25 (Y)	Sound signal rear RH	Input	Ignition switch ON	Voice output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>

BOSE AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
29 (L)	30 (O)	Sound signal center speaker	Output	Ignition switch ON	Voice output	 SKIB3609E
31 (LG)	32 (Y)	Sound signal rear speaker RH	Output	Ignition switch ON	Voice output	 SKIB3609E
33 (R)	34 (G)	Sound signal front RH	Input	Ignition switch ON	Voice output	 SKIB3609E
35 (P)	36 (L)	Sound signal front LH	Input	Ignition switch ON	Voice output	 SKIB3609E
37 (SB)	Ground	Mode change signal	Input	Ignition switch ON	Driver's Audio Stage ON	0 V
				Ignition switch OFF	Driver's Audio Stage OFF	8.5 V

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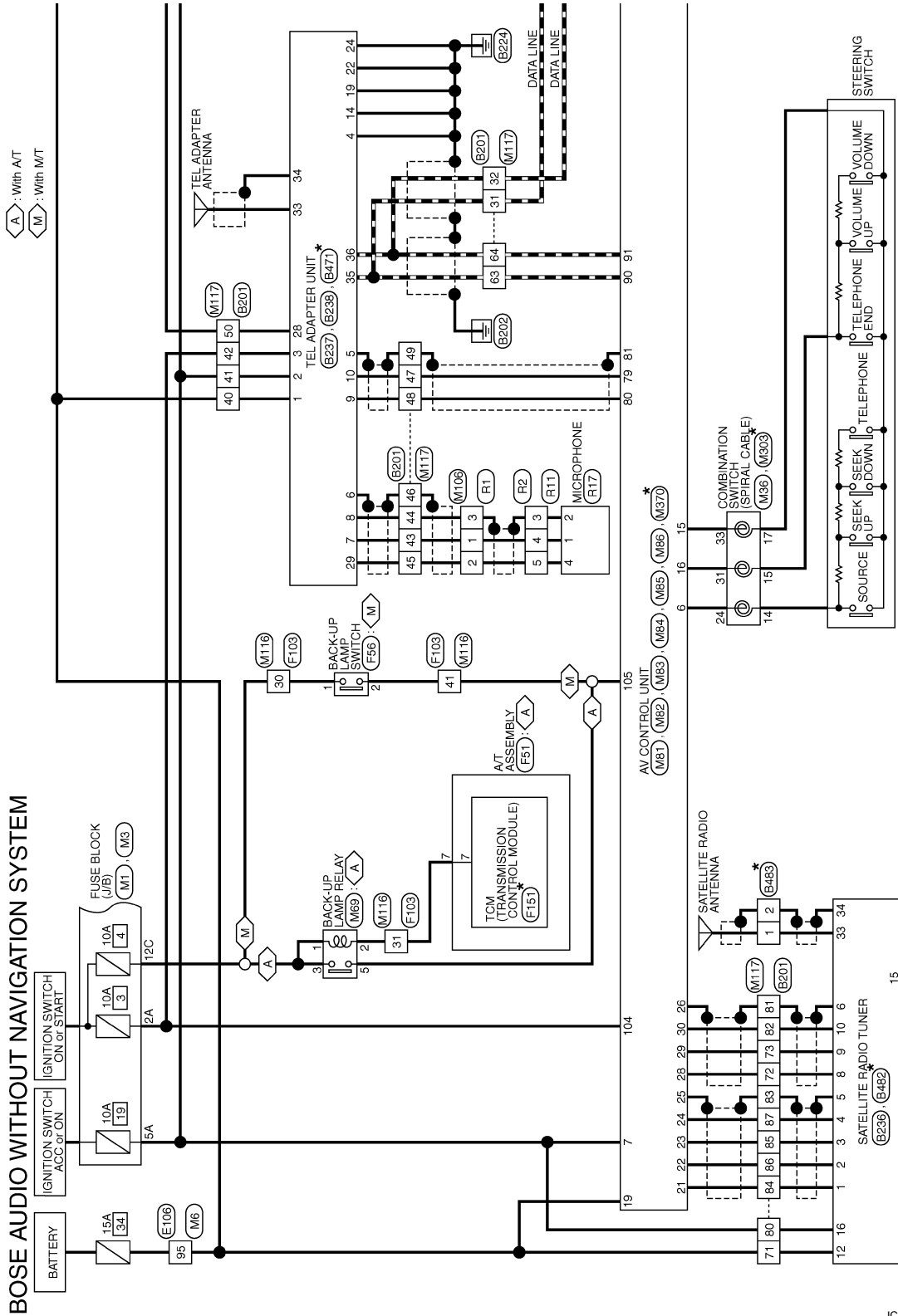
BOSE AMP.

[BOSE AUDIO WITHOUT NAVIGATION]

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Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

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

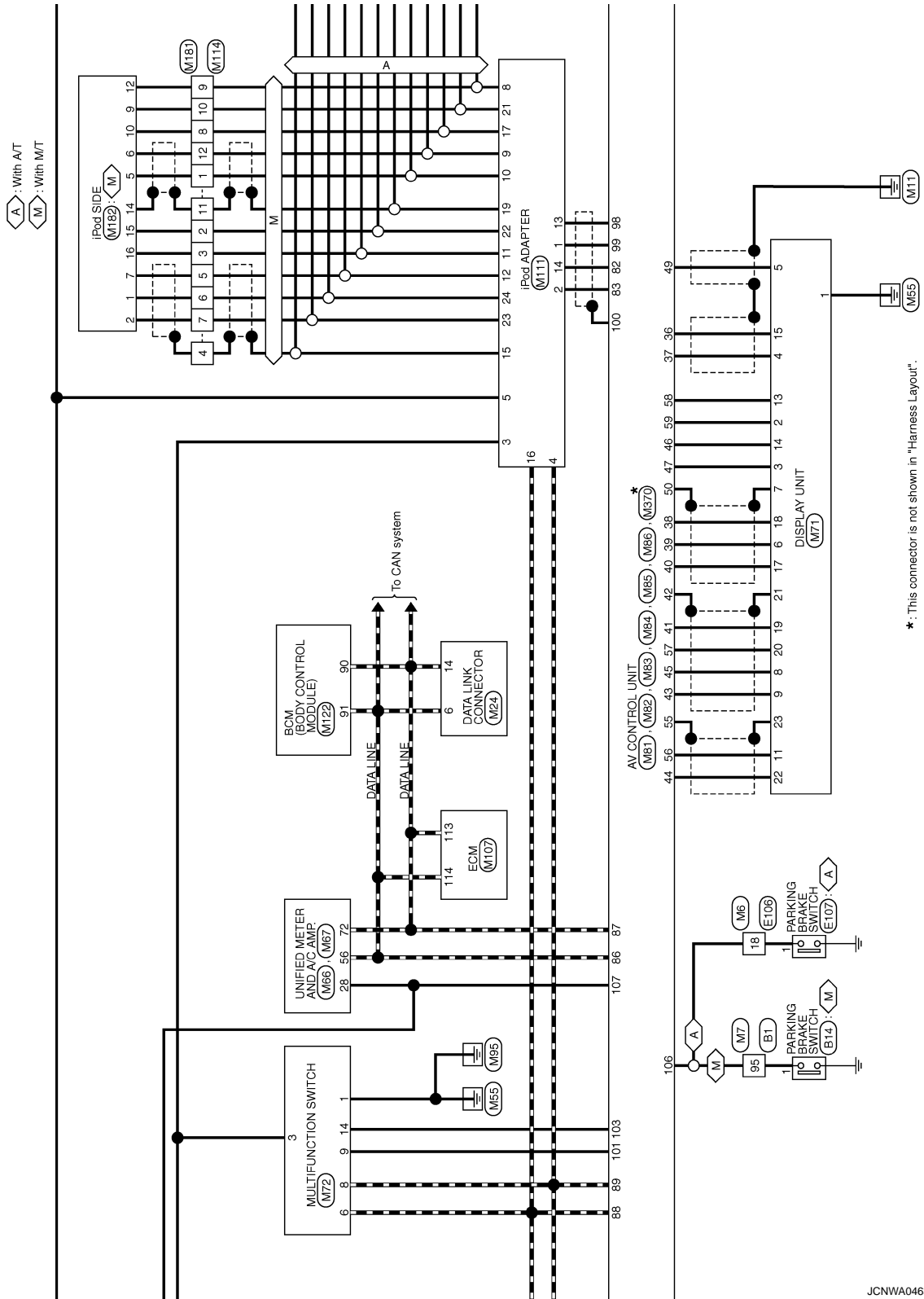
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BOSE AMP.

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[BOSE AUDIO WITHOUT NAVIGATION]



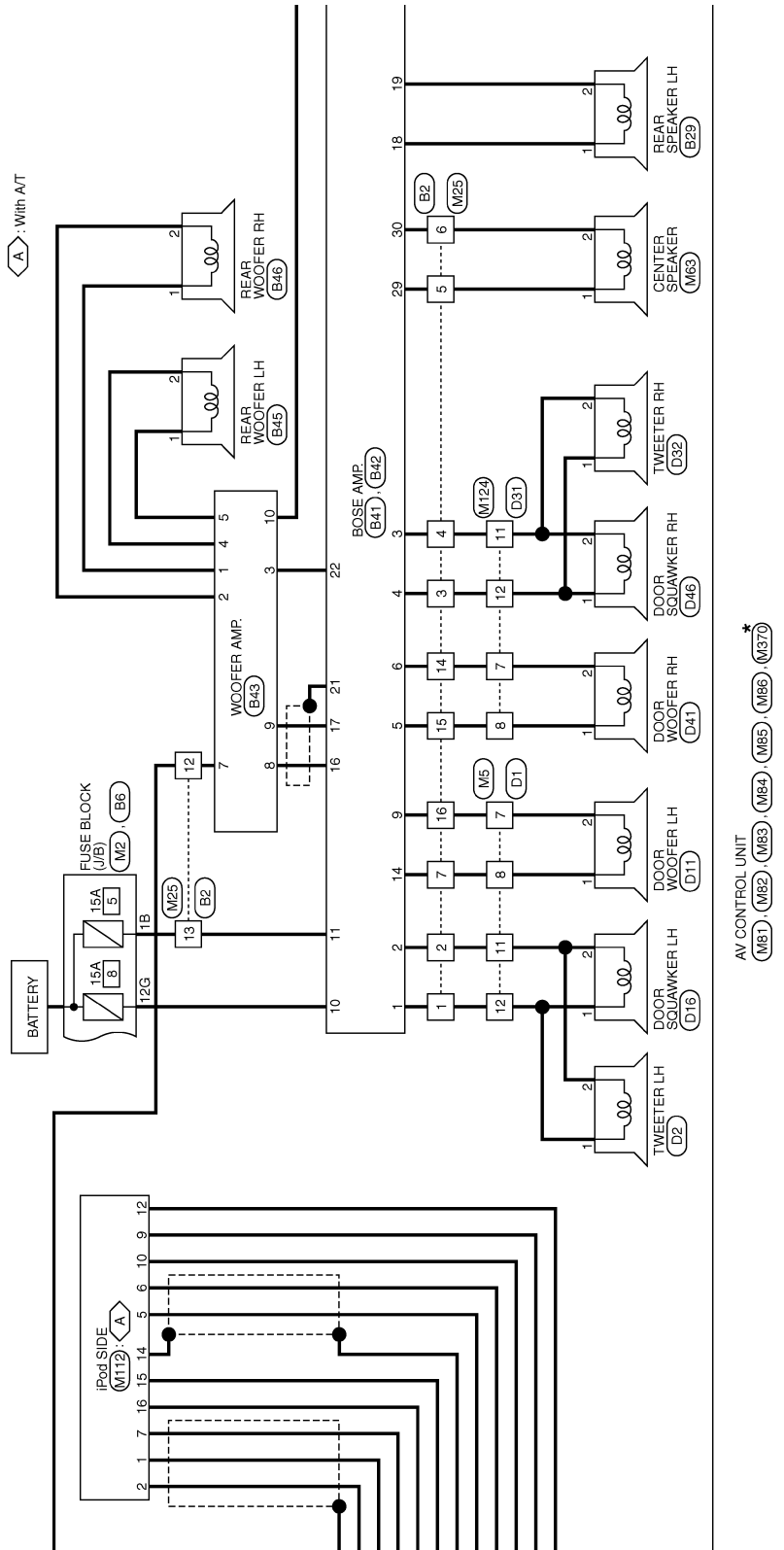
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BOSE AMP.

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[BOSE AUDIO WITHOUT NAVIGATION]



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

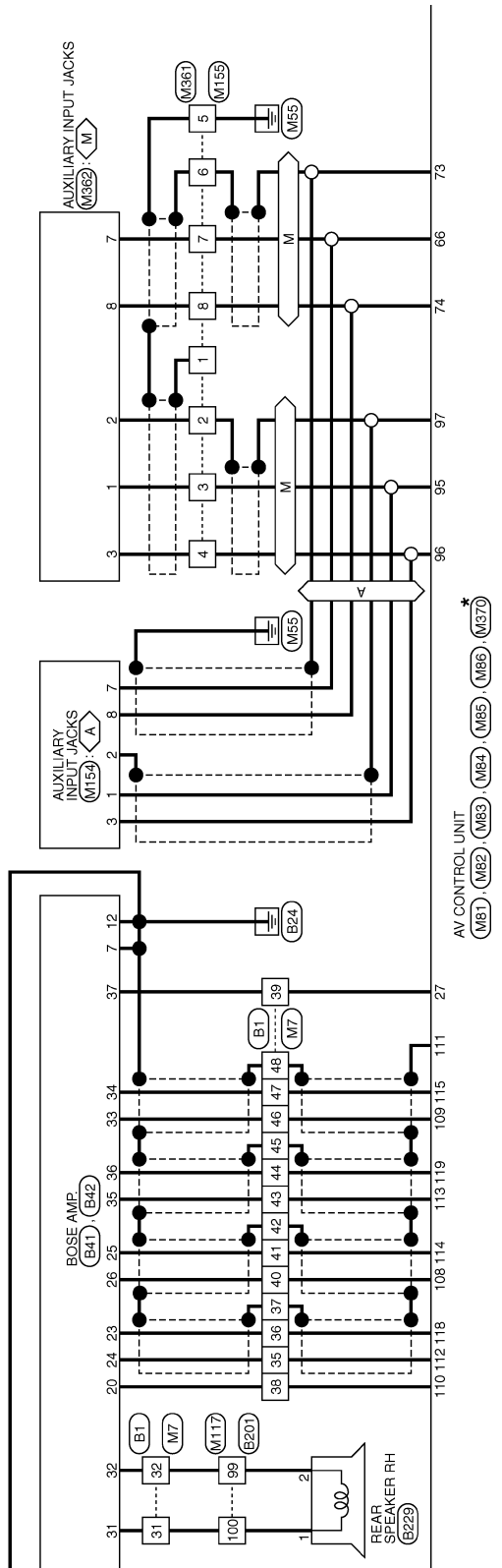
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BOSE AMP.

[BOSE AUDIO WITHOUT NAVIGATION]

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



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

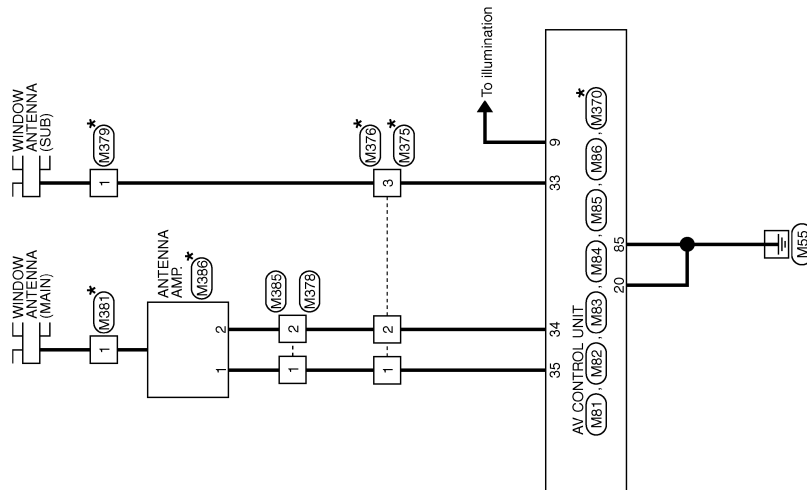
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BOSE AMP.

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[BOSE AUDIO WITHOUT NAVIGATION]



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

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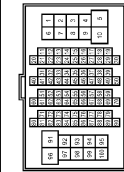
BOSE AMP.

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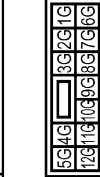
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH00TW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	LG	-
32	Y	-
35	V	-
36	SB	-
37	SHIELD	-
38	W	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	P	-

Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	MS12FBR-CS



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

44	L	-
45	SHIELD	-
46	F	-
47	G	-
48	SHIELD	-
95	V	-

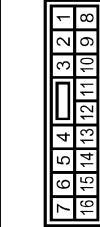


Connector No.	B14
Connector Name	PARKING BRAKE SWITCH (M/T)
Connector Type	P01FB-A



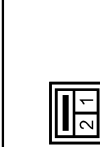
Terminal No.	1	V	-
Color of Wire			
Signal Name [Specification]			

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	MS16FW-CS



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

Connector No.	B29
Connector Name	REAR SPEAKER LH
Connector Type	TK02MBR-P



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

16	W	-
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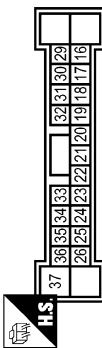
BOSE AMP.

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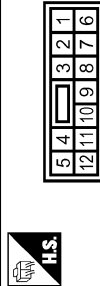
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA12FER-SG44



Terminal No.	Color of Wire	Signal Name [Specification]
16	SB	SOUND SIGNAL WOOFER (+)
17	V	SOUND SIGNAL WOOFER (-)
18	L	SOUND SIGNAL REAR LH (+)
19	P	SOUND SIGNAL REAR LH (-)
20	W	AMP_ON SIGNAL
21	SHIELD	SHIELD
22	GR	WOOFER AMP_ON SIGNAL
23	SB	SOUND SIGNAL REAR LH (+)
24	V	SOUND SIGNAL REAR LH (-)
25	Y	SOUND SIGNAL REAR RH (+)
26	BR	SOUND SIGNAL REAR RH (-)

Connector No.	B43
Connector Name	WOOFER AMP.
Connector Type	NS12PW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR WOOFER RH (+)
2	R	REAR WOOFER RH (-)
3	GR	WOOFER AMP_ON SIGNAL
4	B	REAR WOOFER LH (+)
5	W	REAR WOOFER LH (-)
7	Y	BATTERY
8	SB	SOUND SIGNAL WOOFER (+)
9	V	SOUND SIGNAL WOOFER (-)
10	B	GND

29	L	SOUND SIGNAL CENTER (+)
30	O	SOUND SIGNAL CENTER (-)
31	LG	SOUND SIGNAL REAR RH (+)
32	V	SOUND SIGNAL REAR RH (-)
33	R	SOUND SIGNAL FRONT RH (+)
34	G	SOUND SIGNAL FRONT RH (-)
35	P	SOUND SIGNAL FRONT LH (+)
36	L	SOUND SIGNAL FRONT LH (-)
37	SB	MODE CHANGE SIGNAL

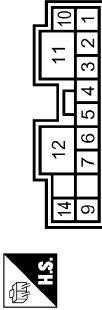
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	DOOR SQUAWKER LH (+)
2	W	DOOR SQUAWKER LH (-)
3	LG	DOOR SQUAWKER RH (-)
4	V	DOOR SQUAWKER RH (+)
5	G	DOOR WOOFER RH (+)
6	R	DOOR WOOFER RH (-)
7	B	GND
9	W	DOOR WOOFER LH (+)
10	Y	BATTERY
11	GR	BATTERY
12	B	GND

Connector No.	B46
Connector Name	REAR WOOFER RH
Connector Type	NS32PW-CS



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

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

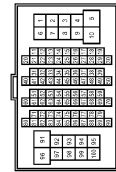


14	B	DOOR WOOFER LH (+)
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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
31	G	-
32	R	-
40	GR	-
41	LG	-
42	W	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	G	-
48	Y	-

Connector No.	B229
Connector Name	REAR SPEAKER RH
Connector Type	TK02MR-P



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

Connector No.	B226
Connector Name	SATELLITE RADIO TUNER
Connector Type	A16FW



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

16	V	ACC
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Connector No.	B237
Connector Name	TEL ADAPTER UNIT
Connector Type	TH82FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	BATTERY
2	LG	ACC
3	W	IGNITION
4	B	GND
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	B	MICROPHONE SIGNAL
8	R	MICROPHONE GND
9	Y	TEL VOICE SIGNAL (+)
10	G	TEL VOICE SIGNAL (-)
14	B	GND

19	B	GND
22	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
28	P	VEHICLE SPEED (8-PULSE)
29	W	MICROPHONE VCC

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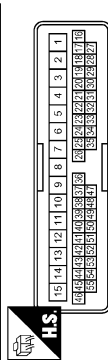
BOSE AMP.

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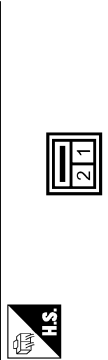
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



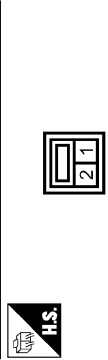
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D32
Connector Name	TWEETER RH
Connector Type	TK02MBR-P



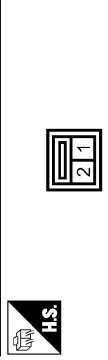
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D41
Connector Name	DOOR WOOFER RH
Connector Type	NS02FW-CS



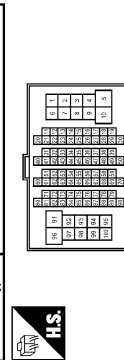
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	D46
Connector Name	DOOR SQUAWKER RH
Connector Type	TK02FBR



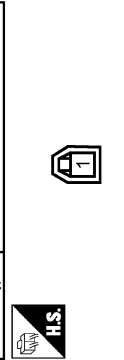
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-CS16-TM4



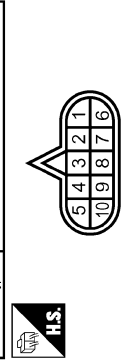
Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH (A,T)
Connector Type	TB01FW



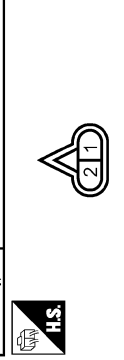
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	FR10FG-DGY



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

Connector No.	F56
Connector Name	BACK-UP LAMP SWITCH
Connector Type	FR02FBB

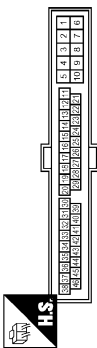


Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



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

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



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

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



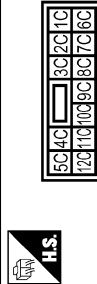
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



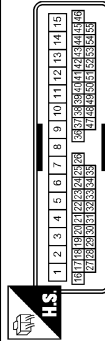
Terminal No.	Color of Wire	Signal Name [Specification]
1B	SB	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12PW-CS



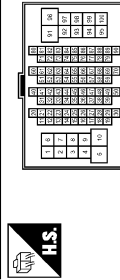
Terminal No.	Color of Wire	Signal Name [Specification]
12C	R	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
7	W	-
8	B	-
11	W	-
12	L	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

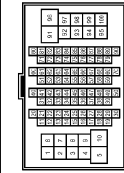
BOSE AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

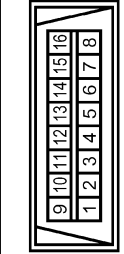
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	P	-
35	O	-
36	W	-
37	SHIELD	-
38	SB	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	O	-

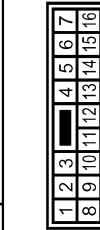
44	W	-
45	SHIELD	-
46	F	-
47	C	-
48	SHIELD	-
95	O	-

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



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

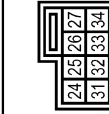
Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	MS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	GR	-
5	L	-
6	LG	-
7	B	-
12	Y	-
13	SB	-
14	R	-
15	G	-

16	W	-
----	---	---

Connector No.	M26
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-TV



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

Connector No.	M33
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



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

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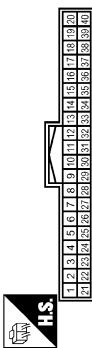
BOSE AMP.

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



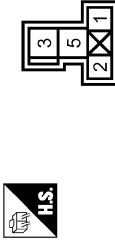
Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

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



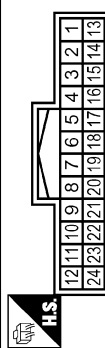
Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS30FL-M2



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

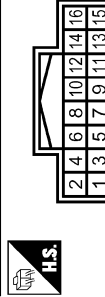
Connector No.	M71
Connector Name	DISPLAY UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH



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

14	LG	SIGNAL GND
15	R	AUX IMAGE SIGNAL
17	G	RGB (RED) SIGNAL
18	P	RGB (BLUE) SIGNAL
19	Y	RGB SYNC
20	GR	VP
21	SHIELD	SHIELD
22	G	COMM (DISP->CONT)
23	SHIELD	SHIELD

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	L	ACC
6	SB	AV COMM (H)
8	W	AV COMM (L)
9	BR	SW GND
14	LG	EJECT SIGNAL [Without NAVI]

Connector No.	M81
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18PW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
6	G	STRG SW A
7	V	ACC
9	L	ILLUMINATION
15	B	STRG SW GND
16	L	STRG SW B
19	Y	BATTERY
20	B	GND

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M82
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH2FW-NH



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

Connector No.	M83
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH2FW-NH



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

Connector No.	M85
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH2FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
79	P	TEL VOICE SIGNAL (-)
80	L	TEL VOICE SIGNAL (+)
81	SHIELD	SHIELD
82	G	iPod SOUND SIGNAL RH (-)
83	B	iPod SOUND SIGNAL RH (+)
85	B	GND
86	P	CAN-H
87	V	CAN-L
88	V	AV COMM (H)
89	LG	AV COMM (L)
90	L	AV COMM (H)

Connector No.	M86
Connector Name	AV CONTROL UNIT (WITH BOSE SYSTEM)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
91	P	AV COMM (L)
95	R	AUX SOUND SIGNAL RH (+)
96	W	AUX SOUND SIGNAL LH (+)
97	SHIELD	SHIELD
98	W	iPod SOUND SIGNAL LH (-)
99	R	iPod SOUND SIGNAL LH (+)
100	SHIELD	SHIELD
101	BR	SW GND
103	LG	EJECT SIGNAL
104	G	IGNITION
105	O	REVERSE
106	SB	PARKING BRAKE
107	GR	VEHICLE SPEED (8-PULSE)

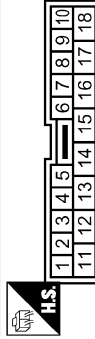
Terminal No.	Color of Wire	Signal Name [Specification]
47	O	SIGNAL VCC
49	Y	SHIELD
50	SHIELD	SHIELD
55	SHIELD	SHIELD
56	L	COMM (CONT->DISP)
57	GR	VP
58	BR	INVERTER GND
59	Y	INVERTER VCC

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



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

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK (DAMP-NIS)



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	- [Without NAVI]
2	W	- [Without NAVI]
3	R	- [Without NAVI]

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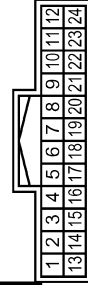
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M107
Connector Name	EOM
Connector Type	RH24GY-R28-R-LH-Z



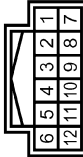
Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHGAN-LI
114	L	VEHGAN-HI

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (-)
2	B	iPod SOUND SIGNAL RH (-)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER [With A/T]
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod->iPod ADAPTER)
11	O	ACCESSORY IDENTITY
12	W	iPod SOUND SIGNAL RH (-)

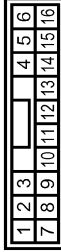
Connector No.	M114
Connector Name	WIRE TO WIRE
Connector Type	TH12PW-NH



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

13	W	iPod SOUND SIGNAL LH (-)
14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	R	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP16FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTITY

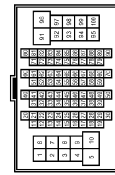
Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK38MM-NS10



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
31	V	-
32	LG	-
40	Y	-
41	G	-
42	V	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	P	-
48	L	-

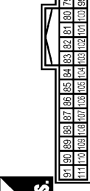
Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	A08PW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+)
2	SHIELD	SHIELD [Without NAV]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

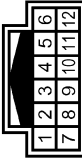
49	SHIELD	-
50	BR	-
53	L	-
63	P	-
64	Y	-
71	P	-
72	G	-
73	W	-
80	SHIELD	-
82	L	-
83	SHIELD	-
84	W	-
85	R	-
86	B	-
87	G	-
99	P	-
100	L	-

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



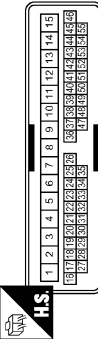
Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH12MMF-NH



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

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



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	GR	-
12	BR	-

Terminal No.	12
Color of Wire	P

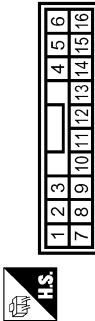
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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M182
Connector Name	iPod SIDE
Connector Type	IP18EGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	L	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK0BFGY



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

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



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

Connector No.	M362
Connector Name	AUXILIARY INPUT JACKS
Connector Type	M08FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	SOUND SIGNAL RH (+) [Without NAV]
2	SHIELD	SHIELD [Without NAV]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M370
Connector Name	AV CONTROL UNIT (WITHOUT NAV)
Connector Type	GTJ3SH-2/IS-HU



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

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GTJ3SC-2/IS-HU



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

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GTJ3SCN-2/IPP-HU















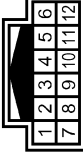



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GTJ3SCN-1/IPP-HU



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

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No. M379	WINDOW ANTENNA (SUB)	P01FB-A			Terminal No. 1	Color of Wire -	Signal Name [Specification] -
Connector No. M381	WINDOW ANTENNA (MAIN)	P01FB-A			Terminal No. 1	Color of Wire -	Signal Name [Specification] -
Connector No. M385	WIRE TO WIRE	GT13SC-1/S-HU			Terminal No. 1 2	Color of Wire - -	Signal Name [Specification] - -
Connector No. M386	ANTENNA AMP.	GT13SC-1/S-HU			Terminal No. 1 2	Color of Wire - -	Signal Name [Specification] ANTENNA AMP. ON SIGNAL AM-FM MAIN
Connector No. R1	WIRE TO WIRE	TK0FW-HS8			Terminal No. 1 2 3	Color of Wire G Y SHIELD	Signal Name [Specification] -[Without NAV] -[Without NAV] -[Without NAV]
Connector No. R1	WIRE TO WIRE	TH12PW-NH			Terminal No. 3 4 5	Color of Wire SHIELD G Y	Signal Name [Specification] - -[Without NAV] -[Without NAV]
Connector No. R11	WIRE TO WIRE	TH12AMP-NH			Terminal No. 3 4 5	Color of Wire SHIELD W R	Signal Name [Specification] - - -
Connector No. R17	MICROPHONE	TK0FW			Terminal No. 1 2 4	Color of Wire W SHIELD R	Signal Name [Specification] MICROPHONE SIGNAL SHIELD MICROPHONE VCC

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

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WOOFER AMP.

[BOSE AUDIO WITHOUT NAVIGATION]

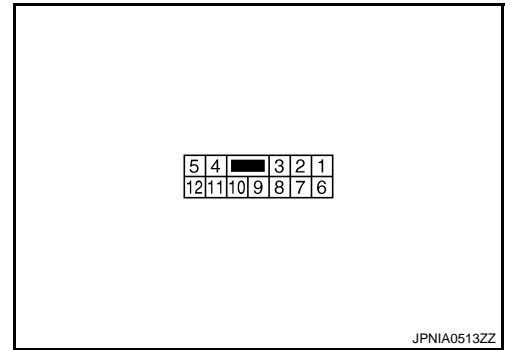
< ECU DIAGNOSIS >

WOOFER AMP.

Reference Value

INFOID:000000001679299

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (G)	2 (R)	Sound signal rear woofer RH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>
3 (GR)	Ground	Woofer amp. ON signal	Input	Ignition switch ON	Voice output	10 V
5 (W)	4 (B)	Sound signal rear woofer LH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>
7 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
8 (SB)	9 (V)	Sound signal rear woofer	Input	Ignition switch ON	Voice output	<p>SKIB3609E</p>
10 (B)	Ground	GND	—	Ignition switch ON	—	0 V

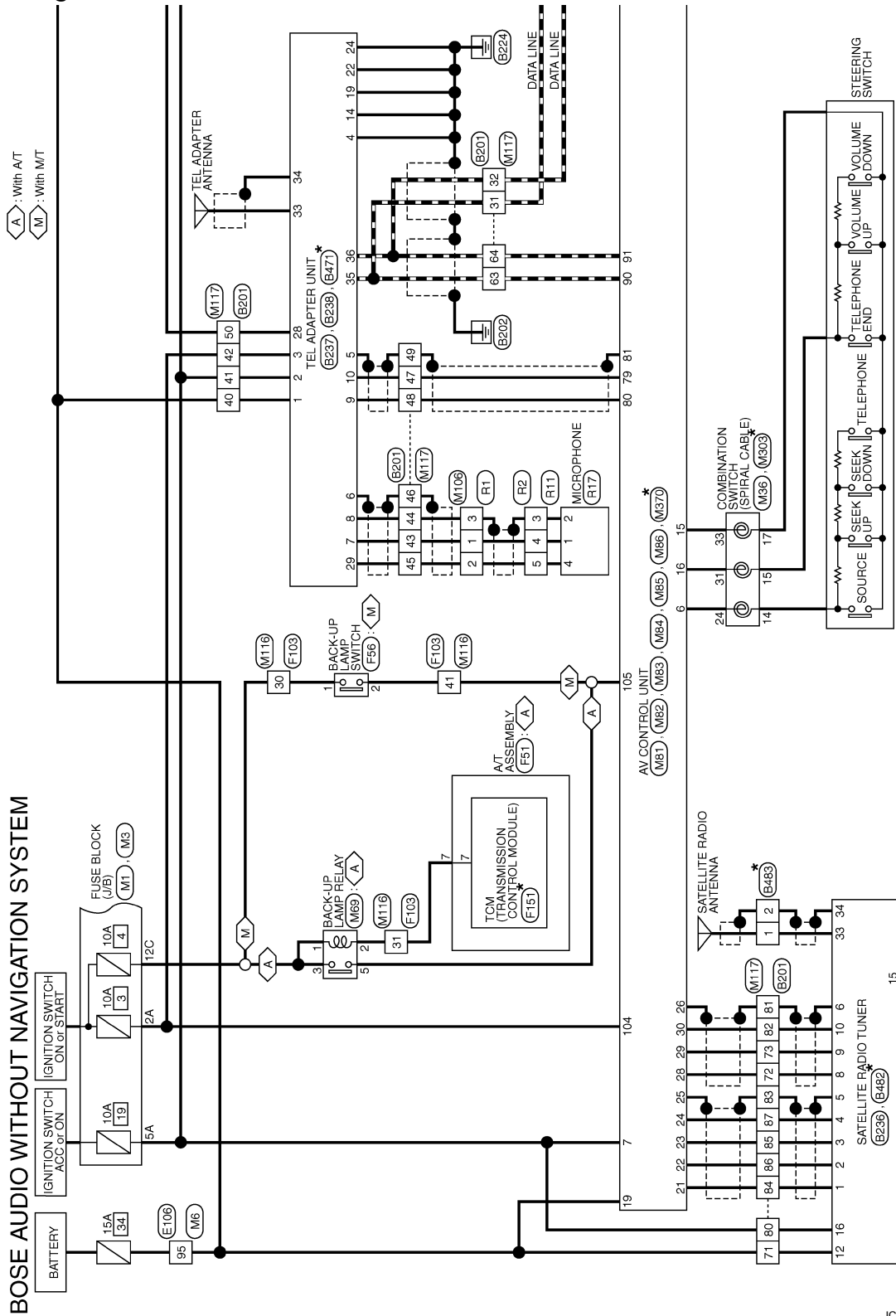
WOOFER AMP.

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

INFOID:000000001689690



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

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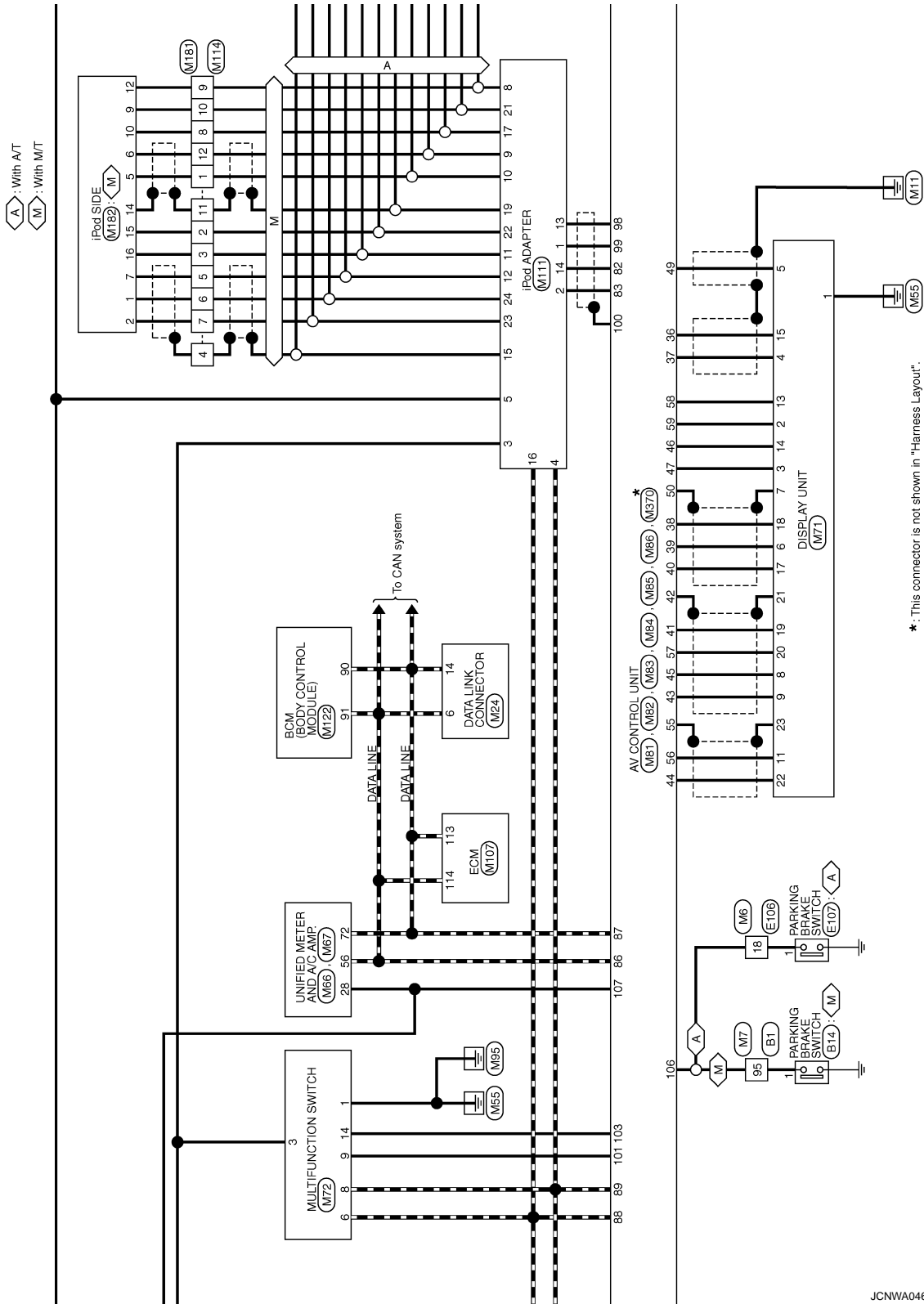
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WOOFER AMP.

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[BOSE AUDIO WITHOUT NAVIGATION]



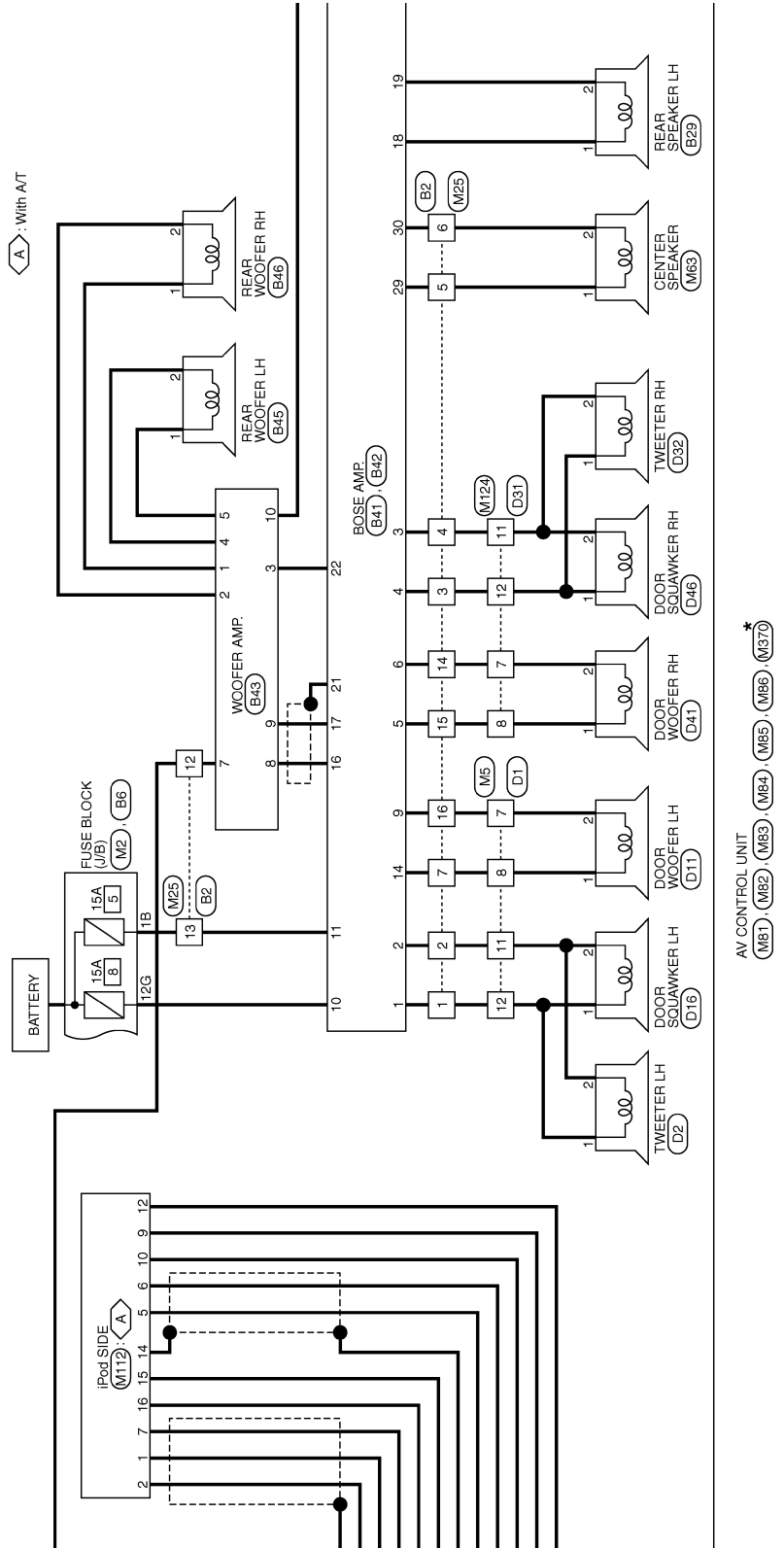
*: This connector is not shown in "Harness Layout".

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WOOFER AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]



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

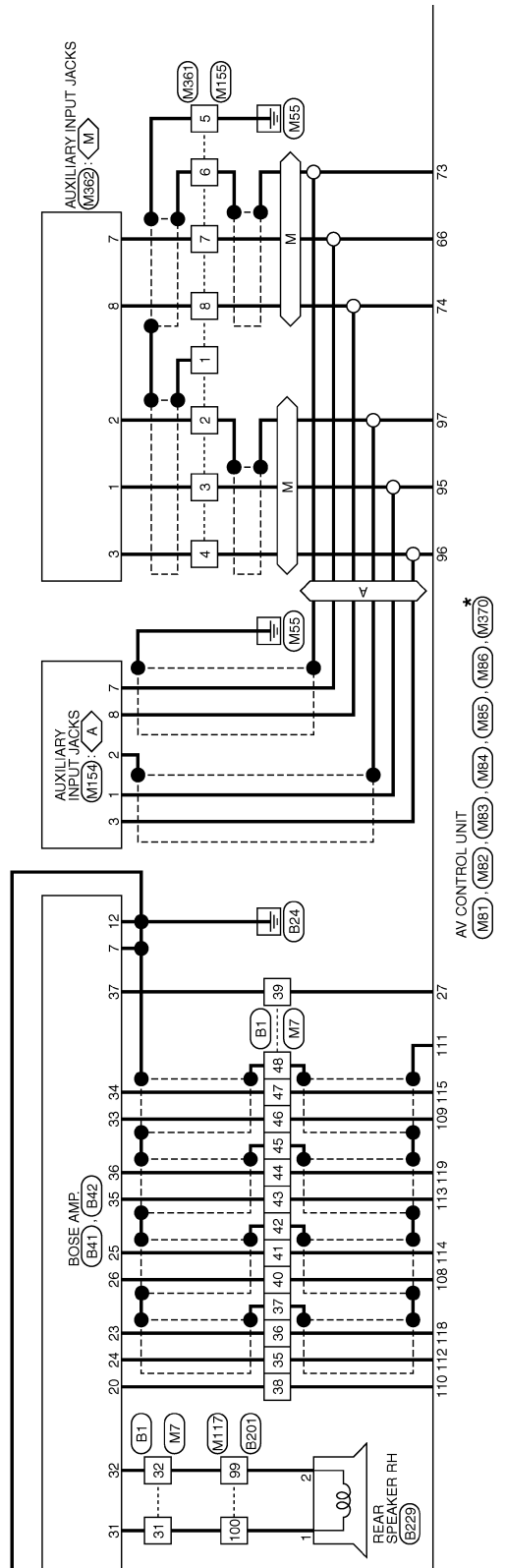
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WOOFER AMP.

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

⬠ : With A/T
⬠ : With M/T



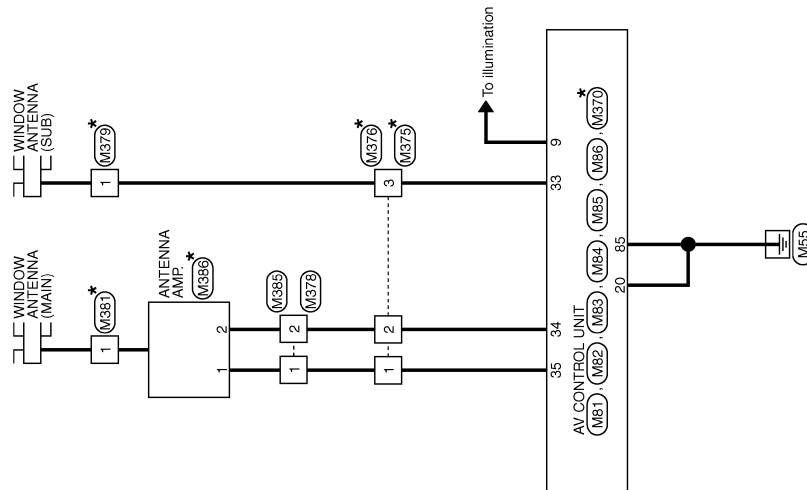
*: This connector is not shown in "Harness Layout".

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WOOFER AMP.

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[BOSE AUDIO WITHOUT NAVIGATION]



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

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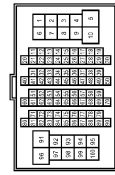
WOOFER AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	LG	-
32	Y	-
35	V	-
36	SB	-
37	SHIELD	-
38	W	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	P	-



Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	MS12PBR-CS



Terminal No.	IZG	Color of Wire	Y	Signal Name [Specification]	-
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44	L	-
45	SHIELD	-
46	P	-
47	G	-
48	SHIELD	-
98	V	-



Connector No.	B14
Connector Name	PARKING BRAKE SWITCH (M/T)
Connector Type	P01FB-A



Terminal No.	1	Color of Wire	V	Signal Name [Specification]	-
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Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	MS16FW-CS



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

Connector No.	B29
Connector Name	REAR SPEAKER LH
Connector Type	TK02MBR-P



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

16	W	-
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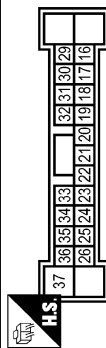
WOOFER AMP.

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

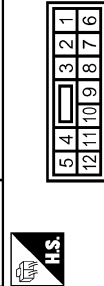
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FER-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
16	SB	SOUND SIGNAL WOOFER (+)
17	V	SOUND SIGNAL WOOFER (-)
18	L	SOUND SIGNAL REAR LH (+)
19	P	SOUND SIGNAL REAR LH (-)
20	W	AMP_ON SIGNAL
21	SHIELD	SHIELD
22	GR	WOOFER AMP_ON SIGNAL
23	SB	SOUND SIGNAL REAR LH (+)
24	V	SOUND SIGNAL REAR LH (-)
25	Y	SOUND SIGNAL REAR RH (+)
26	BR	SOUND SIGNAL REAR RH (-)

Connector No.	B43
Connector Name	WOOFER AMP.
Connector Type	NS12FW-CS

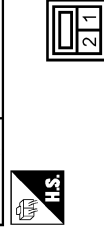


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR WOOFER RH (+)
2	R	REAR WOOFER RH (-)
3	GR	WOOFER AMP_ON SIGNAL
4	B	REAR WOOFER LH (+)
5	W	REAR WOOFER LH (-)
7	Y	BATTERY
8	SB	SOUND SIGNAL WOOFER (+)
9	V	SOUND SIGNAL WOOFER (-)
10	B	GND

29	L	SOUND SIGNAL CENTER (+)
30	O	SOUND SIGNAL CENTER (-)
31	LG	SOUND SIGNAL REAR RH (+)
32	V	SOUND SIGNAL REAR RH (-)
33	R	SOUND SIGNAL FRONT RH (+)
34	G	SOUND SIGNAL FRONT RH (-)
35	P	SOUND SIGNAL FRONT LH (+)
36	L	SOUND SIGNAL FRONT LH (-)
37	SB	MODE CHANGE SIGNAL

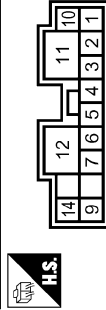
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	DOOR SQUAWKER LH (+)
2	W	DOOR SQUAWKER LH (-)
3	LG	DOOR SQUAWKER RH (+)
4	V	DOOR SQUAWKER RH (-)
5	G	DOOR WOOFER RH (+)
6	R	DOOR WOOFER RH (-)
7	B	GND
9	W	DOOR WOOFER LH (+)
10	Y	BATTERY
11	GR	BATTERY
12	B	GND

Connector No.	B46
Connector Name	REAR WOOFER RH
Connector Type	NS12FW-CS



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

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



14	B	DOOR WOOFER LH (+)
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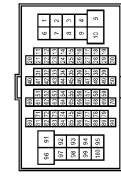
WOOFER AMP.

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[BOSE AUDIO WITHOUT NAVIGATION]

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-GS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	G	-
32	R	-
40	GR	-
41	LG	-
42	W	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	G	-
48	Y	-

Connector No.	B236
Connector Name	SATELLITE RADIO TUNER
Connector Type	A16PW



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

Connector No.	B229
Connector Name	REAR SPEAKER RH
Connector Type	TK02MBR-P



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

Connector No.	B237
Connector Name	TEL ADAPTER UNIT
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	BATTERY
2	LG	ACC
3	W	IGNITION
4	B	GND
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	B	MICROPHONE SIGNAL
8	R	MICROPHONE GND
9	Y	TEL VOICE SIGNAL (+)
10	G	TEL VOICE SIGNAL (-)
14	B	GND

19	B	GND
22	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
23	P	VEHICLE SPEED (8-PULSE)
29	W	MICROPHONE VCC

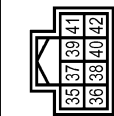
WOOFER AMP.

[BOSE AUDIO WITHOUT NAVIGATION]

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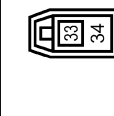
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B238
Connector Name	TEL ADAPTER UNIT
Connector Type	TH88FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
35	L	AV COMM (H)
36	P	AV COMM (L)

Connector No.	B471
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-TS-TU



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

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



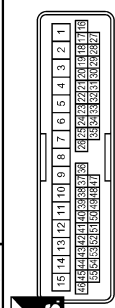
Terminal No.	Color of Wire	Signal Name [Specification]
33	-	SATELLITE ANTENNA
34	SHIELD	SHIELD

Connector No.	B483
Connector Name	SATELLITE RADIO ANTENNA
Connector Type	GT16C-1PP-TU



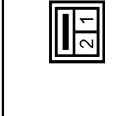
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	SHIELD	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH88FW-CS15



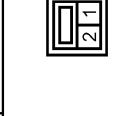
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D2
Connector Name	TWEETER LH
Connector Type	TK02MBR-P



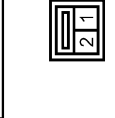
Terminal No.	Color of Wire	Signal Name [Specification]
2	W	-
1	L	-

Connector No.	D11
Connector Name	DOOR WOOFER LH
Connector Type	NS02FW-CS



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

Connector No.	D16
Connector Name	DOOR SQUAWKER LH
Connector Type	TK02FBR



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

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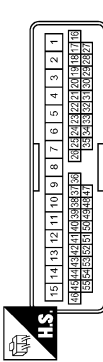
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[BOSE AUDIO WITHOUT NAVIGATION]

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D32
Connector Name	TWEETER RH
Connector Type	TK02M8R-P



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

Connector No.	D41
Connector Name	DOOR WOOFER RH
Connector Type	HS02FW-CS



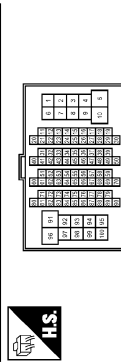
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	D46
Connector Name	DOOR SQUAWKER RH
Connector Type	TK02F8R



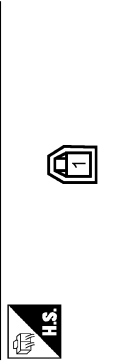
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-CS16-TM4



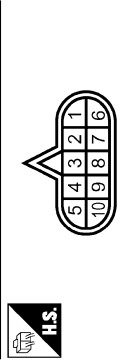
Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

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



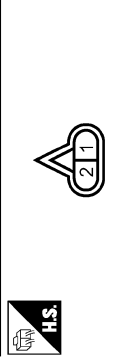
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DG1



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

Connector No.	F56
Connector Name	BACK-UP LAMP SWITCH
Connector Type	RK02FB



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

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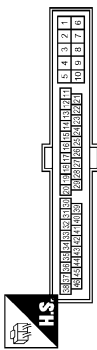
WOOFER AMP.

[BOSE AUDIO WITHOUT NAVIGATION]

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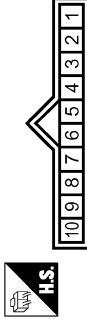
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10



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

Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SPT0FBGY



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

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



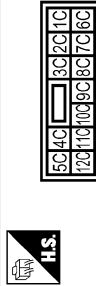
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



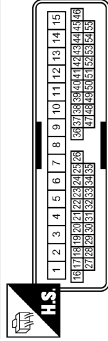
Terminal No.	Color of Wire	Signal Name [Specification]
1B	SB	-

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



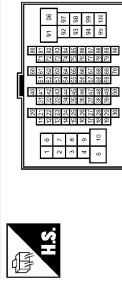
Terminal No.	Color of Wire	Signal Name [Specification]
12C	R	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
7	W	-
8	B	-
11	W	-
12	L	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

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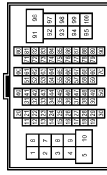
WOOFER AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

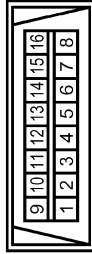
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	P	-
35	O	-
36	W	-
37	SHIELD	-
38	SB	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	O	-

44	W	-
45	SHIELD	-
46	P	-
47	G	-
48	SHIELD	-
95	O	-

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



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

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	MS16MW-CS



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



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	GR	-
5	L	-
6	LG	-
7	B	-
12	Y	-
13	SB	-
14	R	-
15	G	-

Connector No.	M33
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



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

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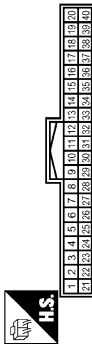
WOOFER AMP.

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



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

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



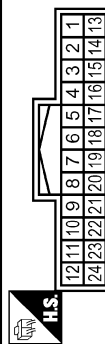
Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS30FL-M2



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

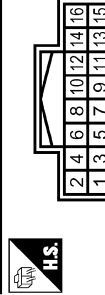
Connector No.	M71
Connector Name	DISPLAY UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH



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

14	LG	SIGNAL GND
15	R	AUX IMAGE SIGNAL
17	G	RGB (RED) SIGNAL
18	P	RGB (BLUE) SIGNAL
19	Y	RGB SYNC
20	GR	VP
21	SHIELD	SHIELD
22	G	COMM (DISP->CONT)
23	SHIELD	SHIELD

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	L	ACC
6	SB	AV COMM (H)
8	W	AV COMM (L)
9	BR	SW GND
14	LG	ELECT SIGNAL (Without NAVI)

Connector No.	M81
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
6	G	STRG SW A
7	V	ACC
9	L	ILLUMINATION
15	B	STRG SW GND
18	L	STRG SW B
19	Y	BATTERY
20	B	GND

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[BOSE AUDIO WITHOUT NAVIGATION]

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

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



22	24	30	32
21	23	25	26
27	28	29	31

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

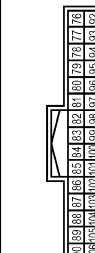
Connector No.	M83
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH



47	46	45	44	43	42	41	40	39	38	37	36
59	58	57	56	55	54	53	52	51	50	49	48

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

Connector No.	M85
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH32FW-NH



31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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Terminal No.	Color of Wire	Signal Name [Specification]
79	P	TEL VOICE SIGNAL (-)
80	L	TEL VOICE SIGNAL (+)
81	SHIELD	SHIELD
82	G	iPod SOUND SIGNAL RH (-)
83	B	iPod SOUND SIGNAL RH (+)
85	B	GND
86	L	CAN-H
87	P	CAN-L
88	V	AV COMM (H)
89	LG	AV COMM (L)
90	L	AV COMM (H)

47	O	SIGNAL VCC
49	Y	SHIELD
50	SHIELD	SHIELD
55	SHIELD	SHIELD
56	L	COMM (CONT->DISP)
57	GR	VDD
58	BR	INVERTER GND
59	Y	INVERTER VCC

Connector No.	M84
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-NH



67	66	65	64	63	62	61	60
75	74	73	72	71	70	69	68

Terminal No.	Color of Wire	Signal Name [Specification]
66	G	AUX IMAGE SIGNAL
73	SHIELD	SHIELD
74	R	AUX IMAGE GND

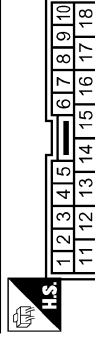
Connector No.	M86
Connector Name	AV CONTROL UNIT (WITH BOSE SYSTEM)
Connector Type	TH12FW-NH



114	113	116	117	118	119
108	109	110	111	112	113

Terminal No.	Color of Wire	Signal Name [Specification]
108	BR	SOUND SIGNAL REAR RH (-)
109	R	SOUND SIGNAL FRONT RH (+)
110	SB	AMP. ON SIGNAL
111	SHIELD	SHIELD
112	O	SOUND SIGNAL REAR LH (+)
113	O	SOUND SIGNAL FRONT LH (+)
114	Y	SOUND SIGNAL REAR RH (-)
115	G	SOUND SIGNAL FRONT RH (-)
118	W	SOUND SIGNAL REAR LH (-)
119	W	SOUND SIGNAL FRONT LH (-)

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK (DIMP)-NS



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	- [Without NAVI]
2	W	- [Without NAVI]
3	R	- [Without NAVI]

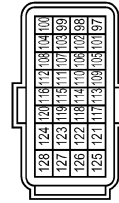
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[BOSE AUDIO WITHOUT NAVIGATION]

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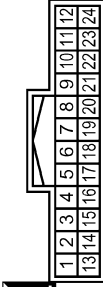
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M107
Connector Name	EOM
Connector Type	RH24GY-R28-R-LH-Z



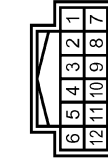
Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHGAN-L1
114	L	VEHGAN-H1

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (-)
2	B	iPod SOUND SIGNAL RH (-)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER (With A/T)
9	L	CHARGE POWER (With M/T)
10	P	COMM (iPod ADAPTER->iPod)
11	L	COMM (iPod->iPod ADAPTER)
12	W	ACCESSORY IDENTIFY

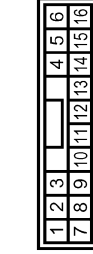
Connector No.	M114
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

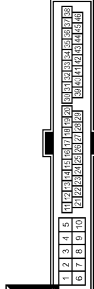
13	W	iPod SOUND SIGNAL LH (-)
14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	GC	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	R	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP18FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK38MW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
30	LG	-
31	W	-
41	O	-

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[BOSE AUDIO WITHOUT NAVIGATION]

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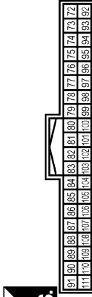
Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	V	-
32	LG	-
40	Y	-
41	G	-
42	V	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	P	-
48	L	-

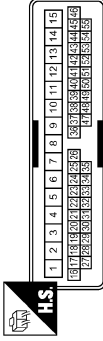
49	SHIELD	-
50	BR	-
63	L	-
64	P	-
71	Y	-
72	P	-
73	G	-
80	W	-
81	SHIELD	-
82	L	-
83	SHIELD	-
84	W	-
85	R	-
86	B	-
87	G	-
99	P	-
100	L	-

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
90	P	GAN-L
91	L	GAN-H

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-GS15



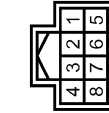
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	GR	-
12	BR	-

Connector No.	M134
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AUSPW



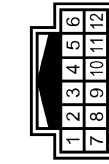
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+)
2	SHIELD	SHIELD [Without NAVI]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M155
Connector Name	WIRE TO WIRE
Connector Type	TH08PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	SHIELD	- [Without NAVI]
3	R	-
4	W	-
5	B	-
6	SHIELD	-
7	G	-
8	R	-

Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

Terminal No.	12	P
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[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M382
Connector Name	iPod SIDE
Connector Type	IP18EGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION GND
10	BR	CHARGE POWER
12	L	SHIELD
14	SHIELD	ACCESSORY DETECT
15	G	ACCESSORY IDENTIFY
16	O	

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08GY



Terminal No.	Color of Wire	Signal Name [Specification]
14	W	
15	L	
17	BR	

Connector No.	M361
Connector Name	WIRE TO WIRE
Connector Type	TH08MM-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	
2	B	
3	R	
4	W	
5	SHIELD	
7	G	
8	R	

Connector No.	M382
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB8EW



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	SOUND SIGNAL RH (+) [Without NAV]
2	SHIELD	SHIELD [Without NAV]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M370
Connector Name	AV CONTROL UNIT (WITHOUT NAV)
Connector Type	GT13SH-2/1S-HU



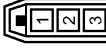
Terminal No.	Color of Wire	Signal Name [Specification]
33	-	FM SUB
34	-	AM FM MAIN
35	-	ANTENNA AMP. ON SIGNAL

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	
2	-	
3	-	

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCH-2/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	
2	-	
3	-	

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-1/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	
2	-	

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[BOSE AUDIO WITHOUT NAVIGATION]

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M379
Connector Name	WINDOW ANTENNA (SUB)
Connector Type	P01FB-A



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M381
Connector Name	WINDOW ANTENNA (MAIN)
Connector Type	P01FB-A



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	M386
Connector Name	ANTENNA AMP.
Connector Type	GT13SC-1/1S-HU



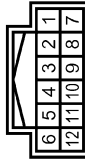
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP. ON SIGNAL
2	-	AM-FM MAIN

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TK0PW-NS8



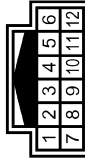
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	- [Without NAV]
2	Y	- [Without NAV]
3	SHIELD	- [Without NAV]

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	- [Without NAV]
5	Y	- [Without NAV]

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12AMP-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-
5	R	-

Connector No.	R17
Connector Name	MICROPHONE
Connector Type	TK03FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	MICROPHONE SIGNAL
2	SHIELD	SHIELD
4	R	MICROPHONE VCC

NOTE:

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

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IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

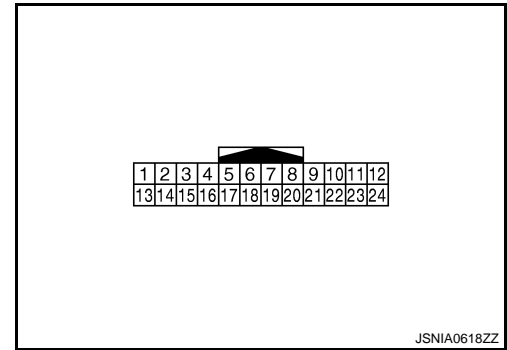
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IPOD ADAPTER

Reference Value

INFOID:000000001679301

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (R)	13 (W)	iPod sound signal LH	Output	Ignition switch ON	When iPod mode is select- ed	<p style="text-align: right;">SKIB3609E</p>
2 (B)	14 (G)	iPod sound signal RH	Output	Ignition switch ON	When iPod mode is select- ed	<p style="text-align: right;">SKIB3609E</p>
3 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
4 (R)	—	AV communication signal (L)	Input/ Output	—	—	—
5 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
8 (W) ^{*1} (L) ^{*2}	Ground	iPod battery charge	Output	Ignition switch ON	Connected to iPod®	12 V

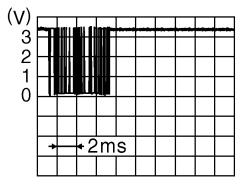
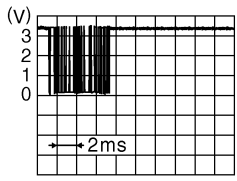
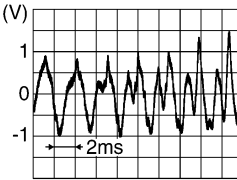
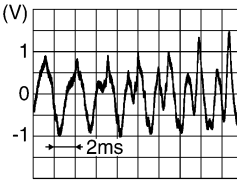
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IPOD ADAPTER

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[BOSE AUDIO WITHOUT NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
9 (P)	Ground	Communication signal (iPod adapter→iPod®)	Output	Ignition switch ON	The wave pattern is displayed just after iPod connection.	 <p>JP NIA0462GB</p> <p>NOTE: After the wave pattern display, the value continues Approx 3.3 V</p>
10 (L)	Ground	Communication signal (iPod®→iPod adapter)	Input	Ignition switch ON	Connected to iPod®	 <p>JP NIA0462GB</p>
11 (O)	Ground	ACCESSORY-IDENTIFY	—	Ignition switch ON	Connected to iPod®	0 V
12 (W)	23 (R)	iPod sound signal RH	Input	Ignition switch ON	When iPod mode is selected	 <p>SKIB3609E</p>
16 (G)	—	AV communication signal (H)	Input/ Output	—	—	—
17 (BR)	Ground	GND	—	Ignition switch ON	—	0 V
19	—	Shield	—	—	—	—
21 (W)	Ground	iPod connection recognition signal	Input	Ignition switch ON	Not connected to iPod®	4 V
					Connected to iPod®	0 V
22 (G)	Ground	ACCESSORY-DETECT	—	Ignition switch ON	Connected to iPod®	0 V
24 (B)	23 (R)	iPod sound signal LH	Input	Ignition switch ON	When iPod mode is selected	 <p>SKIB3609E</p>

*1: With A/T models.

*2: With M/T models.

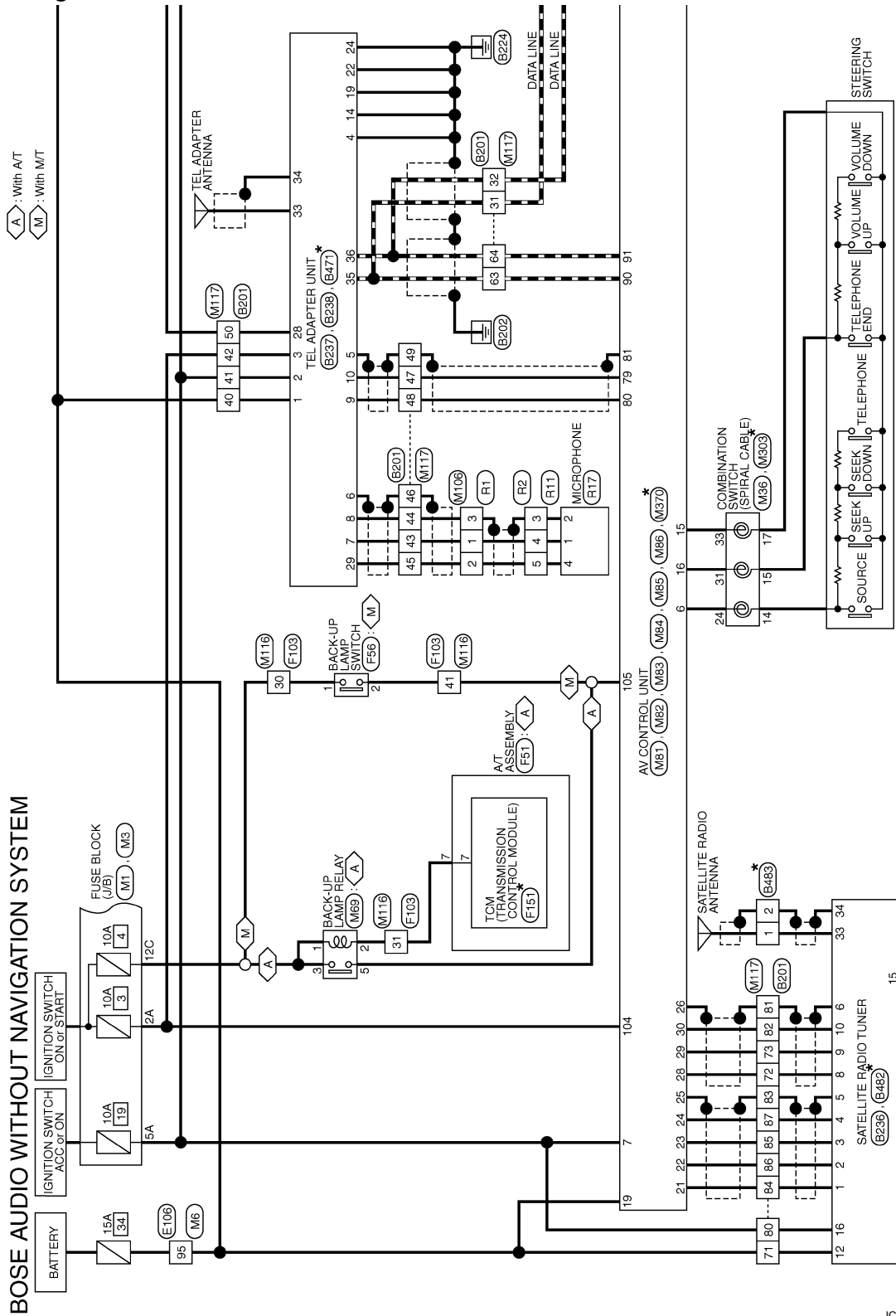
IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

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Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

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*: This connector is not shown in "Harness Layout".

2007/05/18

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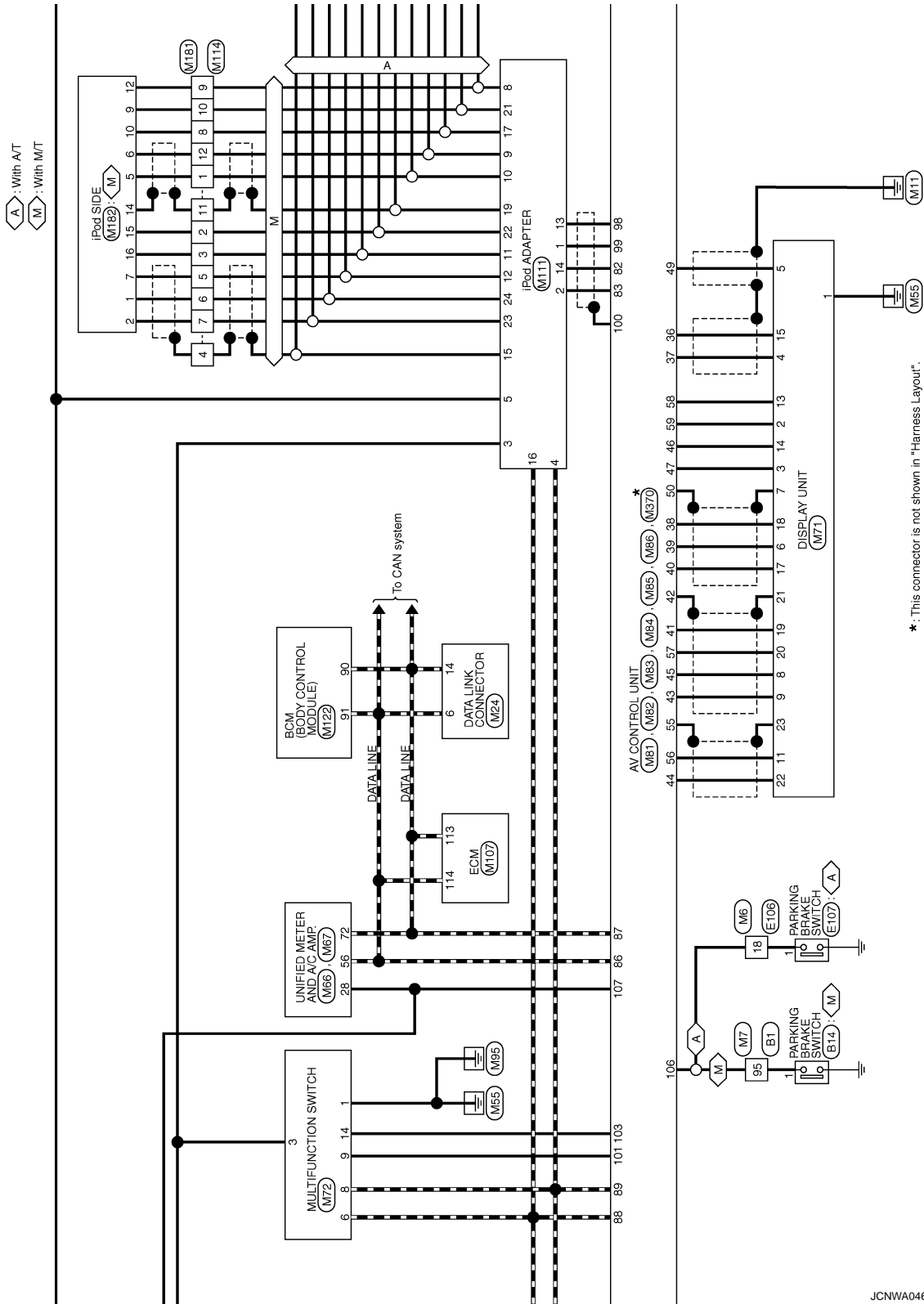
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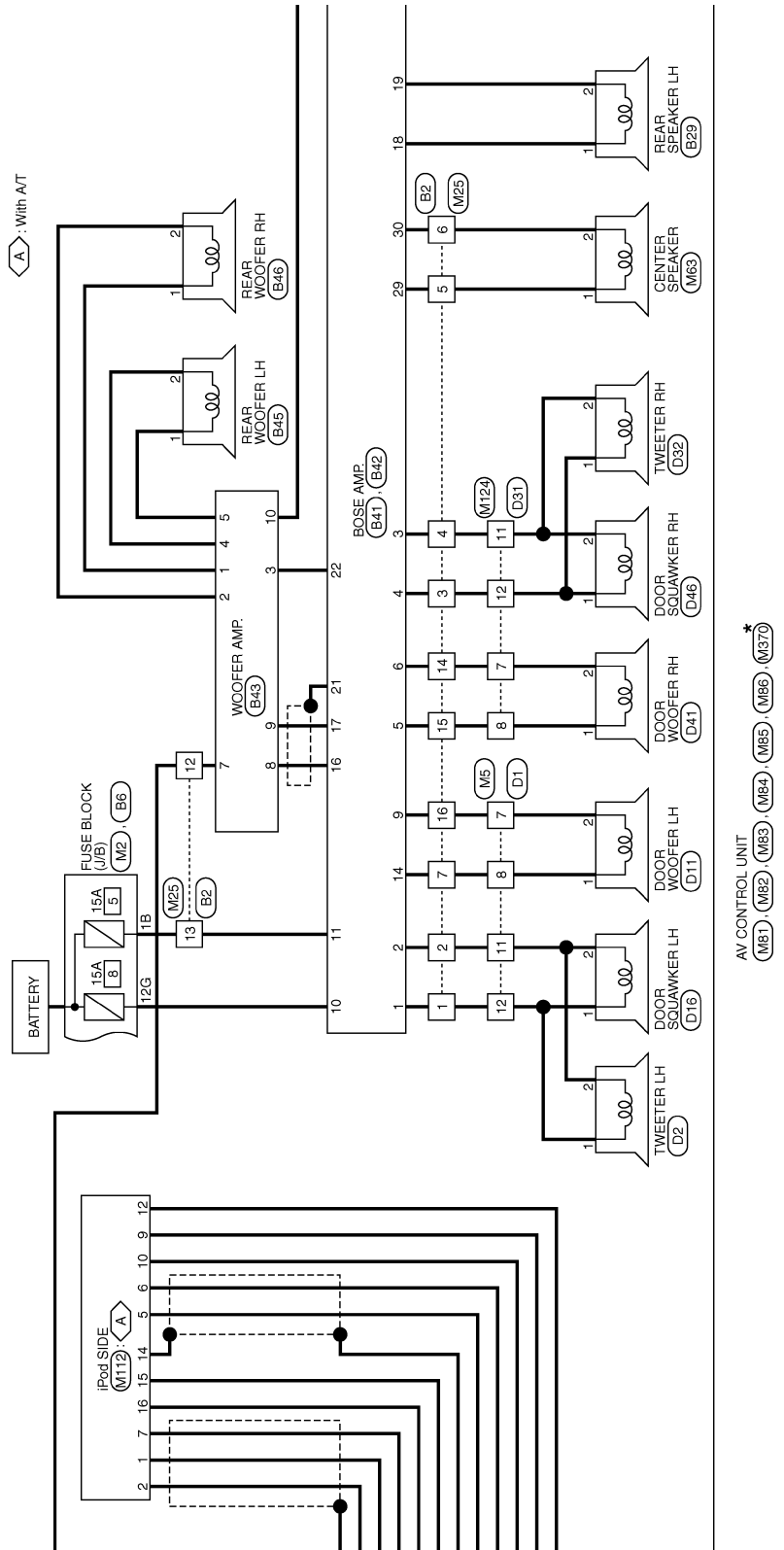


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IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

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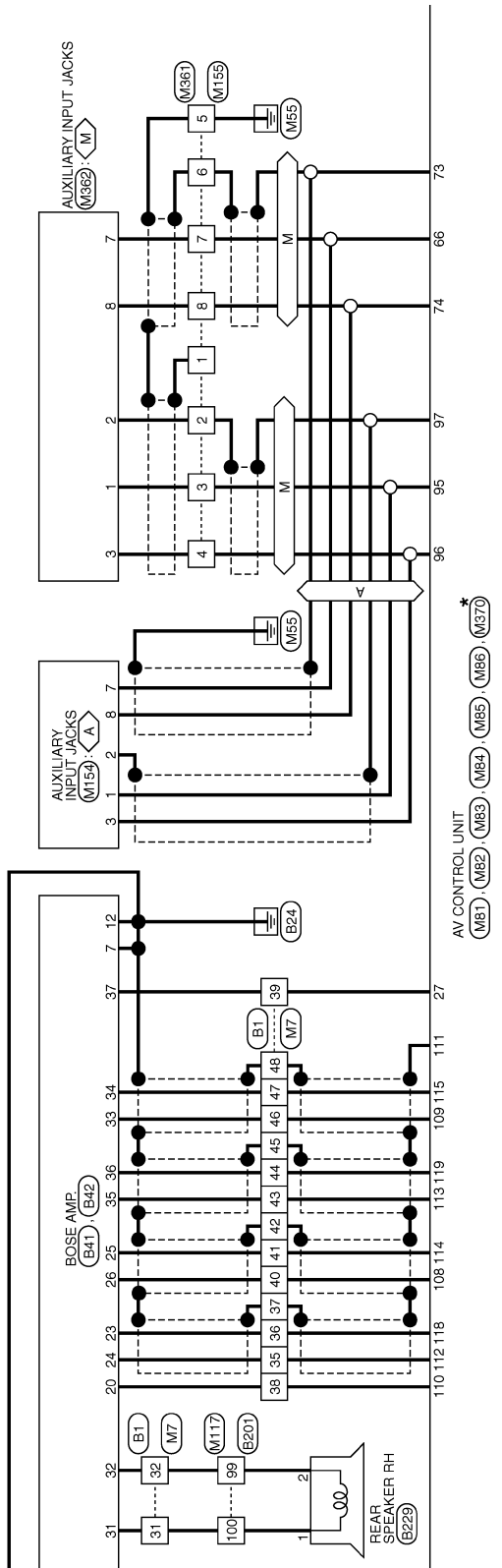
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IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

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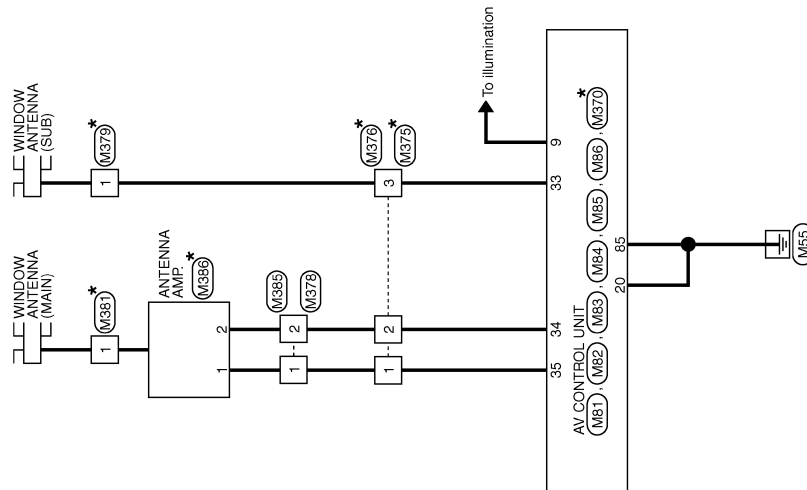
*: This connector is not shown in "Harness Layout".

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IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]



*: This connector is not shown in "Harness Layout".

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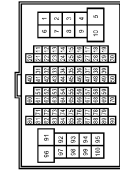
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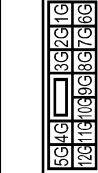
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	LG	-
32	Y	-
35	V	-
36	SB	-
37	SHIELD	-
38	W	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	P	-

Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	MS12PBR-CS



Terminal No.	1ZG	Color of Wire	Y	Signal Name [Specification]	-
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44	L	-
45	SHIELD	-
46	P	-
47	G	-
48	SHIELD	-
9B	V	-

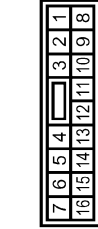


Connector No.	B14
Connector Name	PARKING BRAKE SWITCH (M/T)
Connector Type	P01FB-A



Terminal No.	1	Color of Wire	V	Signal Name [Specification]	-
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Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	MS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	V	-
4	LG	-
5	L	-
6	O	-
7	B	-
12	Y	-
13	GR	-
14	R	-
15	G	-

Connector No.	B29
Connector Name	REAR SPEAKER LH
Connector Type	TK02MBR-P



Terminal No.	1	Color of Wire	L	Signal Name [Specification]	-
2	2	P	-	-	-

16	W	-
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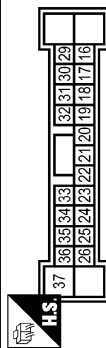
IPOD ADAPTER

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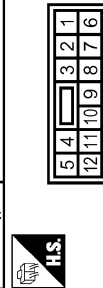
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FER-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
16	SB	SOUND SIGNAL WOOFER (+)
17	V	SOUND SIGNAL WOOFER (-)
18	L	SOUND SIGNAL REAR LH (+)
19	P	SOUND SIGNAL REAR LH (-)
20	W	AMP. ON SIGNAL
21	SHIELD	SHIELD
22	GR	WOOFER AMP. ON SIGNAL
23	SB	SOUND SIGNAL REAR LH (+)
24	V	SOUND SIGNAL REAR LH (-)
25	Y	SOUND SIGNAL REAR RH (+)
26	BR	SOUND SIGNAL REAR RH (-)

Connector No.	B43
Connector Name	WOOFER AMP.
Connector Type	NS12FW-CS

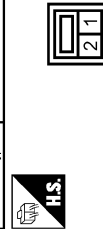


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR WOOFER RH (+)
2	R	REAR WOOFER RH (-)
3	GR	WOOFER AMP. ON SIGNAL
4	B	REAR WOOFER LH (+)
5	W	REAR WOOFER LH (-)
7	Y	BATTERY
8	SB	SOUND SIGNAL WOOFER (+)
9	V	SOUND SIGNAL WOOFER (-)
10	B	GND

29	L	SOUND SIGNAL CENTER (+)
30	O	SOUND SIGNAL CENTER (-)
31	LG	SOUND SIGNAL REAR RH (+)
32	V	SOUND SIGNAL REAR RH (-)
33	R	SOUND SIGNAL FRONT RH (+)
34	G	SOUND SIGNAL FRONT RH (-)
35	P	SOUND SIGNAL FRONT LH (+)
36	L	SOUND SIGNAL FRONT LH (-)
37	SB	MODE CHANGE SIGNAL

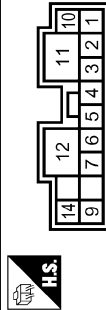
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	DOOR SQUAWKER LH (+)
2	W	DOOR SQUAWKER LH (-)
3	LG	DOOR SQUAWKER RH (+)
4	V	DOOR SQUAWKER RH (-)
5	G	DOOR WOOFER RH (+)
6	R	DOOR WOOFER RH (-)
7	B	GND
9	W	DOOR WOOFER LH (+)
10	Y	BATTERY
11	GR	BATTERY
12	B	GND

Connector No.	B46
Connector Name	REAR WOOFER RH
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SCA12FER-SJA2



14	B	DOOR WOOFER LH (+)
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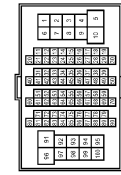
IPOD ADAPTER

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< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-GS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	G	-
32	R	-
40	GR	-
41	LG	-
42	W	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	G	-
48	Y	-

Connector No.	B236
Connector Name	SATELLITE RADIO TUNER
Connector Type	A16PW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	SOUND SIGNAL LH (-)
2	R	SOUND SIGNAL LH (+)
3	W	SOUND SIGNAL RH (-)
4	B	SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD
8	Y	REQUEST (SAT->CONT)
9	O	COMM (SAT->CONT)
10	BR	COMM (CONT->SAT)
12	SB	BATTERY
13	B	GND

49	SHIELD	-
50	P	-
63	L	-
64	P	-
71	SB	-
72	Y	-
73	O	-
80	V	-
81	SHIELD	-
82	BR	-
83	SHIELD	-
84	G	-
85	W	-
86	R	-
87	B	-
99	P	-
100	L	-

Connector No.	B229
Connector Name	REAR SPEAKER RH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	-

16	V	ACC
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Connector No.	B237
Connector Name	TEL ADAPTER UNIT
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	BATTERY
2	LG	ACC
3	W	IGNITION
4	B	GND
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	B	MICROPHONE SIGNAL
8	R	MICROPHONE GND
9	Y	TEL VOICE SIGNAL (+)
10	G	TEL VOICE SIGNAL (-)
14	B	GND

19	B	GND
22	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
23	P	VEHICLE SPEED (8-PULSE)
29	W	MICROPHONE VCC

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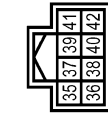
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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B238
Connector Name	TEL ADAPTER UNIT
Connector Type	TH8BFV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
35	L	AV COMM (H)
36	P	AV COMM (L)

Connector No.	B471
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-TS-TU



Terminal No.	Color of Wire	Signal Name [Specification]
33	-	TEL ANTENNA
34	SHIELD	SHIELD

Connector No.	B482
Connector Name	SATELLITE RADIO TUNER
Connector Type	-



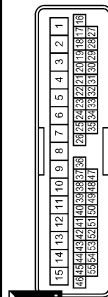
Terminal No.	Color of Wire	Signal Name [Specification]
33	-	SATELLITE ANTENNA
34	SHIELD	SHIELD

Connector No.	B483
Connector Name	SATELLITE RADIO ANTENNA
Connector Type	GT16C-1PP-TU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	SHIELD	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH4UFW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D2
Connector Name	TWEETER LH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D11
Connector Name	DOOR WOOFER LH
Connector Type	NS02FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	D16
Connector Name	DOOR SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

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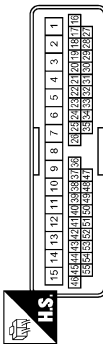
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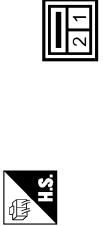
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D32
Connector Name	TWEETER RH
Connector Type	TK02M8R-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D41
Connector Name	DOOR WOOFER RH
Connector Type	HS02FW-CS



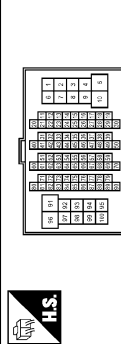
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	D46
Connector Name	DOOR SQUAWKER RH
Connector Type	TK02F8R



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-CS16-TM4



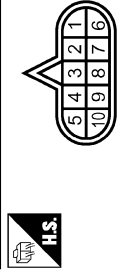
Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH (A/T)
Connector Type	TB01PW



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DG1



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-

Connector No.	F56
Connector Name	BACK-UP LAMP SWITCH
Connector Type	RK02FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-

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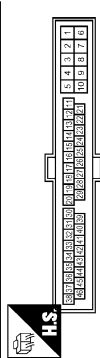
IPOD ADAPTER

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Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10



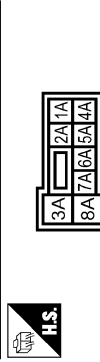
Terminal No.	Color of Wire	Signal Name [Specification]
30	R	-
31	R	-
41	O	-

Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SPT0FBGY



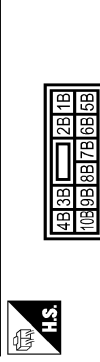
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS36FW-M2



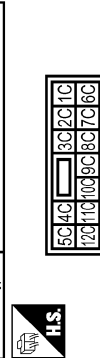
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



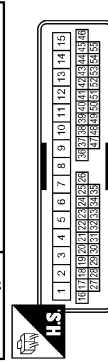
Terminal No.	Color of Wire	Signal Name [Specification]
1B	SB	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



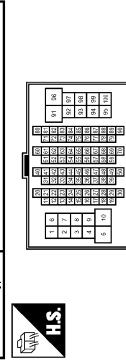
Terminal No.	Color of Wire	Signal Name [Specification]
12C	R	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	W	-
8	B	-
11	W	-
12	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

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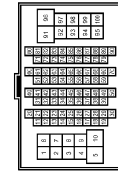
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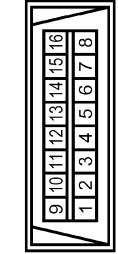
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	P	-
35	O	-
36	W	-
37	SHIELD	-
38	SB	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	O	-

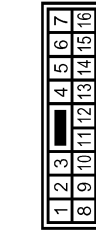
44	W	-
45	SHIELD	-
46	P	-
47	G	-
48	SHIELD	-
98	O	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	MS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	GR	-
5	L	-
6	LG	-
7	B	-
12	Y	-
13	SB	-
14	R	-
15	G	-

16	W	-
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Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V



Terminal No.	Color of Wire	Signal Name [Specification]
24	G	-
31	L	-
33	B	-

Connector No.	M33
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	LG	-

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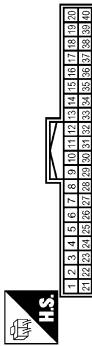
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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



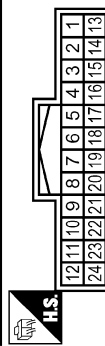
Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS30FL-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

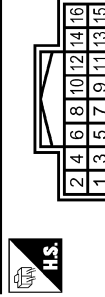
Connector No.	M71
Connector Name	DISPLAY UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	INVERTER VCC
3	O	SIGNAL VCC
4	L	AUX IMAGE GND
5	Y	COMPOSITE SYNC GND
6	L	RGB (GREEN) SIGNAL
7	SHIELD	SHIELD
8	LG	HP
9	P	RGB AREA (VS) SIGNAL
11	L	COMM (CONT->DISP)
13	BR	INVERTER GND

14	LG	SIGNAL GND
15	R	AUX IMAGE SIGNAL
17	G	RGB (RED) SIGNAL
18	P	RGB (BLUE) SIGNAL
19	Y	RGB SYNC
20	GR	VP
21	SHIELD	SHIELD
22	G	COMM (DISP->CONT)
23	SHIELD	SHIELD

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	L	ACC
6	SB	AV COMM (H)
8	W	AV COMM (L)
9	BR	SW GND
14	LG	ELECT SIGNAL (Without NAVI)

Connector No.	M81
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
6	G	STRG SW A
7	V	ACC
9	L	ILLUMINATION
15	B	STRG SW GND
18	L	STRG SW B
19	Y	BATTERY
20	B	GND

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AV

IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M82
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	A12FW



Connector No.	M83
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH



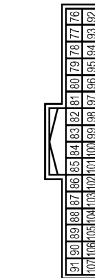
Connector No.	M84
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-NH



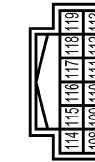
Terminal No.	Color of Wire	Signal Name [Specification]
21	W	SOUND SIGNAL LH (-)
22	B	SOUND SIGNAL LH (+)
23	R	SOUND SIGNAL RH (-)
24	G	SOUND SIGNAL RH (+)
25	SHIELD	SHIELD
26	SHIELD	SHIELD
27	SB	MODE CHANGE SIGNAL
28	P	REQUEST (SAT->CONT)
29	G	COMM (SAT->CONT)
30	L	COMM (CONT->SAT)

Terminal No.	Color of Wire	Signal Name [Specification]
36	R	AUX IMAGE SIGNAL
37	L	AUX IMAGE GND
38	P	RGB (BLUE) SIGNAL
39	L	RGB (GREEN) SIGNAL
40	G	RGB (RED) SIGNAL
41	Y	RGB SYNC
42	SHIELD	SHIELD
43	P	RGB AREA (VS) SIGNAL
44	G	COMM (DISP->CONT)
45	LG	HP
46	LG	SIGNAL GND

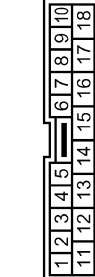
Connector No.	M85
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH32FW-NH



Connector No.	M86
Connector Name	AV CONTROL UNIT (WITH BOSE SYSTEM)
Connector Type	TH12FW-NH



Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK (DIMP)-NS



Terminal No.	Color of Wire	Signal Name [Specification]
79	P	TEL VOICE SIGNAL (-)
80	L	TEL VOICE SIGNAL (+)
81	SHIELD	SHIELD
82	G	iPod SOUND SIGNAL RH (-)
83	B	iPod SOUND SIGNAL RH (+)
85	B	GND
86	L	CAN-H
87	P	CAN-L
88	V	AV COMM (H)
89	LG	AV COMM (L)
90	L	AV COMM (H)

Terminal No.	Color of Wire	Signal Name [Specification]
108	BR	SOUND SIGNAL REAR RH (-)
109	R	SOUND SIGNAL FRONT RH (+)
110	SB	AMP. ON SIGNAL
111	SHIELD	SHIELD
112	O	SOUND SIGNAL REAR LH (+)
113	O	SOUND SIGNAL FRONT LH (+)
114	Y	SOUND SIGNAL REAR RH (-)
115	G	SOUND SIGNAL FRONT RH (-)
118	W	SOUND SIGNAL REAR LH (-)
119	W	SOUND SIGNAL FRONT LH (-)

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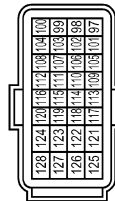
IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

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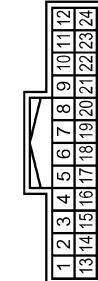
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M107
Connector Name	EOM
Connector Type	RH24GY-R28-R-LH-Z



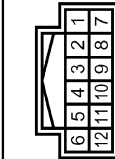
Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHGAN-L1
114	L	VEHGAN-H1

Connector No.	M111
Connector Name	IPOD ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	IPOD SOUND SIGNAL LH (-)
2	B	IPOD SOUND SIGNAL RH (-)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER (With A/T)
9	L	CHARGE POWER (With M/T)
10	L	COMM (I-Pod->I-Pod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	W	IPOD SOUND SIGNAL RH (-)

Connector No.	M114
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

13	W	IPOD SOUND SIGNAL LH (-)
14	G	IPOD SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	GC	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	IPOD CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	R	IPOD SOUND SIGNAL GND
24	B	IPOD SOUND SIGNAL LH (+)

Connector No.	M112
Connector Name	IPOD SIDE
Connector Type	IP18FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	IPOD SOUND SIGNAL LH (+)
2	R	IPOD SOUND SIGNAL GND
5	L	COMM (I-Pod->I-Pod ADAPTER)
6	P	COMM (I-Pod ADAPTER->I-Pod)
7	W	IPOD SOUND SIGNAL RH (+)
9	W	IPOD CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK38MW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
30	LG	-
31	W	-
41	O	-

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	V	-
32	LG	-
40	Y	-
41	G	-
42	V	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	P	-
48	L	-

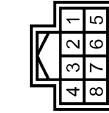
Connector No.	M134
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AUSPW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (c)
2	SHIELD	SHIELD [Without NAVI]
3	W	SOUND SIGNAL LH (c)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

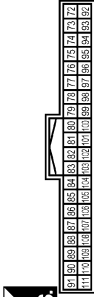
49	SHIELD	-
50	BR	-
63	L	-
64	P	-
71	Y	-
72	P	-
73	G	-
80	W	-
81	SHIELD	-
82	L	-
83	SHIELD	-
84	W	-
85	R	-
86	B	-
87	G	-
99	P	-
100	L	-

Connector No.	M155
Connector Name	WIRE TO WIRE
Connector Type	TH85PW-NH



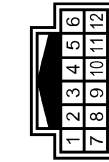
Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	SHIELD	- [Without NAVI]
3	R	-
4	W	-
5	B	-
6	SHIELD	-
7	G	-
8	R	-

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



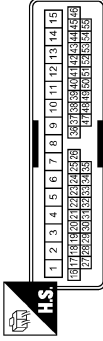
Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-GS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	GR	-
12	BR	-

Terminal No.	12	P
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IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M182
Connector Name	iPod SIDE
Connector Type	IP182GY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION GND
10	BR	CHARGE POWER
12	L	SHIELD
14	SHIELD	ACCESSORY DETECT
15	G	ACCESSORY IDENTIFY
16	O	

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK03GY



Terminal No.	Color of Wire	Signal Name [Specification]
14	W	
15	L	
17	BR	

Connector No.	M361
Connector Name	WIRE TO WIRE
Connector Type	TH03MM-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	
2	B	
3	R	
4	W	
5	SHIELD	
6	SHIELD	
7	G	
8	R	

Connector No.	M382
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB02W



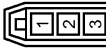
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	SOUND SIGNAL RH (+) [Without NAV]
2	SHIELD	SHIELD [Without NAV]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M370
Connector Name	AV CONTROL UNIT (WITHOUT NAV)
Connector Type	GT13SH-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
33	-	FM SUB
34	-	AM FM MAIN
35	-	ANTENNA AMP. ON SIGNAL

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	
2	-	
3	-	

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCH-2/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	
2	-	
3	-	

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-1/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	
2	-	

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IPOD ADAPTER

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M379
Connector Name	WINDOW ANTENNA (SUB)
Connector Type	P01FB-A



Terminal No.	1	Signal Name [Specification]
Color of Wire	-	-

Connector No.	M381
Connector Name	WINDOW ANTENNA (MAIN)
Connector Type	P01FB-A



Terminal No.	1	Signal Name [Specification]
Color of Wire	-	-

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/1S-HU



Terminal No.	1	Signal Name [Specification]
Color of Wire	-	-
Terminal No.	2	-

Connector No.	M386
Connector Name	ANTENNA AMP.
Connector Type	GT13SC-1/1S-HU



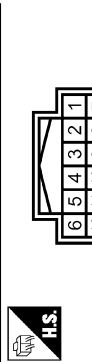
Terminal No.	1	Signal Name [Specification]
Color of Wire	-	ANTENNA AMP. ON SIGNAL
Terminal No.	2	AM-FM MAIN

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TK0FW-NS8



Terminal No.	1	Signal Name [Specification]
Color of Wire	G	- [Without NAV]
Terminal No.	2	Y
Terminal No.	3	SHIELD

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12PW-NH



Terminal No.	3	Signal Name [Specification]
Color of Wire	SHIELD	-
Terminal No.	4	G
Terminal No.	5	Y

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	3	Signal Name [Specification]
Color of Wire	SHIELD	-
Terminal No.	4	W
Terminal No.	5	R

Connector No.	R17
Connector Name	MICROPHONE
Connector Type	TK03FW



Terminal No.	1	Signal Name [Specification]
Color of Wire	W	MICROPHONE SIGNAL
Terminal No.	2	SHIELD
Terminal No.	4	R
Terminal No.		MICROPHONE VCC

NOTE:

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

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SATELLITE RADIO TUNER

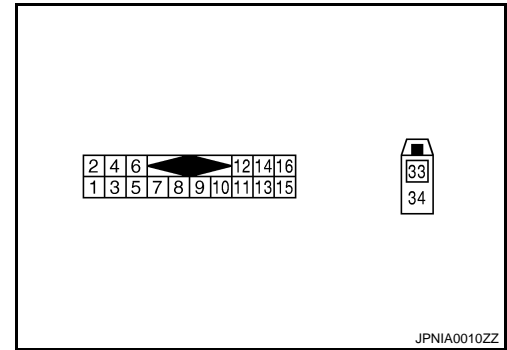
[BOSE AUDIO WITHOUT NAVIGATION]

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SATELLITE RADIO TUNER

Reference Value

INFOID:000000001559066



PHYSICAL VALUES

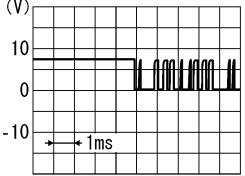
Terminal		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/Output			
2 (R)	1 (G)	Satellite radio sound signal LH	Output	Ignition switch ON	When satellite radio mode is selected	
4 (B)	3 (W)	Satellite radio sound signal RH	Output	Ignition switch ON	When satellite radio mode is selected	
5	—	Shield	—	—	—	—
6	—	Shield	—	—	—	—
8 (Y)	Ground	Request signal (SAT→CONT)	Output	Ignition switch ON	When satellite radio mode is selected	
9 (O)	Ground	Communication signal (SAT→CONT)	Output	Ignition switch ON	When satellite radio mode is selected	

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SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

Terminal		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
10 (BR)	Ground	Communication signal (CONT→SAT)	Input	Ignition switch ON	When satellite radio mode is selected	 <p style="text-align: right; font-size: small;">SKIA9301J</p>
12 (SB)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
15 (B)	Ground	GND	—	Ignition switch ON	—	0 V
16 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
33	—	Satellite antenna	Input	—	—	—
34	—	Shield	—	—	—	—

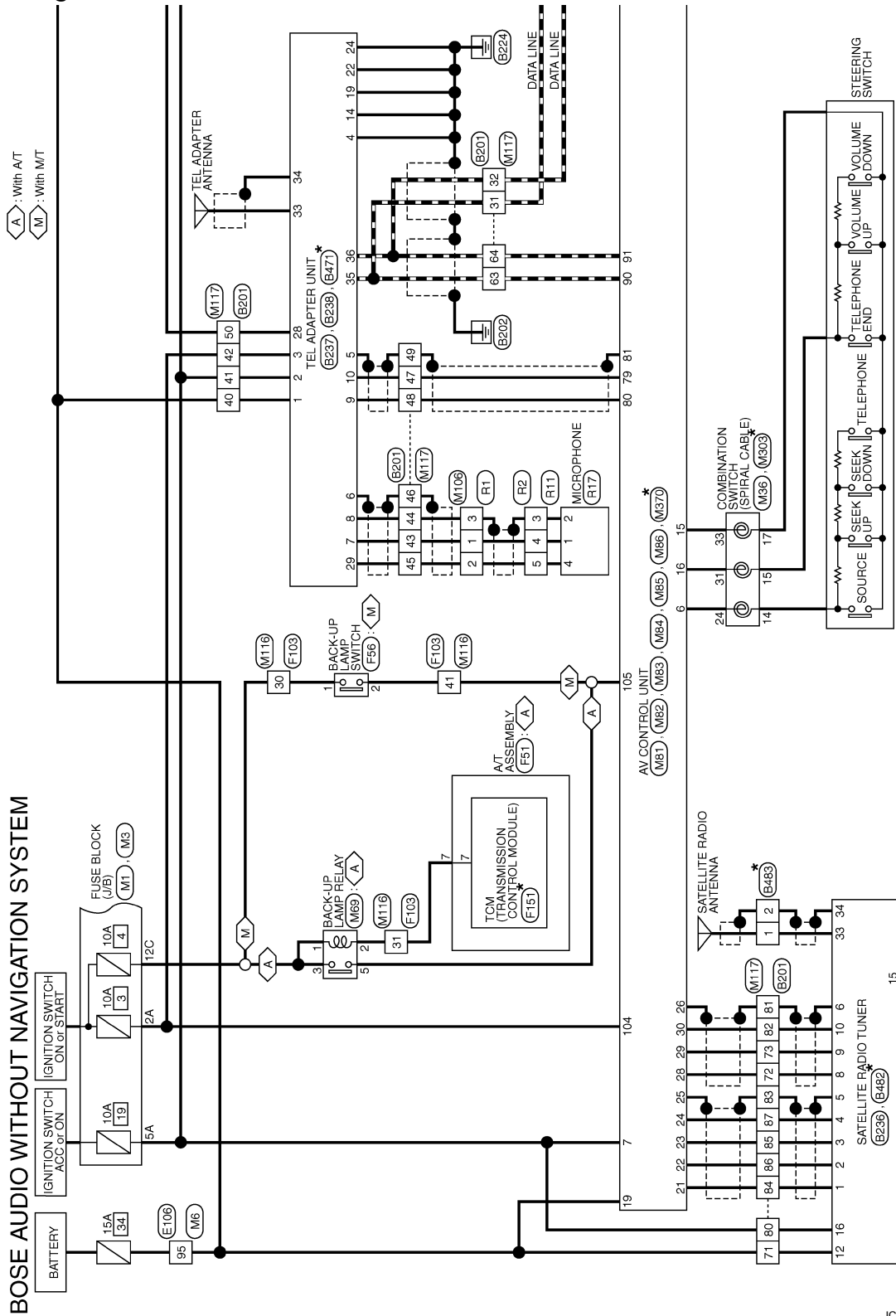
SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

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*: This connector is not shown in "Harness Layout".

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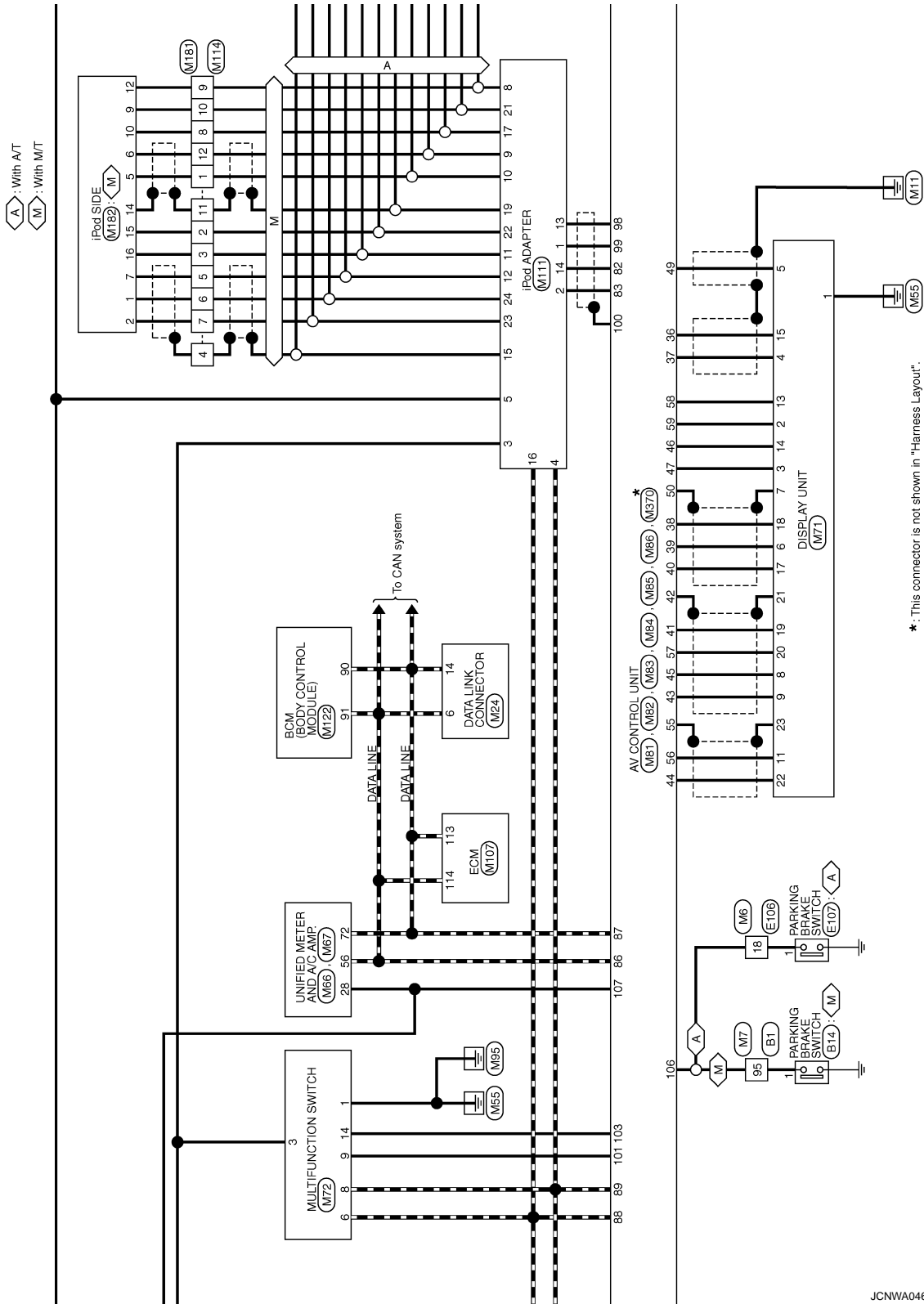
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SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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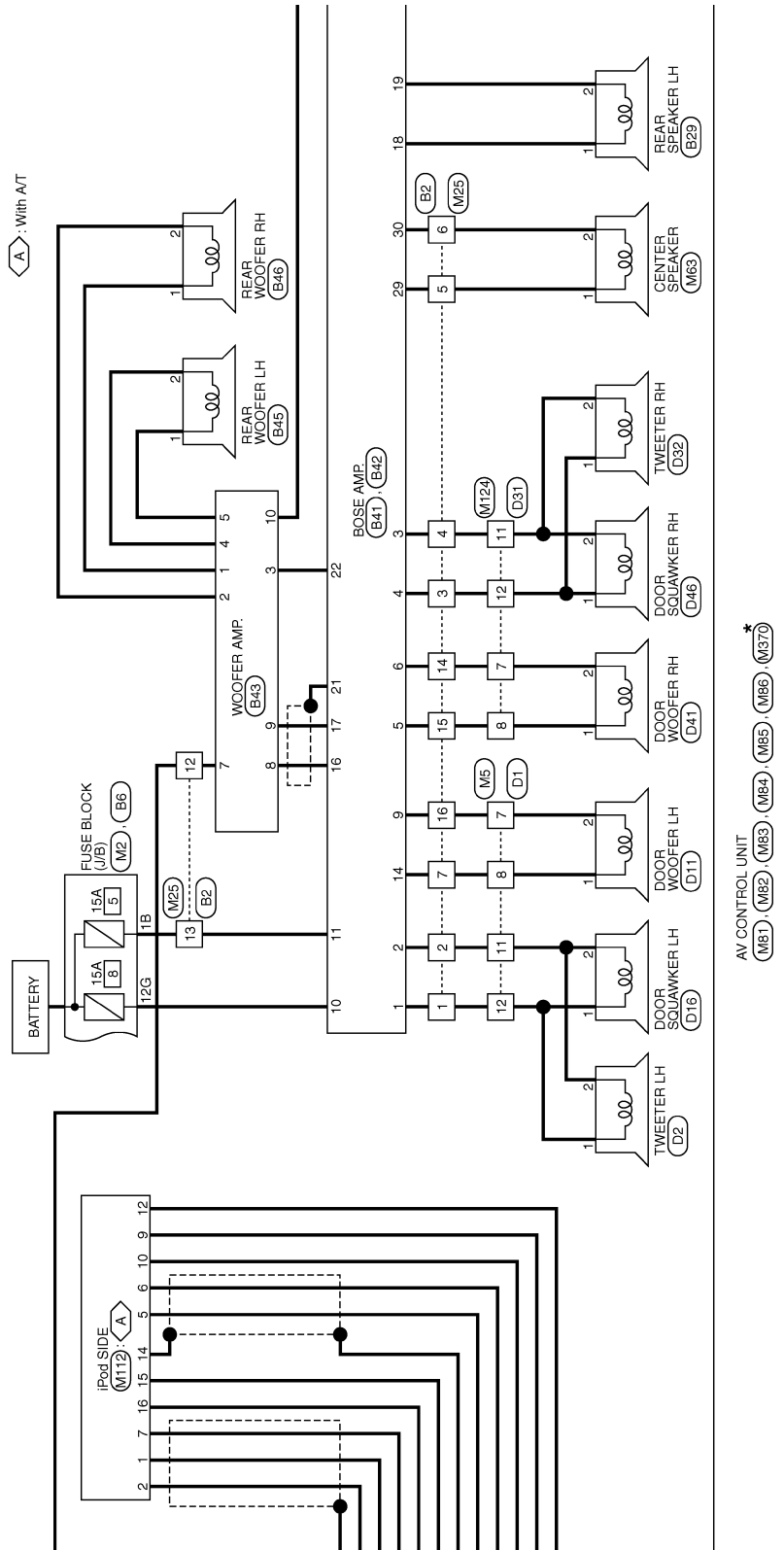


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[BOSE AUDIO WITHOUT NAVIGATION]

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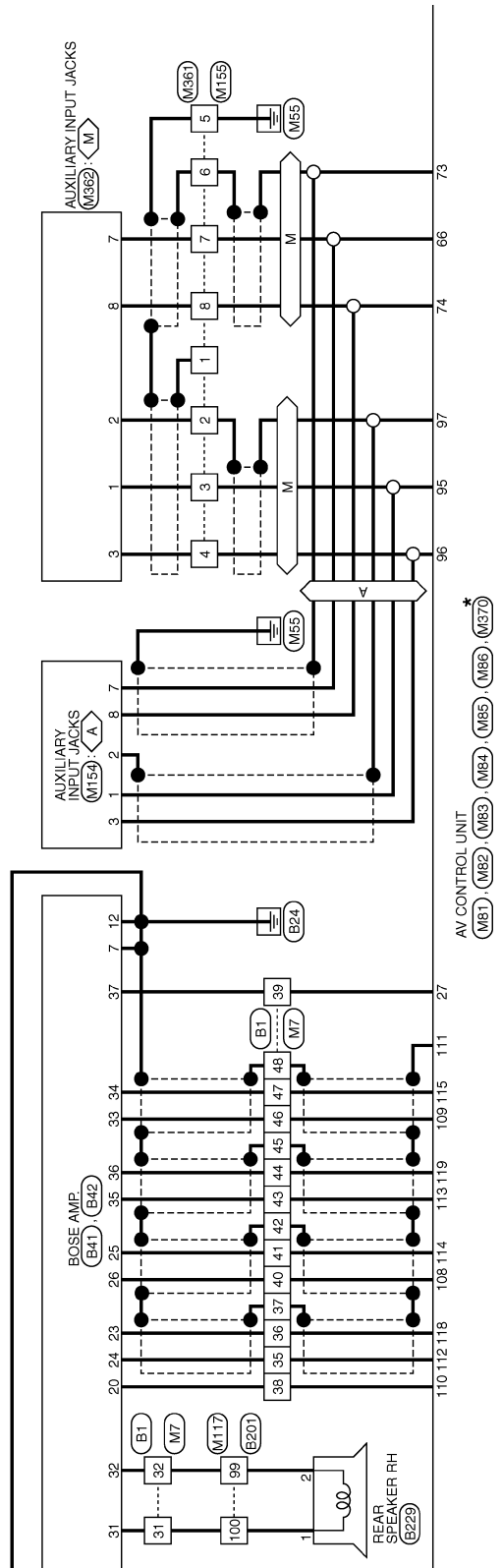
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SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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A : With A/T
M : With M/T



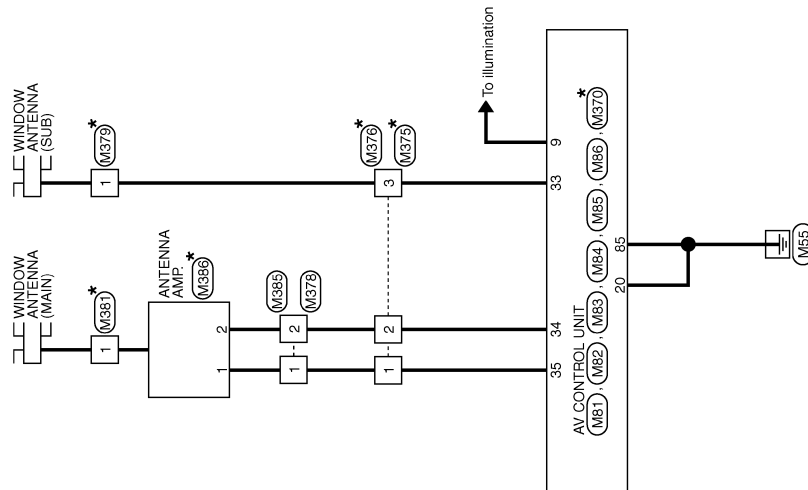
*: This connector is not shown in "Harness Layout".

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[BOSE AUDIO WITHOUT NAVIGATION]

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*: This connector is not shown in "Harness Layout".

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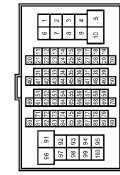
SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	LG	-
32	Y	-
35	V	-
36	SB	-
37	SHIELD	-
38	W	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	P	-

Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	MS12PBR-CS

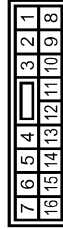


Terminal No.	12G	11G	10G	9G	8G	7G	6G
Color of Wire	Y	-	-	-	-	-	-
Signal Name [Specification]	-	-	-	-	-	-	-

44	L	-
45	SHIELD	-
46	P	-
47	G	-
48	SHIELD	-
9B	V	-



Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	MS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	V	-
4	LG	-
5	L	-
6	O	-
7	B	-
12	Y	-
13	GR	-
14	R	-
15	G	-

Connector No.	B29
Connector Name	REAR SPEAKER LH
Connector Type	TK02MBR-P



Terminal No.	1	2
Color of Wire	L	P
Signal Name [Specification]	-	-

Connector No.	B14
Connector Name	PARKING BRAKE SWITCH (M/T)
Connector Type	P01FB-A



Terminal No.	1
Color of Wire	V
Signal Name [Specification]	-

16	W	-
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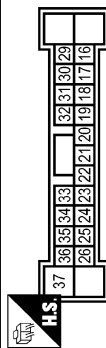
SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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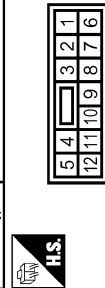
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FER-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
16	SB	SOUND SIGNAL WOOFER (+)
17	V	SOUND SIGNAL WOOFER (-)
18	L	SOUND SIGNAL REAR LH (+)
19	P	SOUND SIGNAL REAR LH (-)
20	W	AMP. ON SIGNAL
21	SHIELD	SHIELD
22	GR	WOOFER AMP. ON SIGNAL
23	SB	SOUND SIGNAL REAR LH (+)
24	V	SOUND SIGNAL REAR LH (-)
25	Y	SOUND SIGNAL REAR RH (+)
26	BR	SOUND SIGNAL REAR RH (-)

Connector No.	B43
Connector Name	WOOFER AMP.
Connector Type	NS12FW-CS

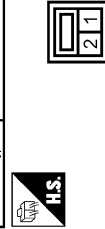


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR WOOFER RH (+)
2	R	REAR WOOFER RH (-)
3	GR	WOOFER AMP. ON SIGNAL
4	B	REAR WOOFER LH (+)
5	W	REAR WOOFER LH (-)
7	Y	REAR WOOFER LH (+)
8	SB	SOUND SIGNAL WOOFER (+)
9	V	SOUND SIGNAL WOOFER (-)
10	B	GND

29	L	SOUND SIGNAL CENTER (+)
30	O	SOUND SIGNAL CENTER (-)
31	LG	SOUND SIGNAL REAR RH (+)
32	V	SOUND SIGNAL REAR RH (-)
33	R	SOUND SIGNAL FRONT RH (+)
34	G	SOUND SIGNAL FRONT RH (-)
35	P	SOUND SIGNAL FRONT LH (+)
36	L	SOUND SIGNAL FRONT LH (-)
37	SB	MODE CHANGE SIGNAL

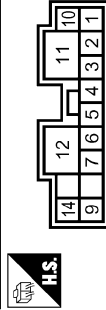
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	DOOR SQUAWKER LH (+)
2	W	DOOR SQUAWKER LH (-)
3	LG	DOOR SQUAWKER RH (+)
4	V	DOOR SQUAWKER RH (-)
5	G	DOOR WOOFER RH (+)
6	R	DOOR WOOFER RH (-)
7	B	GND
9	W	DOOR WOOFER LH (+)
10	Y	BATTERY
11	GR	BATTERY
12	B	GND

Connector No.	B46
Connector Name	REAR WOOFER RH
Connector Type	NS12FW-CS

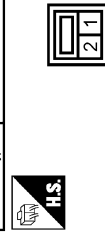


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SCA12FER-SJA2



Connector No.	B45
Connector Name	REAR WOOFER LH
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	B	-

14	B	DOOR WOOFER LH (+)
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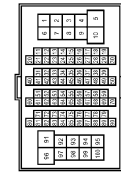
SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-GS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	G	-
32	R	-
40	GR	-
41	LG	-
42	W	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	G	-
48	Y	-

49	SHIELD	-
50	P	-
63	L	-
64	P	-
71	SB	-
72	Y	-
73	O	-
80	V	-
81	SHIELD	-
82	BR	-
83	SHIELD	-
84	G	-
85	W	-
86	R	-
87	B	-
99	P	-
100	L	-

Connector No.	B229
Connector Name	REAR SPEAKER RH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	-

Connector No.	B236
Connector Name	SATELLITE RADIO TUNER
Connector Type	A16PW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	SOUND SIGNAL LH (-)
2	R	SOUND SIGNAL LH (+)
3	W	SOUND SIGNAL RH (-)
4	B	SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD
8	Y	REQUEST (SAT->CONT)
9	O	COMM (SAT->CONT)
10	BR	COMM (CONT->SAT)
12	SB	BATTERY
13	B	GND

16	V	ACC
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Connector No.	B237
Connector Name	TEL ADAPTER UNIT
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	BATTERY
2	LG	ACC
3	W	IGNITION
4	B	GND
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	B	MICROPHONE SIGNAL
8	R	MICROPHONE GND
9	Y	TEL VOICE SIGNAL (+)
10	G	TEL VOICE SIGNAL (-)
14	B	GND

19	B	GND
22	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
23	P	VEHICLE SPEED (8-PULSE)
29	W	MICROPHONE VCC

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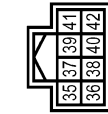
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[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B238
Connector Name	TEL ADAPTER UNIT
Connector Type	TH88FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
35	L	AV COMM (H)
36	P	AV COMM (L)

Connector No.	B471
Connector Name	TEL ADAPTER UNIT
Connector Type	GT16C-TS-TU



Terminal No.	Color of Wire	Signal Name [Specification]
33	-	TEL ANTENNA
34	SHIELD	SHIELD

Connector No.	B482
Connector Name	SATELLITE RADIO TUNER
Connector Type	-



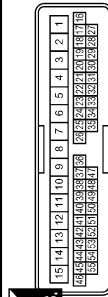
Terminal No.	Color of Wire	Signal Name [Specification]
33	-	SATELLITE ANTENNA
34	SHIELD	SHIELD

Connector No.	B483
Connector Name	SATELLITE RADIO ANTENNA
Connector Type	GT16C-1PP-TU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	SHIELD	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH88FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D2
Connector Name	TWEETER LH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D11
Connector Name	DOOR WOOFER LH
Connector Type	NS02FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	D16
Connector Name	DOOR SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

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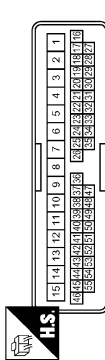
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[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D32
Connector Name	TWEETER RH
Connector Type	TK02M8R-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D41
Connector Name	DOOR WOOFER RH
Connector Type	HS02FW-CS



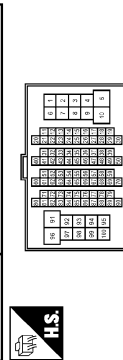
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	D46
Connector Name	DOOR SQUAWKER RH
Connector Type	TK02F8R



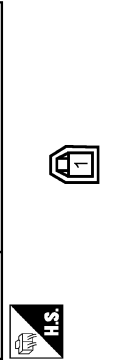
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-CS16-TM4



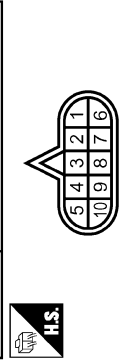
Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH (A/T)
Connector Type	TB01FW



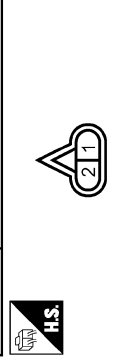
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DG1



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-

Connector No.	F56
Connector Name	BACK-UP LAMP SWITCH
Connector Type	RK02FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-

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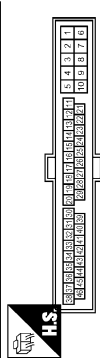
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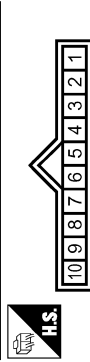
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Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10



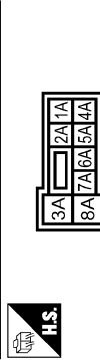
Terminal No.	Color of Wire	Signal Name [Specification]
30	R	-
31	R	-
41	O	-

Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SPT0FBGY



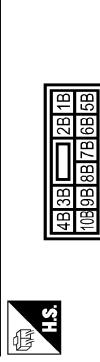
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP FLY

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS36FW-M2



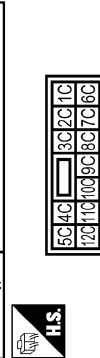
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



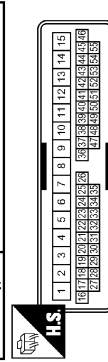
Terminal No.	Color of Wire	Signal Name [Specification]
1B	SB	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



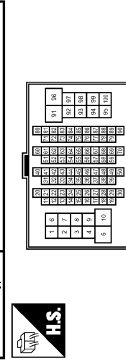
Terminal No.	Color of Wire	Signal Name [Specification]
12C	R	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	W	-
8	B	-
11	W	-
12	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

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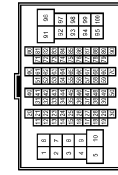
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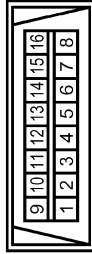
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	P	-
35	O	-
36	W	-
37	SHIELD	-
38	SB	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	O	-

44	W	-
45	SHIELD	-
46	P	-
47	G	-
48	SHIELD	-
35	O	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	MS16MW-CS



16	W	-
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Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	GR	-
5	L	-
6	LG	-
7	B	-
12	Y	-
13	SB	-
14	R	-
15	G	-

Connector No.	M33
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	LG	-

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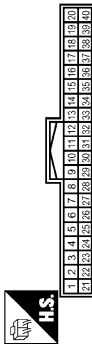
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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



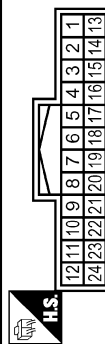
Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS30FL-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

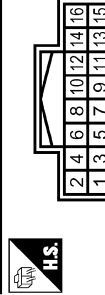
Connector No.	M71
Connector Name	DISPLAY UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	INVERTER VCC
3	O	SIGNAL VCC
4	L	AUX IMAGE GND
5	Y	COMPOSITE SYNC GND
6	L	RGB (GREEN) SIGNAL
7	SHIELD	SHIELD
8	LG	HP
9	P	RGB AREA (VS) SIGNAL
11	L	COMM (CONT->DISP)
13	BR	INVERTER GND

14	LG	SIGNAL GND
15	R	AUX IMAGE SIGNAL
17	G	RGB (RED) SIGNAL
18	P	RGB (BLUE) SIGNAL
19	Y	RGB SYNC
20	GR	VP
21	SHIELD	SHIELD
22	G	COMM (DISP->CONT)
23	SHIELD	SHIELD

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	L	ACC
6	SB	AV COMM (H)
8	W	AV COMM (L)
9	BR	SW GND
14	LG	ELECT SIGNAL (Without NAVI)

Connector No.	M81
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH16FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
6	G	STRG SW A
7	V	ACC
9	L	ILLUMINATION
15	B	STRG SW GND
18	L	STRG SW B
19	Y	BATTERY
20	B	GND

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M82
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	A12FW



21	22	23	24	25	26	27	28	29	30	31	32
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Terminal No.	Color of Wire	Signal Name [Specification]
21	W	SOUND SIGNAL LH (-)
22	B	SOUND SIGNAL LH (+)
23	R	SOUND SIGNAL RH (-)
24	G	SOUND SIGNAL RH (+)
25	SHIELD	SHIELD
26	SHIELD	SHIELD
27	SB	MODE CHANGE SIGNAL
28	P	REQUEST (SAT->CONT)
29	G	COMM (SAT->CONT)
30	L	COMM (CONT->SAT)

Connector No.	M83
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH



47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
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Terminal No.	Color of Wire	Signal Name [Specification]
36	R	AUX IMAGE SIGNAL
37	L	AUX IMAGE GND
38	P	RGB (BLUE) SIGNAL
39	L	RGB (GREEN) SIGNAL
40	G	RGB (RED) SIGNAL
41	Y	RGB SYNC
42	SHIELD	SHIELD
43	P	RGB AREA (VS) SIGNAL
44	G	COMM (DISP->CONT)
45	LG	HP
46	LG	SIGNAL GND

47	O	SIGNAL VCC
49	Y	SHIELD
50	SHIELD	SHIELD
55	SHIELD	SHIELD
56	L	COMM (CONT->DISP)
57	GR	VDD
58	BR	INVERTER GND
59	Y	INVERTER VCC

Connector No.	M84
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-NH



67	68	69	70	71	72	73	74
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Terminal No.	Color of Wire	Signal Name [Specification]
66	G	AUX IMAGE SIGNAL
73	SHIELD	SHIELD
74	R	AUX IMAGE GND

Connector No.	M85
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH32FW-NH



31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
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Terminal No.	Color of Wire	Signal Name [Specification]
79	P	TEL VOICE SIGNAL (-)
80	L	TEL VOICE SIGNAL (+)
81	SHIELD	SHIELD
82	G	iPod SOUND SIGNAL RH (-)
83	B	iPod SOUND SIGNAL RH (+)
85	B	GND
86	L	CAN-H
87	P	CAN-L
88	V	AV COMM (H)
89	LG	AV COMM (L)
90	L	AV COMM (H)

Connector No.	M86
Connector Name	AV CONTROL UNIT (WITH BOSE SYSTEM)
Connector Type	TH12FW-NH



108	109	110	111	112	113	114	115	116	117	118	119
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Terminal No.	Color of Wire	Signal Name [Specification]
108	BR	SOUND SIGNAL REAR RH (-)
109	R	SOUND SIGNAL FRONT RH (+)
110	SB	AMP. ON SIGNAL
111	SHIELD	SHIELD
112	O	SOUND SIGNAL REAR LH (+)
113	O	SOUND SIGNAL FRONT LH (+)
114	Y	SOUND SIGNAL REAR RH (-)
115	G	SOUND SIGNAL FRONT RH (-)
118	W	SOUND SIGNAL REAR LH (-)
119	W	SOUND SIGNAL FRONT LH (-)

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK (DIMP)-NS



11	12	13	14	15	16	17	18
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Terminal No.	Color of Wire	Signal Name [Specification]
1	B	- [Without NAVI]
2	W	- [Without NAVI]
3	R	- [Without NAVI]

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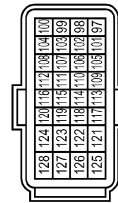
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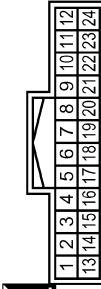
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Connector No.	M107
Connector Name	EOM
Connector Type	RH24GY-R28-R-LH-Z



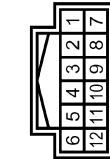
Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHGAN-L1
114	L	VEHGAN-H1

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (-)
2	B	iPod SOUND SIGNAL RH (-)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER (With A/T)
9	L	CHARGE POWER (With M/T)
10	L	COMM (iPod ADAPTER->iPod)
11	O	COMM (iPod->iPod ADAPTER)
12	W	ACCESSORY IDENTIFY

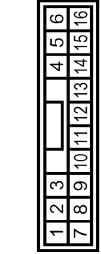
Connector No.	M114
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

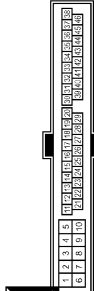
13	W	iPod SOUND SIGNAL LH (-)
14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	GC	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	R	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP18FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK38MW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
30	LG	-
31	W	-
41	O	-

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SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	V	-
32	LG	-
40	Y	-
41	G	-
42	V	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	P	-
48	L	-

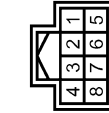
Connector No.	M134
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AUSPW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+)
2	SHIELD	SHIELD [WITHOUT NAVI]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

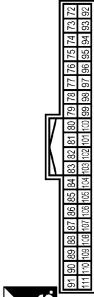
49	SHIELD	-
50	BR	-
63	L	-
64	P	-
71	Y	-
72	P	-
73	G	-
80	W	-
81	SHIELD	-
82	L	-
83	SHIELD	-
84	W	-
85	R	-
86	B	-
87	G	-
99	P	-
100	L	-

Connector No.	M155
Connector Name	WIRE TO WIRE
Connector Type	TH08PW-NH



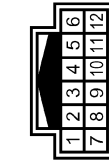
Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	SHIELD	- [WITHOUT NAVI]
3	R	-
4	W	-
5	B	-
6	SHIELD	-
7	G	-
8	R	-

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



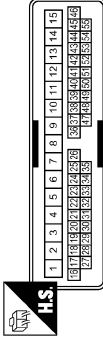
Terminal No.	Color of Wire	Signal Name [Specification]
90	P	GAN-L
91	L	GAN-H

Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-GS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	GR	-
12	BR	-

Terminal No.	12	P
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SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M382
Connector Name	iPod SIDE
Connector Type	IP18EGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION GND
10	BR	CHARGE POWER
12	L	SHIELD
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK0BEGY



Terminal No.	Color of Wire	Signal Name [Specification]
14	W	-
15	L	-
17	BR	-

Connector No.	M361
Connector Name	WIRE TO WIRE
Connector Type	TH08MMF-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	R	-
4	W	-
5	SHIELD	-
7	G	-
8	R	-

Connector No.	M382
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB0BTW



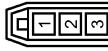
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	SOUND SIGNAL RH (+) [Without NAV]
2	SHIELD	SHIELD [Without NAV]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M370
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	GT13SH-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
33	-	FM SUB
34	-	AM FM MAIN
35	-	ANTENNA AMP. ON SIGNAL

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCH-2/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-1/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

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SATELLITE RADIO TUNER

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M379
Connector Name	WINDOW ANTENNA (SUB)
Connector Type	P01FB-A



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M381
Connector Name	WINDOW ANTENNA (MAIN)
Connector Type	P01FB-A



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

Connector No.	M386
Connector Name	ANTENNA AMP.
Connector Type	GT13SC-1/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP. ON SIGNAL
2	-	AM-FM MAIN

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TK0PW-NS8



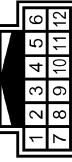
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	- [Without NAV]
2	Y	- [Without NAV]
3	SHIELD	- [Without NAV]

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	G	- [Without NAV]
5	Y	- [Without NAV]

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12AMP-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-
5	R	-

Connector No.	R17
Connector Name	MICROPHONE
Connector Type	TK03FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	MICROPHONE SIGNAL
2	SHIELD	SHIELD
4	R	MICROPHONE VCC

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NOTE:

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

TEL ADAPTER UNIT

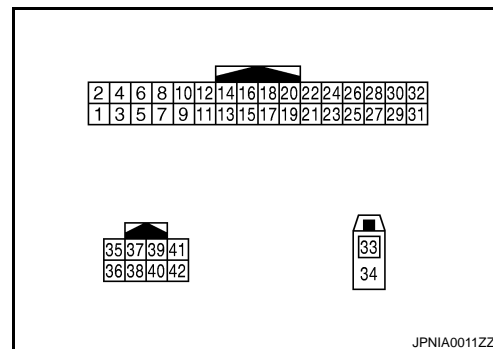
[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

TEL ADAPTER UNIT

Reference Value

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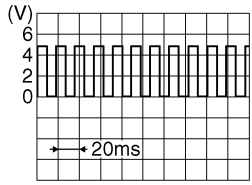
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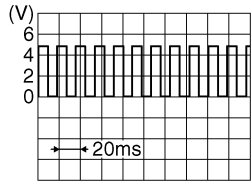
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/Output			
1 (GR)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
2 (LG)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
3 (W)	Ground	Ignition signal	Input	Ignition switch ON	—	Battery voltage
4 (B)	Ground	GND	—	Ignition switch ON	—	0 V
5	—	Shield	—	—	—	—
6	—	Shield	—	—	—	—
7 (B)	8 (R)	Microphone signal	Input	Ignition switch ON	Give a voice	<p>PKIB5037J</p>
8 (R)	Ground	Microphone GND	—	Ignition switch ON	—	0 V
9 (Y)	10 (G)	TEL voice signal	Output	Ignition switch ON	During voice guide output with the switch pressed	<p>SKIB3609E</p>

TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
14 (B)	Ground	GND	—	Ignition switch ON	—	0 V
19 (B)	Ground	GND	—	Ignition switch ON	—	0 V
22 (B)	Ground	Control signal	Input	Ignition switch ON	—	0 V
24 (B)	Ground	Control signal	Input	Ignition switch ON	—	0 V
28 (P)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is ap- prox. 40 km/h (25MPH)	NOTE: Maximum voltage may be 12 V due to specifications (connected units). 
29 (W)	8 (R)	Microphone VCC	Output	Ignition switch ON	—	5 V
33	—	TEL antenna	Input	—	—	—
34	—	Shield	—	—	—	—
35 (L)	—	AV communication signal (H)	Input/ Output	—	—	—
36 (P)	—	AV communication signal (L)	Input/ Output	—	—	—



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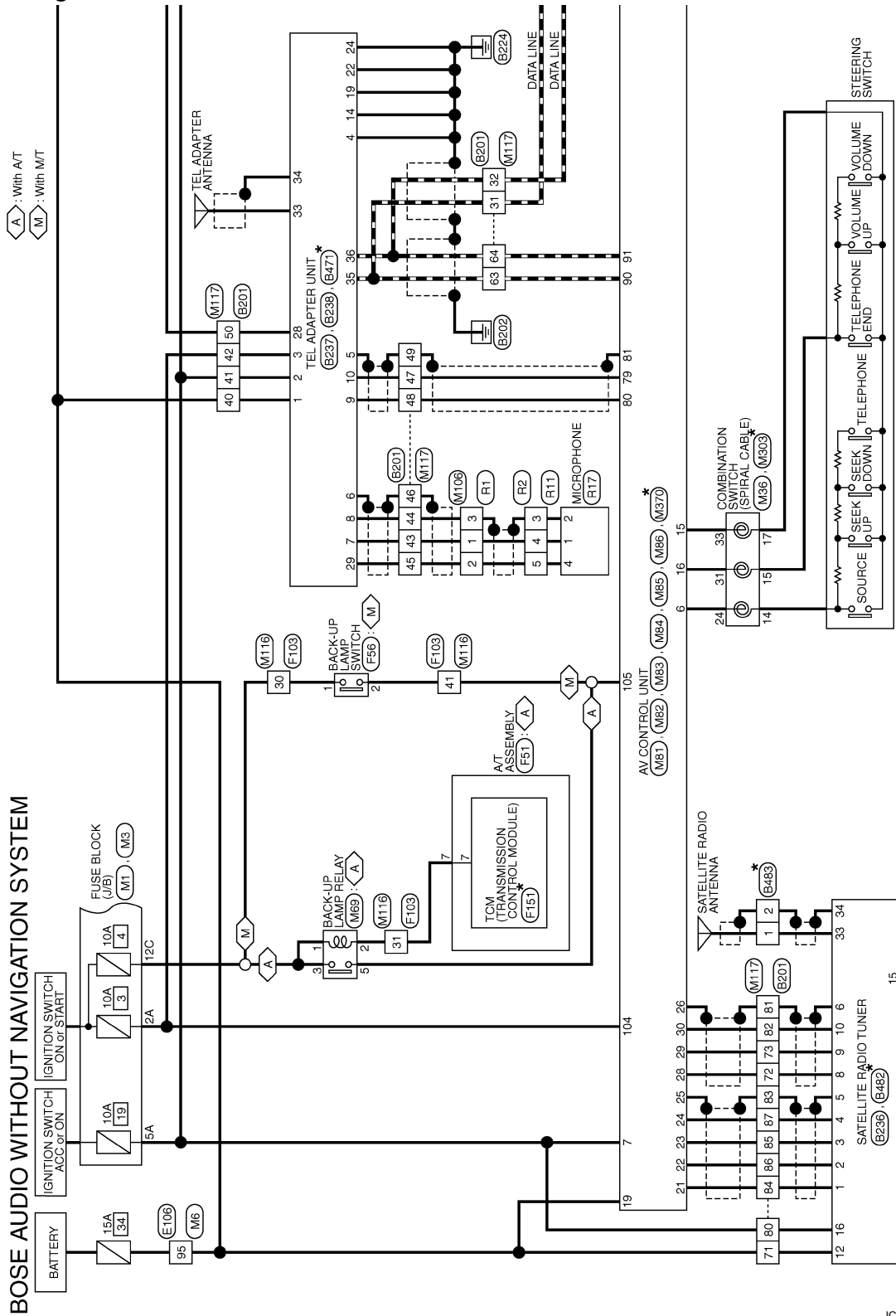
TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

Wiring Diagram - BOSE AUDIO WITHOUT NAVIGATION SYSTEM -

INFOID:000000001689693



*: This connector is not shown in "Harness Layout".

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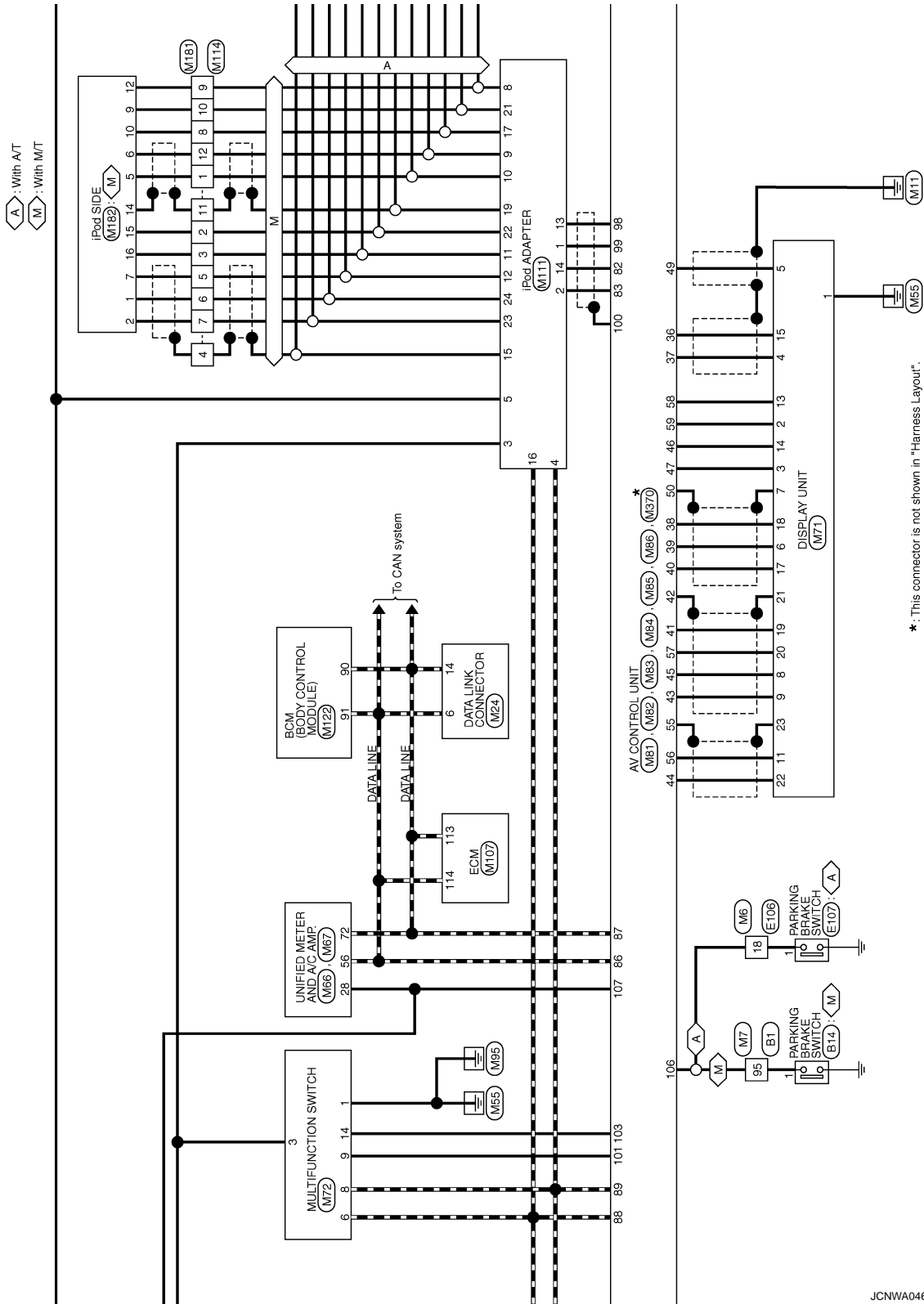
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TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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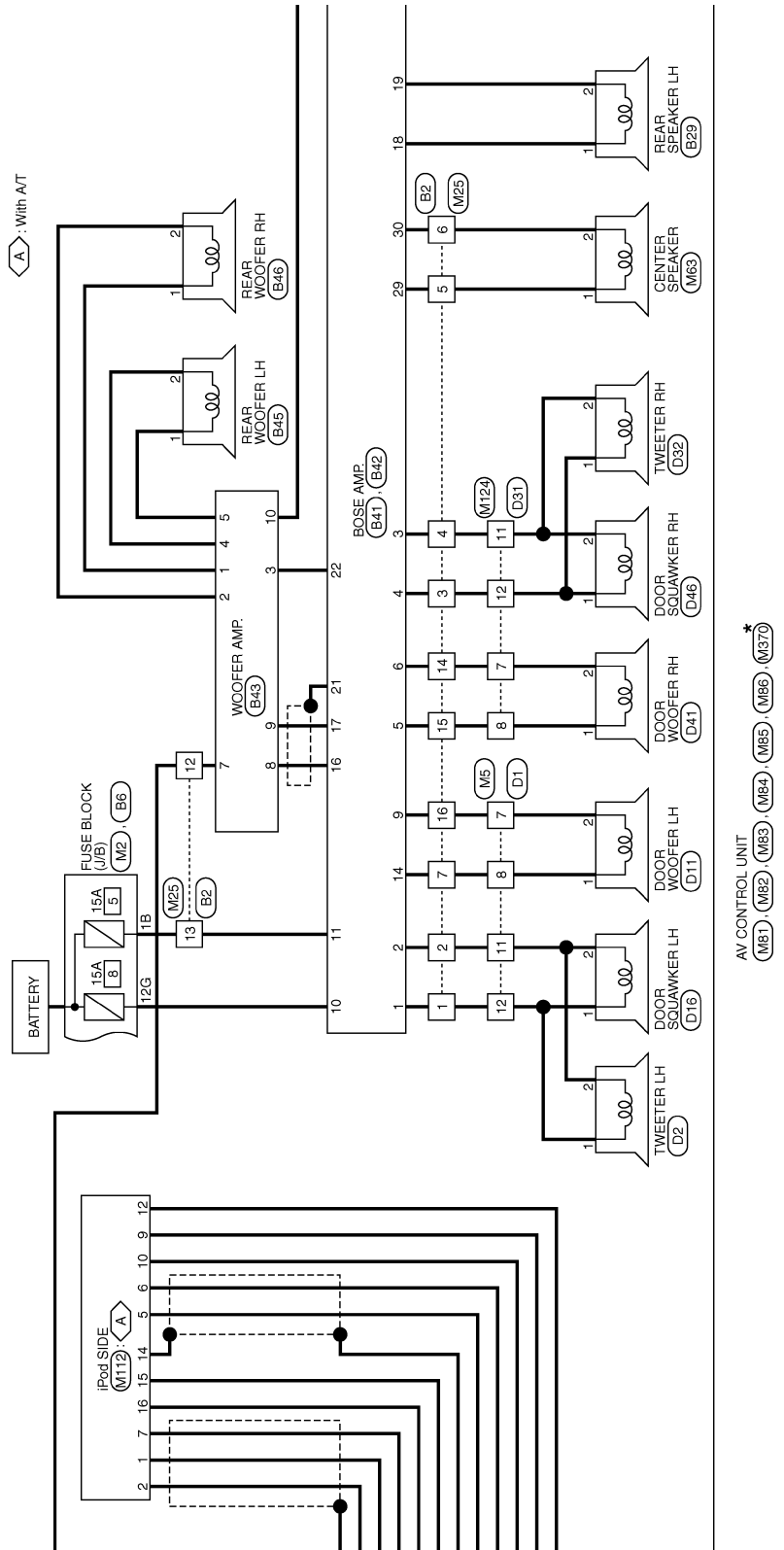


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TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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*: This connector is not shown in "Harness Layout".

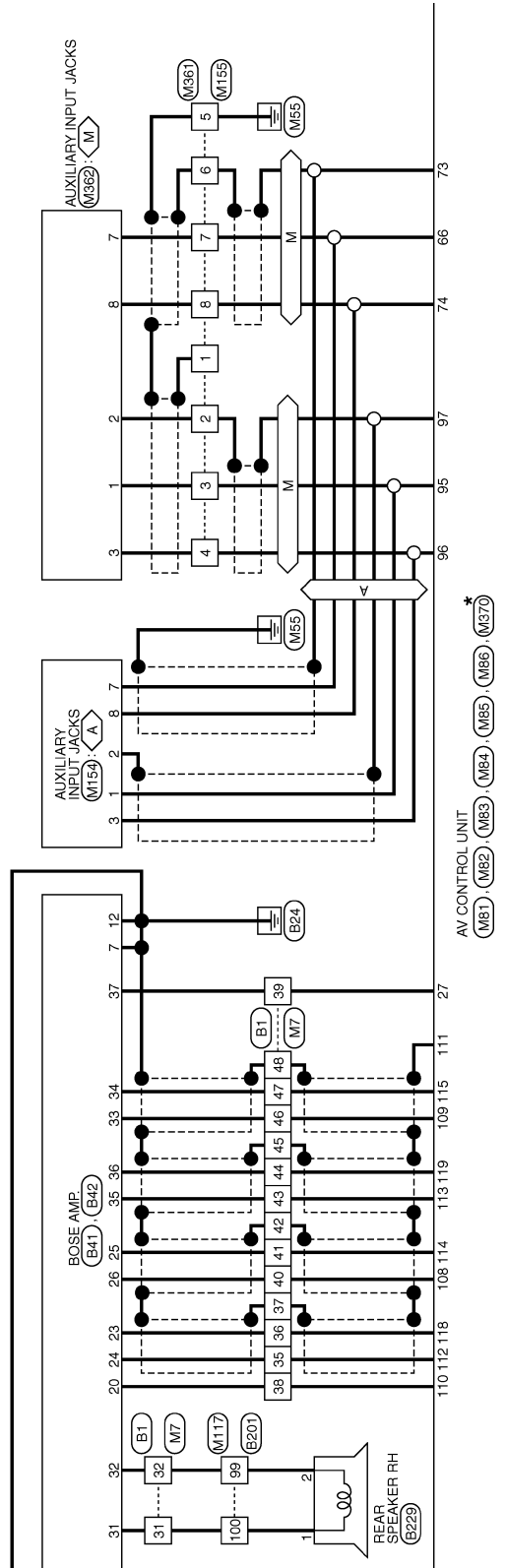
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TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

A : With A/T
M : With M/T



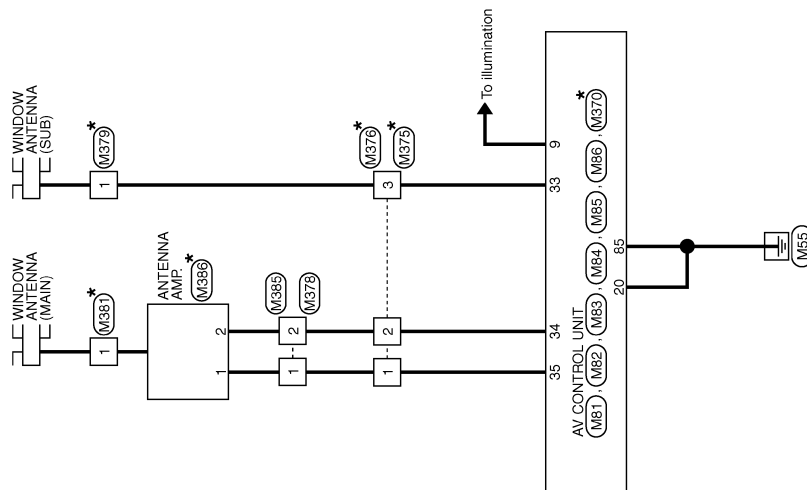
*: This connector is not shown in "Harness Layout".

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TEL ADAPTER UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]



*: This connector is not shown in "Harness Layout".

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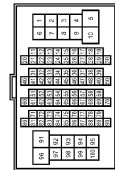
TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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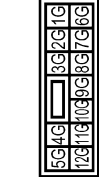
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	LG	-
32	Y	-
35	V	-
36	SB	-
37	SHIELD	-
38	W	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	P	-

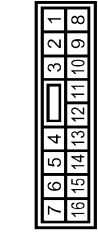
Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	MS12PBR-CS



Terminal No.	IZG	Color of Wire	Y	Signal Name [Specification]	-
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44	L	-
45	SHIELD	-
46	P	-
47	G	-
48	SHIELD	-
98	V	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	MS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	V	-
4	LG	-
5	L	-
6	O	-
7	B	-
12	Y	-
13	GR	-
14	R	-
15	G	-

Connector No.	B29
Connector Name	REAR SPEAKER LH
Connector Type	TK02MBR-P



Terminal No.	1	Color of Wire	L	Signal Name [Specification]	-
2	P	-	-	-	-

Connector No.	B14
Connector Name	PARKING BRAKE SWITCH (M/T)
Connector Type	P01FB-A



Terminal No.	1	Color of Wire	V	Signal Name [Specification]	-
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16	W	-
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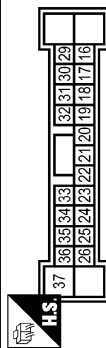
TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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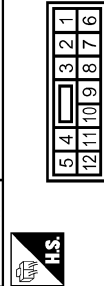
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FER-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
16	SB	SOUND SIGNAL WOOFER (+)
17	V	SOUND SIGNAL WOOFER (-)
18	L	SOUND SIGNAL REAR LH (+)
19	P	SOUND SIGNAL REAR LH (-)
20	W	AMP. ON SIGNAL
21	SHIELD	SHIELD
22	GR	WOOFER AMP. ON SIGNAL
23	SB	SOUND SIGNAL REAR LH (+)
24	V	SOUND SIGNAL REAR LH (-)
25	Y	SOUND SIGNAL REAR RH (+)
26	BR	SOUND SIGNAL REAR RH (-)

Connector No.	B43
Connector Name	WOOFER AMP.
Connector Type	NS12FW-CS

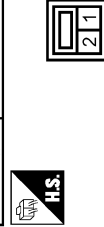


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR WOOFER RH (+)
2	R	REAR WOOFER RH (-)
3	GR	WOOFER AMP. ON SIGNAL
4	B	REAR WOOFER LH (+)
5	W	REAR WOOFER LH (-)
7	Y	REAR WOOFER LH (+)
8	SB	SOUND SIGNAL WOOFER (+)
9	V	SOUND SIGNAL WOOFER (-)
10	B	GND

29	L	SOUND SIGNAL CENTER (+)
30	O	SOUND SIGNAL CENTER (-)
31	LG	SOUND SIGNAL REAR RH (+)
32	V	SOUND SIGNAL REAR RH (-)
33	R	SOUND SIGNAL FRONT RH (+)
34	G	SOUND SIGNAL FRONT RH (-)
35	P	SOUND SIGNAL FRONT LH (+)
36	L	SOUND SIGNAL FRONT LH (-)
37	SB	MODE CHANGE SIGNAL

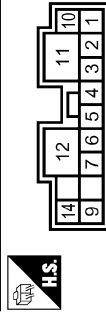
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	DOOR SQUAWKER LH (+)
2	W	DOOR SQUAWKER LH (-)
3	LG	DOOR SQUAWKER RH (-)
4	V	DOOR SQUAWKER RH (+)
5	G	DOOR WOOFER RH (+)
6	R	DOOR WOOFER RH (-)
7	B	GND
9	W	DOOR WOOFER LH (+)
10	Y	BATTERY
11	GR	BATTERY
12	B	GND

Connector No.	B46
Connector Name	REAR WOOFER RH
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SCA12FER-SJA2



14	B	DOOR WOOFER LH (+)
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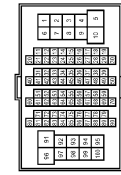
TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-GS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	G	-
32	R	-
40	GR	-
41	LG	-
42	W	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	G	-
48	Y	-

Connector No.	B236
Connector Name	SATELLITE RADIO TUNER
Connector Type	A16PW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	SOUND SIGNAL LH (-)
2	R	SOUND SIGNAL LH (+)
3	W	SOUND SIGNAL RH (-)
4	B	SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD
8	Y	REQUEST (SAT->CONT)
9	O	COMM (SAT->CONT)
10	BR	COMM (CONT->SAT)
12	SB	BATTERY
13	B	GND

Connector No.	B229
Connector Name	REAR SPEAKER RH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	-

Connector No.	B237
Connector Name	TEL ADAPTER UNIT
Connector Type	TH82FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	BATTERY
2	LG	ACC
3	W	IGNITION
4	B	GND
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	B	MICROPHONE SIGNAL
8	R	MICROPHONE GND
9	Y	TEL VOICE SIGNAL (+)
10	G	TEL VOICE SIGNAL (-)
14	B	GND

19	B	GND
22	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
23	P	VEHICLE SPEED (8-PULSE)
29	W	MICROPHONE VCC

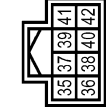



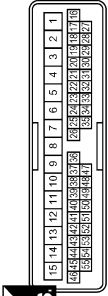



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TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No. B238	TEL ADAPTER UNIT	Connector No. B471	TEL ADAPTER UNIT	Connector No. B482	SATELLITE RADIO TUNER	Connector No. B483	SATELLITE RADIO ANTENNA
Connector Name TH88FW-NH		Connector Name GT16C-TS-TUJ		Connector Name SATELLITE RADIO TUNER		Connector Name GT16C-TPP-TUJ	
Connector Type H.S.		Connector Type H.S.		Connector Type H.S.		Connector Type H.S.	
Terminal No. 35 36	L P	Terminal No. 33 34	SHIELD SHIELD	Terminal No. 33 34	SHIELD SHIELD	Terminal No. 1 2	SHIELD SHIELD
Signal Name [Specification]	AV COMM (H) AV COMM (L)	Signal Name [Specification]	TEL ANTENNA SHIELD	Signal Name [Specification]	SATELLITE ANTENNA SHIELD	Signal Name [Specification]	
							
Connector No. D1	WIRE TO WIRE	Connector No. D2	TWEETER LH	Connector No. D11	DOOR WOOFER LH	Connector No. D16	DOOR SQUAWKER LH
Connector Name TH4UFW-CS15		Connector Name TK02MBR-P		Connector Name NS02FW-CS		Connector Name TK02FBR	
Connector Type H.S.		Connector Type H.S.		Connector Type H.S.		Connector Type H.S.	
Terminal No. 7 8 11 12	R G W L	Terminal No. 1 2	L W	Terminal No. 1 2	G R	Terminal No. 1 2	L W
Signal Name [Specification]		Signal Name [Specification]		Signal Name [Specification]		Signal Name [Specification]	
							

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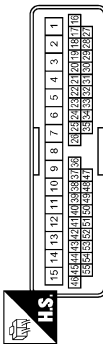
TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

< ECU DIAGNOSIS >

BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D32
Connector Name	TWEETER RH
Connector Type	TK02M8R-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D41
Connector Name	DOOR WOOFER RH
Connector Type	HS02FW-CS



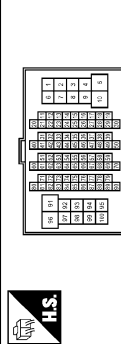
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	D46
Connector Name	DOOR SQUAWKER RH
Connector Type	TK02F8R



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-CS16-TM4



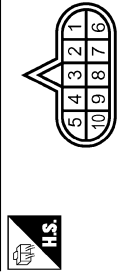
Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH (A/T)
Connector Type	TB01FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DG1



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-

Connector No.	F56
Connector Name	BACK-UP LAMP SWITCH
Connector Type	RK02FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-

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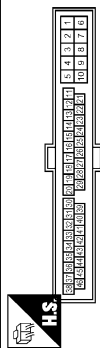
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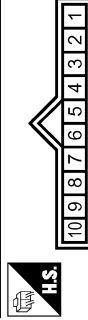
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
30	R	-
31	R	-
41	O	-

Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SPT0FBGY



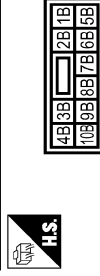
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS36FW-M2



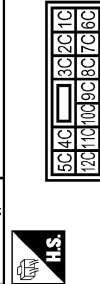
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



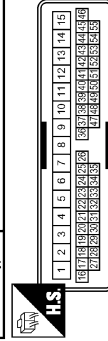
Terminal No.	Color of Wire	Signal Name [Specification]
1B	SB	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



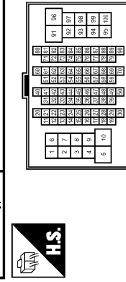
Terminal No.	Color of Wire	Signal Name [Specification]
12C	R	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	W	-
8	B	-
11	W	-
12	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
95	Y	-

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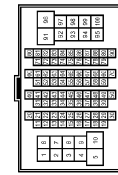
TEL ADAPTER UNIT

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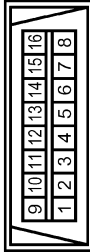
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



44	W	-
45	SHIELD	-
46	P	-
47	G	-
48	SHIELD	-
95	O	-



Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	P	-
35	O	-
36	W	-
37	SHIELD	-
38	SB	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	O	-



Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	MS16MW-CS



16	W	-
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Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V



Connector No.	M33
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	GR	-
5	L	-
6	LG	-
7	B	-
12	Y	-
13	SB	-
14	R	-
15	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
24	G	-
31	L	-
33	B	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	LG	-

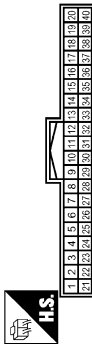
TEL ADAPTER UNIT

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS30FL-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

Connector No.	M71
Connector Name	DISPLAY UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	INVERTER VCC
3	O	SIGNAL VCC
4	L	AUX IMAGE GND
5	Y	COMPOSITE SYNC GND
6	L	RGB (GREEN) SIGNAL
7	SHIELD	SHIELD
8	LG	HP
9	P	RGB AREA (VS) SIGNAL
11	L	COMM (CONT->DISP)
13	BR	INVERTER GND

Terminal No.	Color of Wire	Signal Name [Specification]
14	LG	SIGNAL GND
15	R	AUX IMAGE SIGNAL
17	G	RGB (RED) SIGNAL
18	P	RGB (BLUE) SIGNAL
19	Y	RGB SYNC
20	GR	VP
21	SHIELD	SHIELD
22	G	COMM (DISP->CONT)
23	SHIELD	SHIELD

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	L	ACC
6	SB	AV COMM (H)
8	W	AV COMM (L)
9	BR	SW GND
14	LG	ELECT SIGNAL (Without NAVI)

Connector No.	M81
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
6	G	STRG SW A
7	V	ACC
9	L	ILLUMINATION
15	B	STRG SW GND
18	L	STRG SW B
19	Y	BATTERY
20	B	GND

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TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M82
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	A12FW



22	24	30	32
21	23	25	26
27	28	29	31

Terminal No.	Color of Wire	Signal Name [Specification]
21	W	SOUND SIGNAL LH (-)
22	B	SOUND SIGNAL LH (+)
23	R	SOUND SIGNAL RH (-)
24	G	SOUND SIGNAL RH (+)
25	SHIELD	SHIELD
26	SHIELD	SHIELD
27	SB	MODE CHANGE SIGNAL
28	P	REQUEST (SAT->CONT)
29	G	COMM (SAT->CONT)
30	L	COMM (CONT->SAT)

Connector No.	M83
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH24FW-NH



47	46	45	44	43	42	41	40	39	38	37	36
59	58	57	56	55	54	53	52	51	50	49	48

Terminal No.	Color of Wire	Signal Name [Specification]
36	R	AUX IMAGE SIGNAL
37	L	AUX IMAGE GND
38	P	RGB (BLUE) SIGNAL
39	L	RGB (GREEN) SIGNAL
40	G	RGB (RED) SIGNAL
41	Y	RGB SYNC
42	SHIELD	SHIELD
43	P	RGB AREA (VS) SIGNAL
44	G	COMM (DISP->CONT)
45	LG	HP
46	LG	SIGNAL GND

Connector No.	M85
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH32FW-NH



31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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Terminal No.	Color of Wire	Signal Name [Specification]
79	P	TEL VOICE SIGNAL (-)
80	L	TEL VOICE SIGNAL (+)
81	SHIELD	SHIELD
82	G	iPod SOUND SIGNAL RH (-)
83	B	iPod SOUND SIGNAL RH (+)
85	B	GND
86	L	CAN-H
87	P	CAN-L
88	V	AV COMM (H)
89	LG	AV COMM (L)
90	L	AV COMM (H)

47	O	SIGNAL VCC
49	Y	SHIELD
50	SHIELD	SHIELD
55	SHIELD	SHIELD
56	L	COMM (CONT->DISP)
57	GR	VCC
58	BR	INVERTER GND
59	Y	INVERTER VCC

Connector No.	M84
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	TH18FW-NH



67	66	65	64	63	62	61	60
75	74	73	72	71	70	69	68

Terminal No.	Color of Wire	Signal Name [Specification]
66	G	AUX IMAGE SIGNAL
73	SHIELD	SHIELD
74	R	AUX IMAGE GND

Connector No.	M86
Connector Name	AV CONTROL UNIT (WITH BOSE SYSTEM)
Connector Type	TH12FPW-NH



114	113	116	117	118	119
108	109	110	111	112	113

Terminal No.	Color of Wire	Signal Name [Specification]
108	BR	SOUND SIGNAL REAR RH (-)
109	R	SOUND SIGNAL FRONT RH (+)
110	SB	AMP. ON SIGNAL
111	SHIELD	SHIELD
112	O	SOUND SIGNAL REAR LH (+)
113	O	SOUND SIGNAL FRONT LH (+)
114	Y	SOUND SIGNAL REAR RH (-)
115	G	SOUND SIGNAL FRONT RH (-)
118	W	SOUND SIGNAL REAR LH (-)
119	W	SOUND SIGNAL FRONT LH (-)

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK (DIMP)-NSB



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	- [Without NAVI]
2	W	- [Without NAVI]
3	R	- [Without NAVI]

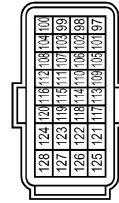
TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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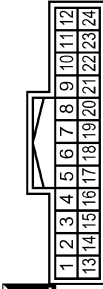
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M107
Connector Name	EOM
Connector Type	RH24GY-R28-R-LH-Z



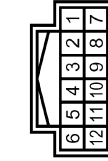
Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHGAN-L1
114	L	VEHGAN-H1

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (-)
2	B	iPod SOUND SIGNAL RH (-)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER (With A/T)
9	L	CHARGE POWER (With M/T)
10	L	COMM (iPod ADAPTER->iPod)
11	O	ACCESSORY IDENTIFY
12	W	iPod SOUND SIGNAL RH (+)

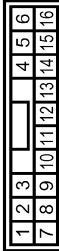
Connector No.	M114
Connector Name	WIRE TO WIRE
Connector Type	TH12PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

13	W	iPod SOUND SIGNAL LH (-)
14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	GC	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	R	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP18GY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK38MW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
30	LG	-
31	W	-
41	O	-

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TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	V	-
32	LG	-
40	Y	-
41	G	-
42	V	-
43	B	-
44	R	-
45	W	-
46	SHIELD	-
47	P	-
48	L	-

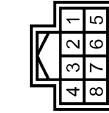
Connector No.	M134
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AUSPW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+)
2	SHIELD	SHIELD [Without NAVI]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

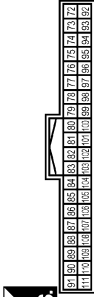
49	SHIELD	-
50	BR	-
63	L	-
64	P	-
71	Y	-
72	P	-
73	G	-
80	W	-
81	SHIELD	-
82	L	-
83	SHIELD	-
84	W	-
85	R	-
86	B	-
87	G	-
99	P	-
100	L	-

Connector No.	M155
Connector Name	WIRE TO WIRE
Connector Type	TH08PW-NH



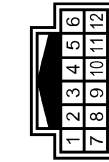
Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	SHIELD	- [Without NAVI]
3	R	-
4	W	-
5	B	-
6	SHIELD	-
7	G	-
8	R	-

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



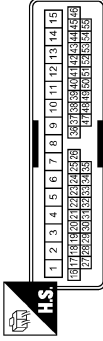
Terminal No.	Color of Wire	Signal Name [Specification]
90	P	GAN-L
91	L	GAN-H

Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-GS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	GR	-
12	BR	-

Terminal No.	12	P
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TEL ADAPTER UNIT

[BOSE AUDIO WITHOUT NAVIGATION]

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BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M382
Connector Name	iPod SIDE
Connector Type	IP18EGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	L	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK0BEGY



Terminal No.	Color of Wire	Signal Name [Specification]
14	W	-
15	L	-
17	BR	-
20	B	-
21	L	-
22	BR	-
23	L	-

Connector No.	M361
Connector Name	WIRE TO WIRE
Connector Type	TH08MMF-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	R	-
4	W	-
5	SHIELD	-
7	G	-
8	R	-

Connector No.	M382
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB0BTW



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	SOUND SIGNAL RH (+) [Without NAV]
2	SHIELD	SHIELD [Without NAV]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M370
Connector Name	AV CONTROL UNIT (WITHOUT NAVI)
Connector Type	GT13SH-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
33	-	FM SUB
34	-	AM FM MAIN
35	-	ANTENNA AMP. ON SIGNAL

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCH-2/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M378
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-1/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-

JCNWA0478GE

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AV

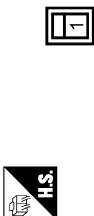
BOSE AUDIO WITHOUT NAVIGATION SYSTEM

Connector No.	M379
Connector Name	WINDOW ANTENNA (SUB)
Connector Type	P01FB-A



Terminal No.	1	Signal Name [Specification]
1	-	-

Connector No.	M381
Connector Name	WINDOW ANTENNA (MAIN)
Connector Type	P01FB-A



Terminal No.	1	Signal Name [Specification]
1	-	-

Connector No.	M385
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-1/1S-HU



Terminal No.	1	Signal Name [Specification]
2	-	-

Connector No.	M386
Connector Name	ANTENNA AMP.
Connector Type	GT13SC-1/1S-HU



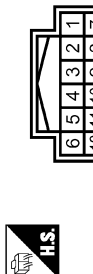
Terminal No.	1	Signal Name [Specification]
2	-	ANTENNA AMP. ON SIGNAL
2	-	AM-FM MAIN

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TK0PW-NS8



Terminal No.	1	Signal Name [Specification]
2	G	- [Without NAV]
3	Y	- [Without NAV]
3	SHIELD	- [Without NAV]

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12PW-NH



Terminal No.	3	Signal Name [Specification]
4	G	- [Without NAV]
5	Y	- [Without NAV]

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	3	Signal Name [Specification]
4	W	-
5	R	-

Connector No.	R17
Connector Name	MICROPHONE
Connector Type	TK03FW



Terminal No.	1	Signal Name [Specification]
2	W	MICROPHONE SIGNAL
4	R	SHIELD
4	R	MICROPHONE VCC

NOTE:

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

JCNWA0479GE

SYMPTOM DIAGNOSIS

MULTI AV SYSTEM SYMPTOMS

Symptom Table

INFOID:000000001676323

OPERATION

Symptoms	Check items	Possible malfunction location / Action to take
Multifunction switch and preset switch operation does not work.	<ul style="list-style-type: none"> All switches cannot be operated. "MULTI AV" is displayed on system selection screen when the CONSULT-III is started. 	<ul style="list-style-type: none"> Multifunction switch power supply and ground circuit. AV communication circuit between AV control unit and multifunction switch. Perform CONSULT-III self-diagnosis. Refer to AV-145, "CONSULT - III Function (MULTI AV)" .
	<ul style="list-style-type: none"> All switches cannot be operated. "MULTI AV" is not displayed on system selection screen when the CONSULT-III is started. 	AV control unit power supply and ground circuit malfunction. Refer to AV-160, "AV CONTROL UNIT : Diagnosis Procedure" .
	Only specified switch cannot be operated.	Multifunction switch or preset switch malfunction. Perform multifunction switch and preset switch self-diagnosis function. Refer to AV-136, "Diagnosis Description" .

RELATED TO HANDS-FREE PHONE

Basic Inspection

- Check that the cellular phone is corresponding type (Bluetooth® correspond) when the hands-free related malfunction vehicle is in service before performing a diagnosis.
- There is a case that malfunction occurs due to the version change of the phone type, etc. even though it is a corresponding type. Therefore, confirm it by changing the cellular phone to another corresponding type phone, and check that it operates normally. It is necessary to distinguish whether the cause is the vehicle or cellular phone.

Simple check for Bluetooth® communication

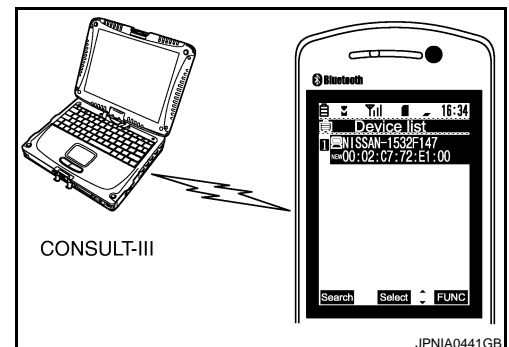
- If cellular phone and AV control unit cannot be connected with Bluetooth® communication, following procedure allows the technician to judge which device has malfunction.

- Turn on a cellular phone, not connecting Bluetooth® communication.
- Start CONSULT-III, then start Windows®.
- Set CONSULT-III near a cellular phone.
- When operated Bluetooth® registration by cellular phone, check if CONSULT-III* would be displayed on the device name.
(If other Bluetooth® device is located near cellular phone, a name of the device would be displayed also.)

NOTE:

*:Displayed device name is "NISSAN-*****".

- If no device name is displayed, cellular phone is malfunctioning. Repair the cellular phone first, then perform diagnosis.
- If CONSULT-III is displayed on device name, cellular phone is normal. Perform diagnosis as per the following table.



On board self-diagnosis of hands-free phone system

Always perform the on board self-diagnosis at first after completing the basic inspection when the malfunction is detected on the hands-free phone system. Narrow down possible causes using the Diagnosis Chart if there is no malfunction in the on board self-diagnosis.

Trouble diagnosis chart by symptom

MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITHOUT NAVIGATION]

< SYMPTOM DIAGNOSIS >

Symptoms	Check items	Probable malfunction location
Does not recognize cellular phone connection. (No connection is displayed on the display at the guide.)	Repeat the registration of cellular phone.	TEL adapter unit malfunction. Refer to AV-363, "Exploded View" .
Hands-free phone cannot be established.	Both the reception and the speech cannot be performed	<ul style="list-style-type: none"> Perform CONSULT-III self-diagnosis. Refer to AV-145, "CONSULT - III Function (MULTI AV)". No malfunction. TEL adapter unit malfunction. Refer to AV-363, "Exploded View". Malfunction is detected. Refer to AV-145, "CONSULT - III Function (MULTI AV)".
The other party's voice cannot be heard by hands-free phone.	The operation of the "☞" switch can be performed.	TEL voice signal circuit malfunction between TEL adapter unit and AV control unit.
	The operation of the "☞" switch cannot be performed.	Control signal circuit. Refer to AV-148, "Diagnosis Description" .
Originating sound is not heard by the other party with hands-free phone communication.	Sound operation function is normal.	TEL adapter unit. Refer to AV-363, "Exploded View" .
	Sound operation function does not work.	Microphone signal circuit. Refer to AV-176, "Diagnosis Procedure" .

RELATED TO RGB IMAGE

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take
RGB image is not shown.	There is malfunction in the CONSULT-III self-diagnosis result.	Perform CONSULT-III self-diagnosis. Refer to AV-145, "CONSULT - III Function (MULTI AV)" .
	There is no malfunction in CONSULT-III self-diagnosis results.	<ul style="list-style-type: none"> Display unit power supply and ground circuit. Refer to AV-160, "DISPLAY UNIT : Diagnosis Procedure". Vertical synchronizing (VP) signal circuit. Refer to AV-172, "Diagnosis Procedure".
Color of RGB image is not proper.	Light blue (Cyan) tint.	RGB signal (R: red) circuit. Refer to AV-166, "Diagnosis Procedure" .
	Purple (Magenta) tint.	RGB signal (G: green) circuit. Refer to AV-167, "Diagnosis Procedure" .
	Screen looks yellowish.	RGB signal (B: blue) circuit. Refer to AV-168, "Diagnosis Procedure" .
RGB screen is rolling.	—	RGB synchronizing signal circuit. Refer to AV-169, "Diagnosis Procedure" .
Fuel economy display is malfunctioning.	There is malfunction in the CONSULT-III self-diagnosis result.	Perform CONSULT-III self-diagnosis. Refer to AV-145, "CONSULT - III Function (MULTI AV)" .
	There is no malfunction in CONSULT-III self-diagnosis results.	Ignition signal circuit malfunction. Refer to AV-160, "AV CONTROL UNIT : Diagnosis Procedure" .

RELATED TO AUDIO

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take
The CD cannot be removed.	—	CD eject signal circuit.

MULTI AV SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Symptoms	Check items	Possible malfunction location / Action to take
Audio sound is not heard.	No sound from all speakers.	<ul style="list-style-type: none"> BOSE amp. power supply and ground circuit. Refer to AV-162, "BOSE AMP. : Diagnosis Procedure". Amp. ON signal circuit
	Sound is not heard from rear woofer.	<ul style="list-style-type: none"> Woofer amp. power supply and ground circuit. Refer to AV-163, "WOOFER AMP. : Diagnosis Procedure". Sound signal woofer circuit between BOSE amp. and woofer amp. Sound signal woofer circuit between woofer amp. and rear woofer. Woofer amp. ON signal circuit between BOSE amp. and woofer amp.
	Sound is not heard from center speaker.	Sound signal center speaker circuit.
	Sound is heard only from specific places (RH front, RH rear, LH front and LH rear).	Sound signal circuit of malfunctioning system.
It does not change to "Driver's Audio Stage" mode.	—	Mode change signal circuit. Refer to AV-178, "Diagnosis Procedure" .
Satellite radio is not received.	"ANTENNA" is not displayed even when the channel is turned to 0 in Satellite radio mode.	Perform the following inspection procedure. <ol style="list-style-type: none"> Check satellite radio antenna mounting nut for looseness. <p>NOTE: Tightening torque: 6.5 N·m (0.66 kg·m, 58 in·lb.)</p> <ol style="list-style-type: none"> Visually check for satellite radio antenna feeder. Replace the satellite radio antenna. Refer to AV-355, "Exploded View". Replace the satellite radio tuner. Refer to AV-354, "Exploded View".
	"ANTENNA" is displayed when the channel is turned to 0 in Satellite radio mode.	Perform the following inspection procedure. <ol style="list-style-type: none"> Check the connection between Satellite radio tuner and antenna feeder. Check the connection between Satellite radio antenna and antenna feeder. Check Antenna feeder for open circuit. Replace the satellite radio antenna. Refer to AV-355, "Exploded View". Replace the satellite radio tuner. Refer to AV-354, "Exploded View".
The sound of Satellite radio is not heard.	Other audio sounds are normal.	Satellite radio sound signal circuit between AV control unit and satellite radio tuner.
It does not change to Satellite radio mode.	There is malfunction in the CONSULT-III self-diagnosis result.	Perform CONSULT-III self-diagnosis. Refer to AV-145, "CONSULT - III Function (MULTI AV)" .
AM/FM radio is not received.	Other audio sounds are normal.	<ul style="list-style-type: none"> Antenna amp. ON signal circuit. Antenna feeder.

RELATED TO iPod®

Trouble diagnosis chart by symptom

Connect another iPod® and check if the symptom is reproduced or not. If the symptom is reproduced, diagnose the vehicle. If no malfunction is detected, replace the iPod harness.

NOTE:

It is unable to check that between iPod® and iPod harness.

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AV

MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITHOUT NAVIGATION]

< SYMPTOM DIAGNOSIS >

Symptoms	Check items	Possible malfunction location / Action to take
The sound of iPod® is not heard.	Other audio sounds are normal.	<ul style="list-style-type: none"> iPod sound signal circuit between AV control unit and iPod adapter. iPod sound signal circuit between iPod® and iPod adapter.
It does not change to iPod mode.	There is malfunction in the CONSULT-III self-diagnosis.	Perform CONSULT-III self-diagnosis. Refer to AV-145, "CONSULT - III Function (MULTI AV)" .
"iPod is not connected" is displayed when it comes to iPod mode.	Connected to iPod®.	iPod connection recognition signal circuit between iPod® and iPod adapter.
iPod® cannot charge the battery.	—	iPod battery charge circuit between iPod® and iPod adapter.
The title of music file in the iPod® is not indicated.	—	Communication circuit between iPod® and iPod adapter.
Accessing the iPod® is unavailable from the vehicle.	—	

RELATED TO STEERING SWITCH

Trouble diagnosis chart by symptom

Symptoms	Probable malfunction location
None of the steering switch operations work.	Steering switch signal GND circuit. Refer to AV-186, "Diagnosis Procedure" .
Only specified switch cannot be operated.	Steering switch. Refer to AV-358, "Exploded View" .
"SOURCE", "MENU UP", "MENU DOWN", "⏪ ⏩" switches of steering switch are not operated.	Steering switch signal A circuit. Refer to AV-182, "Diagnosis Procedure" .
"VOL UP", "VOL DOWN", "⏮ ⏭" switches of steering switch are not operated.	Steering switch signal B circuit. Refer to AV-184, "Diagnosis Procedure" .

AUX

NOTE:

Check that there is no malfunction of AUX equipment main body before performing a diagnosis.

Trouble diagnosis chart by symptom

Symptoms	Check items	Probable malfunction location
No voice sound is heard when AUX mode is selected.	Voice sound is heard when other modes are selected.	AUX sound signal circuits malfunction between auxiliary input jacks and AV control unit.
Image is not displayed when AUX mode is selected.	—	<ul style="list-style-type: none"> AUX image signal circuit malfunction between auxiliary input jacks and AV control unit. Refer to AV-173, "Diagnosis Procedure". Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and display unit. Refer to AV-171, "Diagnosis Procedure". RGB area (YS) signal circuit malfunction between AV control unit and display unit. Refer to AV-170, "Diagnosis Procedure".
It does not change from AUX mode to other modes.	—	Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit. Refer to AV-172, "Diagnosis Procedure" .

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

NORMAL OPERATING CONDITION

Description

INFOID:000000001676324

BASIC OPERATIONS

Symptom	Possible cause	Possible solution
No image is displayed.	The brightness is at the lowest setting.	Adjust the brightness of the display.
	The system is in the video mode.	Push <DISC> to change the mode.
	The display is turned off.	Push <Day/Night> to turn on the display.
The screen is too dim. The movement is slow.	The temperature in the interior of the vehicle is low.	Wait until the interior of the vehicle has warmed up.
Some pixels in the display are darker or brighter than others.	This condition is an inherent characteristic of liquid crystal displays.	This is not a malfunction.
Some menu items cannot be selected.	Some menu items become unavailable while the vehicle is driven.	Park the vehicle in a safe location, and then operate the multi AV system.

RELATED TO VOICE RECOGNITION

Related to telephone

The system should respond correctly to all voice commands without difficulty. If problems are encountered, try the following solutions.

Where the solutions are listed by number, try each solution in turn, starting with number 1, until the problem is resolved.

Symptom	Solution
System fails to interpret the command correctly.	1. Ensure that the command is valid.
	2. Ensure that the command is spoken after the tone.
	3. Speak clearly without pausing between words and at level appropriate to the ambient noise level in the vehicle.
	4. Ensure that the ambient noise level is not excessive (for example, windows open or defroster on).
	NOTE: If it is too noisy to use the phone, it is likely that the voice commands will be recognized.
	5. If more than one command was said at a time, try saying the commands separately.
The system consistently selects the wrong voicetag	6. If the system consistently fails to recognize commands, the voice training procedure should be carried out to improve the recognition response for the speaker. See "Speaker adaptation (SA) mode" earlier in this section. Refer to "OWNER'S MANUAL".
	1. Ensure that the phone book entry name requested matches what was originally stored. This can be confirmed by using the "List Names" command.
	2. Replace one of the names being confused with a new name.

RELATED TO AUDIO

- The majority of the audio malfunctions are the result of outside causes (bad CD/cassette, electromagnetic interference, etc.). Check the symptoms below to diagnose the malfunction.
- The vehicle itself can be a source of noise if noise prevention parts or electrical equipment is malfunctioning. Check if noise is caused and/or changed by engine speed, ignition switch turned to each position, and operation of each piece of electrical equipment, and then determine the cause.

NOTE:

- CD-R is not guaranteed to play because they can contain compressed audio (MP3, WMA) or could be incorrectly mastered by the customer on a computer.
- Check if the CDs carry the Compact Disc Logo. If not, the disc is not mastered to the "red book" Compact Disc Standard and may not play.

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITHOUT NAVIGATION]

Symptom	Cause and Counter measure
Cannot play	Check if the CD was inserted correctly.
	Check if the CD is scratched or dirty.
	Check if there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.
	If there is a temperature increase error, the player will play correctly after it returns to the normal temperature.
	If there is a mixture of music CD files (CD-DA data) and MP3/WMA files on a CD, only the music CD files (CD-DA data) will be played.
	Files with extensions other than ".MP3", ".WMA", ".mp3", or ".wma" cannot be played. In addition, the character codes and number of characters for folder names and file names should be in compliance with the specifications.
	Check if the disc or the file is generated in an irregular format, This may occur depending on the variation or the setting of MP3/WMA writing applications or other text editing applications.
	Check if the finalization process, such as session close and disc close, is done for the disc.
Poor sound quality	Check if the CD is scratched or dirty.
It takes a relatively long time before the music starts playing.	If there are many folder or file levels on the MP3/WMA CD, or if it is a multisession disc, some time may be required before the music starts playing.
Music cuts off or skips	The writing software and hardware combination might not match, or the writing speed, writing depth, writing width might not match the specifications. Try using the slowest writing speed.
Skipping with high bit rate files	Skipping may occur with large quantities if data such as for high bit rate data.
Move immediately to the next song when playing	When a non-MP3/WMA file has been given an extension of ".MP3", ".WMA", ".mp3", or ".wma", or when play is prohibited by copyright protection, the player will skip to the next song.
The songs do not play back in the desired order.	The playback order is the order in which the files were written by the software, so the files might not play in the desired order.

Noise resulting from variations in field strength, such as fading noise and multi-path noise, or external noise from trains and other sources, is not a malfunction.

NOTE:

- Fading noise: This noise occurs because of variations in the field strength in a narrow range due to mountains or buildings blocking the signal.
- Multi-path noise: This noise results from a time difference between the broadcast waves directly from the station arriving at the antenna and the waves reflected by mountains or buildings.

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000001836878

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIRBAG" and "SEAT BELT" of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIRBAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Precaution for Trouble Diagnosis

INFOID:000000001837005

AV COMMUNICATION SYSTEM

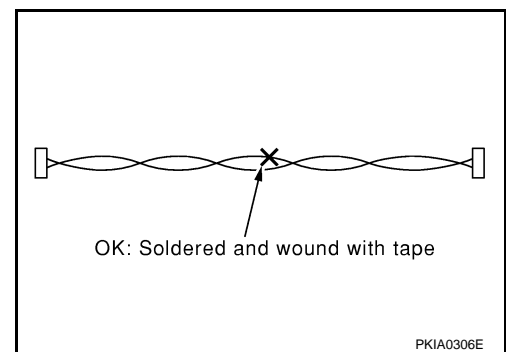
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

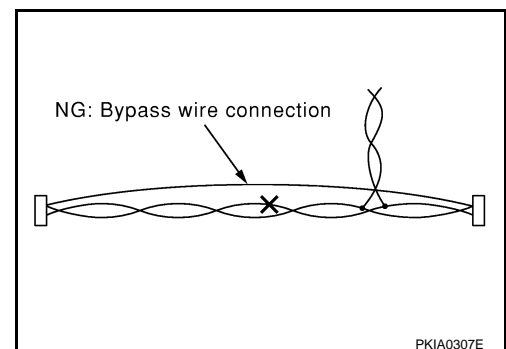
INFOID:000000001837009

AV COMMUNICATION SYSTEM

- Solder the repaired parts, and wrap with tape. [Frays of twisted line must be within 110 mm (4.33 in).]



- Do not perform bypass wire connections for the repair parts. (The spliced wire will become separated and the characteristics of twisted line will be lost.)



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AV

PREPARATION

< PREPARATION >

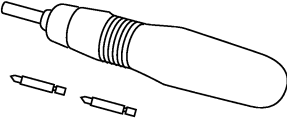
[BOSE AUDIO WITHOUT NAVIGATION]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000001836989

Tool name	Description
<p>Power tool</p>  <p>PBIC0191E</p>	<p>Loosening bolts and nuts</p>

AV CONTROL UNIT

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

ON-VEHICLE REPAIR

AV CONTROL UNIT

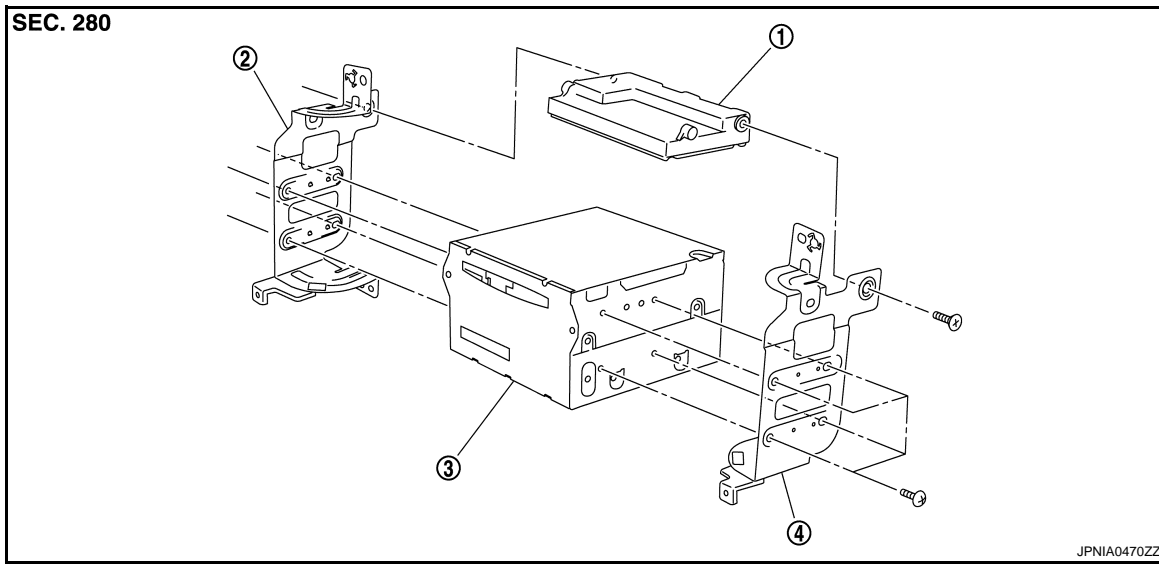
Exploded View

INFOID:000000001559346

REMOVAL

Refer to [JP-11](#), "Exploded View".

DISASSEMBLY



1. Unified meter and A/C amp.
2. Bracket LH
3. AV control unit
4. Bracket RH

Removal and Installation

INFOID:000000001559347

REMOVAL

1. Remove Display unit.
2. Remove AV control unit with a unified meter and A/C amp. as a single unit from the body.
3. Remove bracket screws, and then remove AV control unit.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Since AV control unit connector and unified meter and A/C amp. connector have the same form, be careful not to insert them wrongly.

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AV

DISPLAY UNIT

Exploded View

INFOID:000000001559313

Refer to [IP-11, "Exploded View"](#).

Removal and Installation

INFOID:000000001559314

REMOVAL

1. Remove cluster lid D. Refer to [IP-11, "Exploded View"](#).
2. Remove display unit with bracket as a single unit.

INSTALLATION

Install in the reverse order of removal.

DOOR SQUAWKER

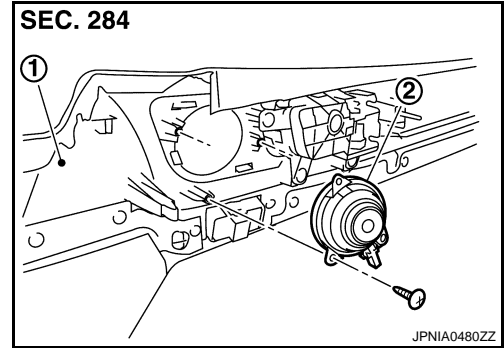
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

DOOR SQUAWKER

Exploded View

INFOID:000000001559315



1. Door finisher
2. Door squawker

Removal and Installation

INFOID:000000001559316

REMOVAL

1. Remove door finisher. Refer to [INT-11, "Exploded View"](#).
2. Remove door squawker from door finisher.

INSTALLATION

Install in the reverse order of removal.

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AV

DOOR WOOFER

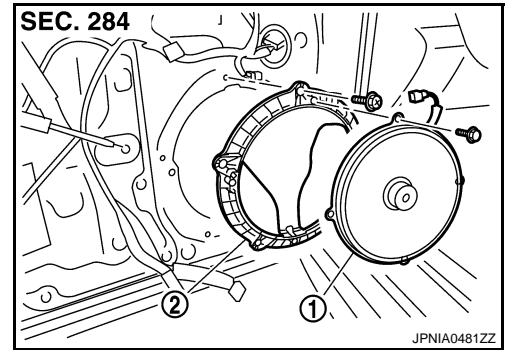
[BOSE AUDIO WITHOUT NAVIGATION]

< ON-VEHICLE REPAIR >

DOOR WOOFER

Exploded View

INFOID:000000001559317



1. Door woofer
2. Woofer bracket

Removal and Installation

INFOID:000000001559318

REMOVAL

1. Remove door finisher. Refer to [INT-11, "Exploded View"](#).
2. Remove door woofer from woofer bracket.

INSTALLATION

Install in the reverse order of removal.

REAR SPEAKER

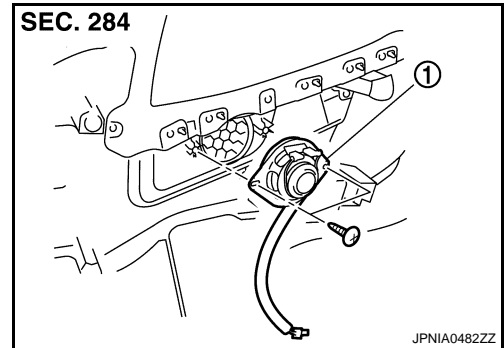
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

REAR SPEAKER

Exploded View

INFOID:000000001682907



1. Rear speaker

Removal and Installation

INFOID:000000001682908

REMOVAL

1. Remove rear side finisher. Refer to [INT-14. "Exploded View"](#).
2. Remove rear speaker from rear side finisher.

INSTALLATION

Install in the reverse order of removal.

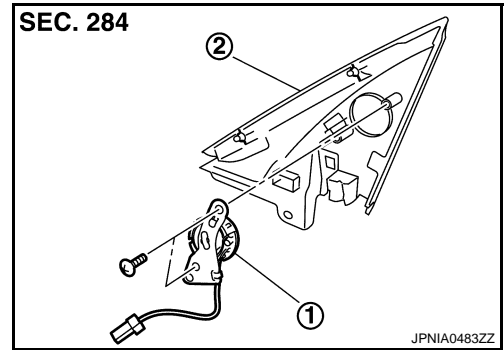
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AV

TWEETER

Exploded View

INFOID:000000001559325



1. Tweeter
2. Corner cover inner

Removal and Installation

INFOID:000000001559326

REMOVAL

1. Remove door finisher, and then remove corner cover inner. Refer to [INT-11. "Exploded View"](#).
2. Remove tweeter from corner cover inner.

INSTALLATION

Install in the reverse order of removal.

CENTER SPEAKER

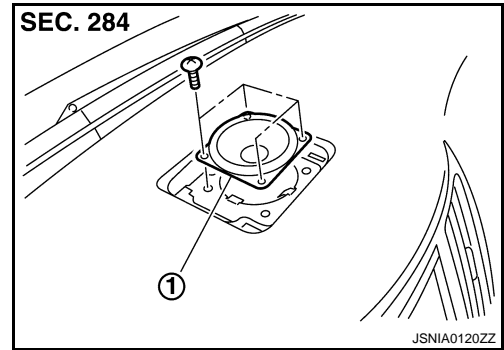
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

CENTER SPEAKER

Exploded View

INFOID:000000001559327



1. Center speaker

Removal and Installation

INFOID:000000001559328

REMOVAL

1. Remove upper grille, and then remove center speaker. Refer to [IP-11, "Exploded View"](#).

INSTALLATION

Install in the reverse order of removal.

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REAR WOOFER

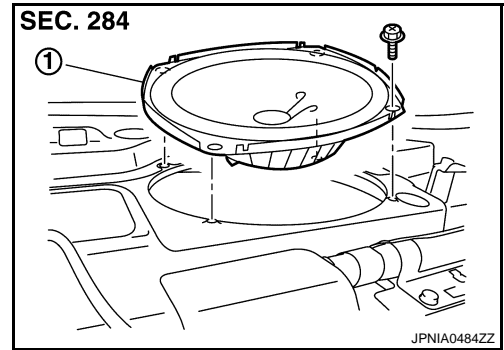
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

REAR WOOFER

Exploded View

INFOID:000000001559329



1. Rear woofer

Removal and Installation

INFOID:000000001559330

REMOVAL

1. Remove rear parcel shelf finisher. Refer to [INT-17, "Exploded View"](#).
2. Remove rear woofer from rear parcel shelf.

INSTALLATION

Install in the reverse order of removal.

BOSE AMP.

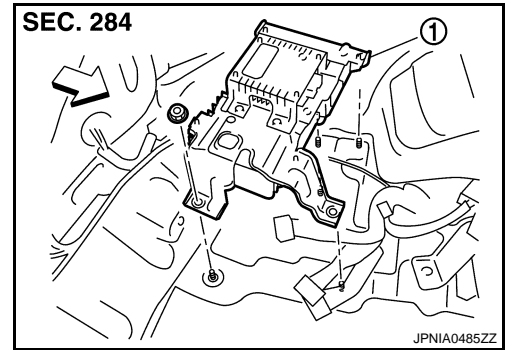
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

BOSE AMP.

Exploded View

INFOID:000000001559343



- ⇒: Vehicle front
1. BOSE amp.

Removal and Installation

INFOID:000000001559344

REMOVAL

1. Remove trunk floor spacer LH. Refer to [INT-27, "Exploded View"](#).
2. Remove BOSE amp. from trunk room LH.

INSTALLATION

Install in the reverse order of removal.

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WOOFER AMP.

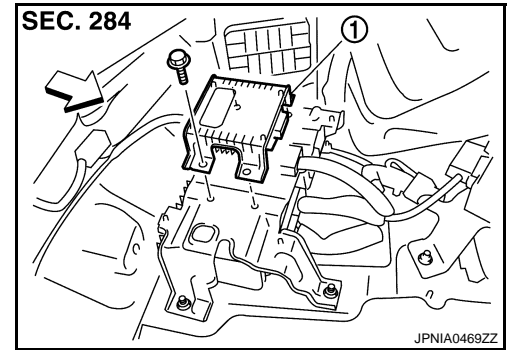
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

WOOFER AMP.

Exploded View

INFOID:000000001678972



⇨: Vehicle front

1. Woofer amp.

Removal and Installation

INFOID:000000001678973

REMOVAL

1. Remove trunk floor spacer LH. Refer to [INT-27. "Exploded View"](#).
2. Remove Woofer amp. from BOSE amp.

INSTALLATION

Install in the reverse order of removal.

ANTENNA AMP.

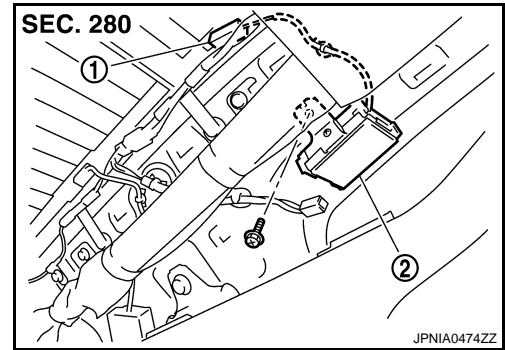
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

ANTENNA AMP.

Exploded View

INFOID:0000000001559353



1. AM-FM main connector
2. Antenna amp.

Removal and Installation

INFOID:0000000001559354

REMOVAL

1. Remove back pillar garnish LH. Refer to [INT-14. "Exploded View"](#).
2. Remove antenna amp. from rear pillar LH.

INSTALLATION

Install in the reverse order of removal.

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SATELLITE RADIO TUNER

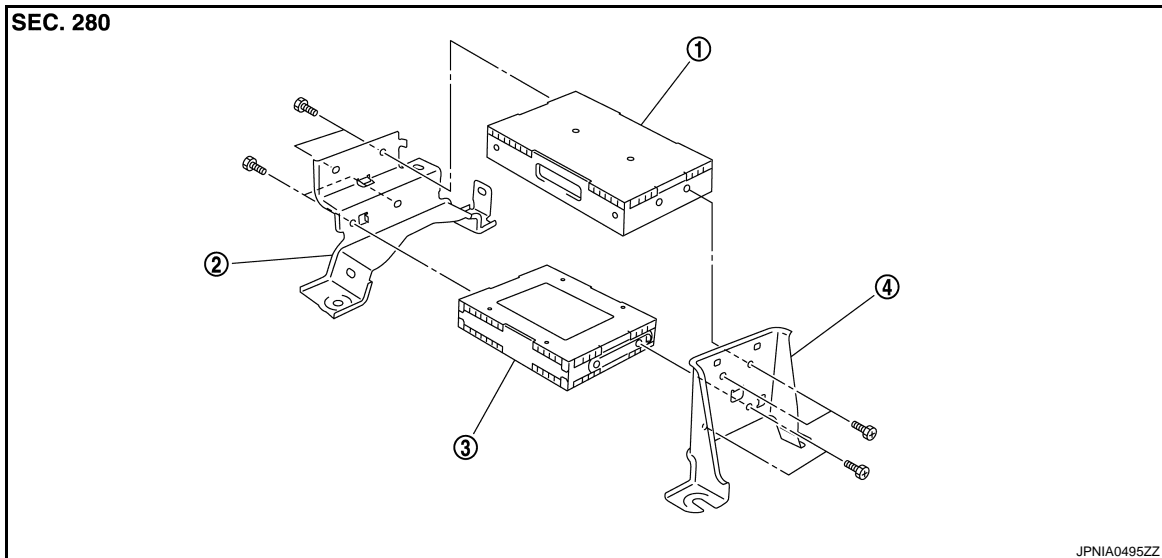
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

SATELLITE RADIO TUNER

Exploded View

INFOID:000000001559207



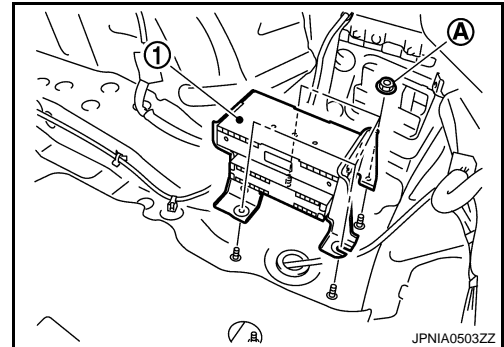
1. TEL adapter unit
2. Bracket (front)
3. Satellite radio tuner
4. Bracket (rear)

Removal and Installation

INFOID:000000001559208

REMOVAL

1. Remove trunk floor spacer RH. Refer to [INT-27, "Exploded View"](#).
2. Remove nuts (A) from the trunk room RH, and remove TEL adapter unit and satellite radio tuner (1) from trunk room side.



INSTALLATION

Install in the reverse order of removal.

SATELLITE RADIO ANTENNA

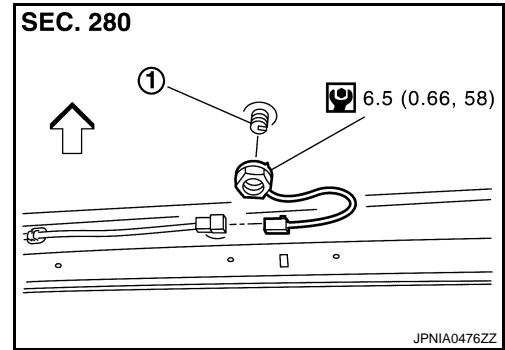
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

SATELLITE RADIO ANTENNA

Exploded View

INFOID:000000001605600



⇨: Vehicle front

1. Satellite radio antenna

Removal and Installation

INFOID:000000001605601

REMOVAL

1. Remove headlining assembly (rear) to secure work space between vehicle and headlining. Refer to [INT-21, "NORMAL ROOF : Exploded View"](#) [with normal roof] [INT-24, "SUNROOF : Exploded View"](#) [with sun-roof].
2. Remove nuts, and then remove satellite radio antenna from roof panel.

INSTALLATION

Install in the reverse order of removal.

Roof antenna mounting nut  : 6.5 N·m (0.66 kg·m, 58 in·lb)

CAUTION:

Be careful about tightening torque. Antenna sensitivity becomes poor, and when it is excessive, roof panel may be deformed, when roof antenna mounting nut tightening torque is loose.

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AV

MULTIFUNCTION SWITCH

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

MULTIFUNCTION SWITCH

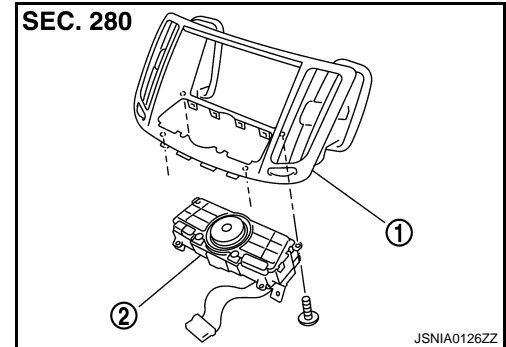
Exploded View

INFOID:000000001559359

REMOVAL

Refer to [IP-11, "Exploded View"](#).

DISASSEMBLY



1. Center ventilator grille
2. Multifunction switch

Removal and Installation

INFOID:000000001559360

REMOVAL

1. Remove cluster lid D. Refer to [IP-11, "Exploded View"](#).
2. Remove multifunction switch with center ventilator grille as a single unit.
3. Remove multifunction switch from center ventilator.

INSTALLATION

Install in the reverse order of removal.

PRESET SWITCH

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

PRESET SWITCH

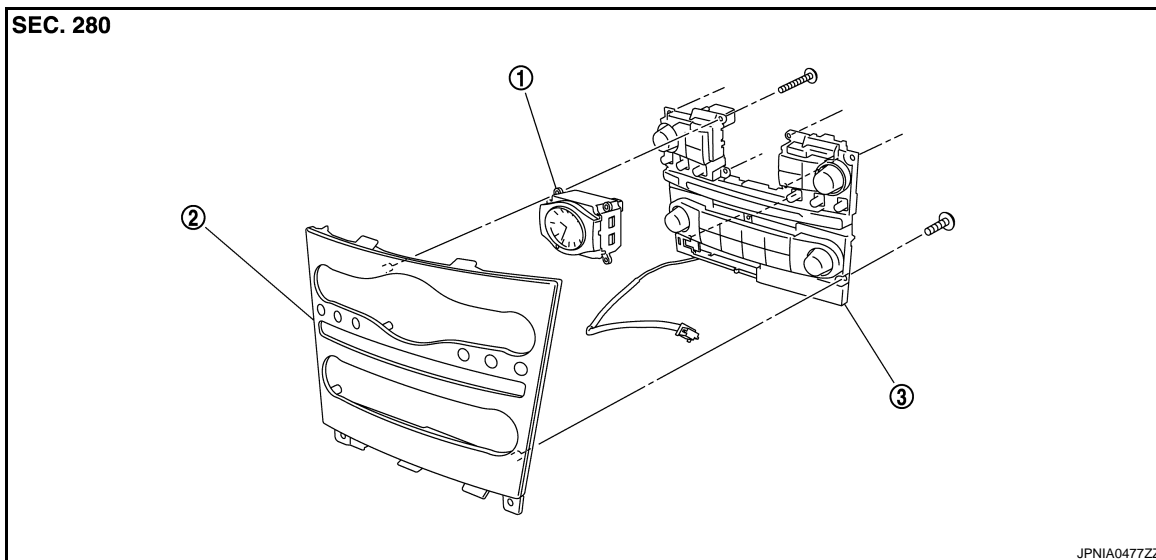
Exploded View

INFOID:000000001559361

REMOVAL

Refer to [IP-11, "Exploded View"](#).

DISASSEMBLY



1. Clock

2. Cluster lid C

3. Preset switch

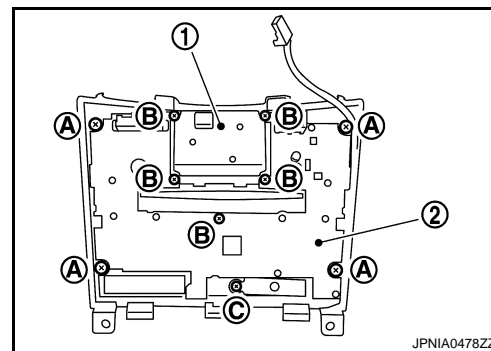
Removal and Installation

INFOID:000000001559362

REMOVAL

1. Remove cluster lid C. Refer to [IP-11, "Exploded View"](#).
2. Remove preset switch (2) from cluster lid C.

- 1. Clock
- A. Screw
- B. Screw
- C. Screw



INSTALLATION

Install in the reverse order of removal.

NOTE:

When installing preset switch, do not allow the print wire that connects preset switch and multifunction switch to get caught in between AV control unit and preset switch.

STEERING SWITCH

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

STEERING SWITCH

Exploded View

INFOID:000000001559363

Refer to [ST-15. "Exploded View"](#).

Removal and Installation

INFOID:000000001559364

REMOVAL

Refer to [ST-15. "Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

IPOD ADAPTER

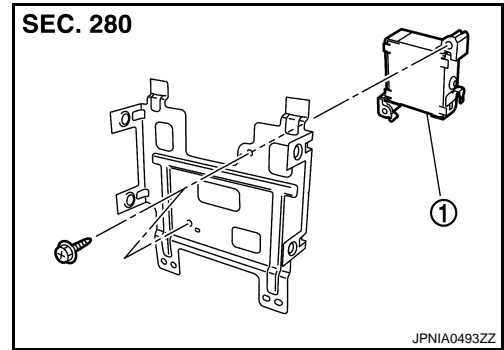
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

IPOD ADAPTER

Exploded View

INFOID:000000001678970



1. iPod adapter

Removal and Installation

INFOID:000000001678971

REMOVAL

1. Remove display assy. Refer to [AV-344, "Removal and Installation"](#).
2. Remove display from display bracket.
3. Remove iPod adapter from display bracket.

INSTALLATION

Install in the reverse order of removal.

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AV

IPOD CONNECTOR

[BOSE AUDIO WITHOUT NAVIGATION]

< ON-VEHICLE REPAIR >

IPOD CONNECTOR

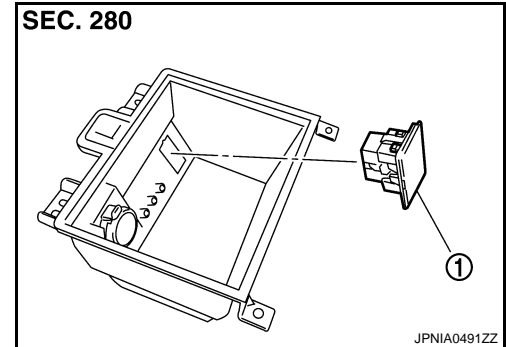
Exploded View

INFOID:000000001770480

REMOVAL

Refer to [IP-23, "Exploded View"](#).

DISASSEMBLY



1. iPod connector

Removal and Installation

INFOID:000000001770481

REMOVAL

1. Remove center console. (M/T models) Refer to [IP-23, "Exploded View"](#).
Remove center console. (A/T models) Refer to [IP-23, "Exploded View"](#).
2. Push the pawl from the back of center console to remove iPod connector.

INSTALLATION

Install in the reverse order of removal.

AUXILIARY INPUT JACKS

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

AUXILIARY INPUT JACKS

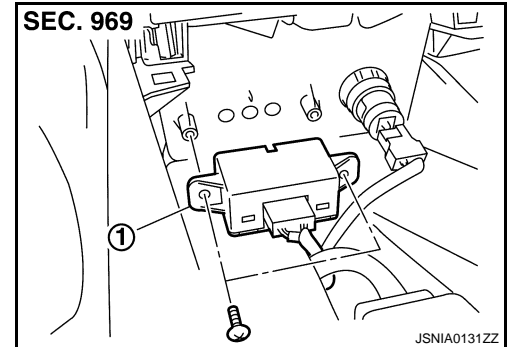
Exploded View

INFOID:000000001559368

REMOVAL

Refer to [IP-23, "Exploded View"](#).

DISASSEMBLY



1. Auxiliary input jacks

Removal and Installation

INFOID:000000001559369

REMOVAL

1. Remove center console. (M/T models) Refer to [IP-23, "Exploded View"](#).
Remove center console cup. (A/T models) Refer to [IP-23, "Exploded View"](#).
2. Remove auxiliary input jacks from center console. (M/T models)
Remove auxiliary input jacks from center console cup. (A/T models)

INSTALLATION

Install in the reverse order of removal.

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AV

MICROPHONE

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

MICROPHONE

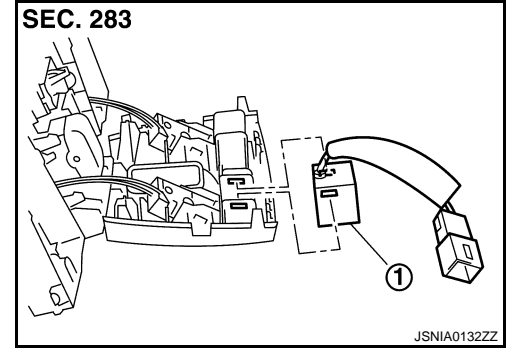
Exploded View

INFOID:000000001559370

REMOVAL

Refer to [INL-97, "Exploded View"](#).

DISASSEMBLY



1. Microphone

Removal and Installation

INFOID:000000001559371

REMOVAL

1. Remove map lamp. Refer to [INL-97, "Exploded View"](#).
2. Remove microphone from map lamp.

INSTALLATION

Install in the reverse order of removal.

TEL ADAPTER UNIT

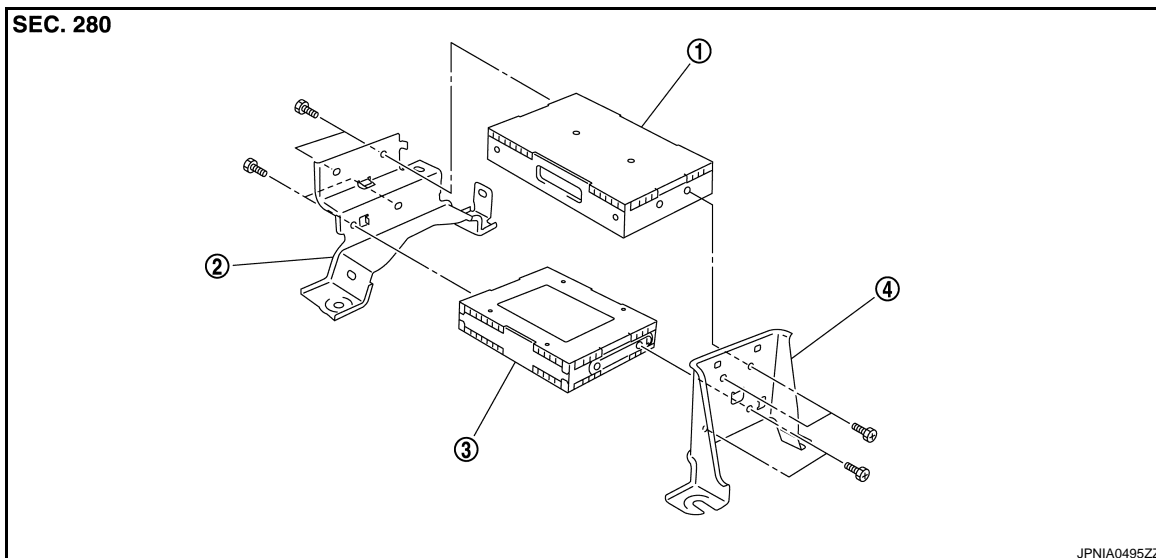
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

TEL ADAPTER UNIT

Exploded View

INFOID:000000001559112



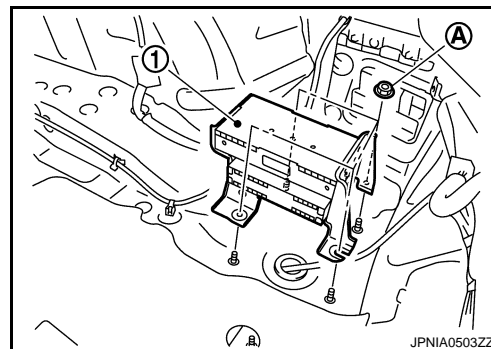
- 1. TEL adapter unit
- 2. Bracket (front)
- 3. Satellite radio tuner
- 4. Bracket (rear)

Removal and Installation

INFOID:000000001559113

REMOVAL

1. Remove trunk floor spacer RH. Refer to [INT-27, "Exploded View"](#).
2. Remove nuts (A) from the trunk room RH, and remove TEL adapter unit and satellite radio tuner (1) from trunk room side.



INSTALLATION

Install in the reverse order of removal.

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ANTENNA FEEDER (RADIO)

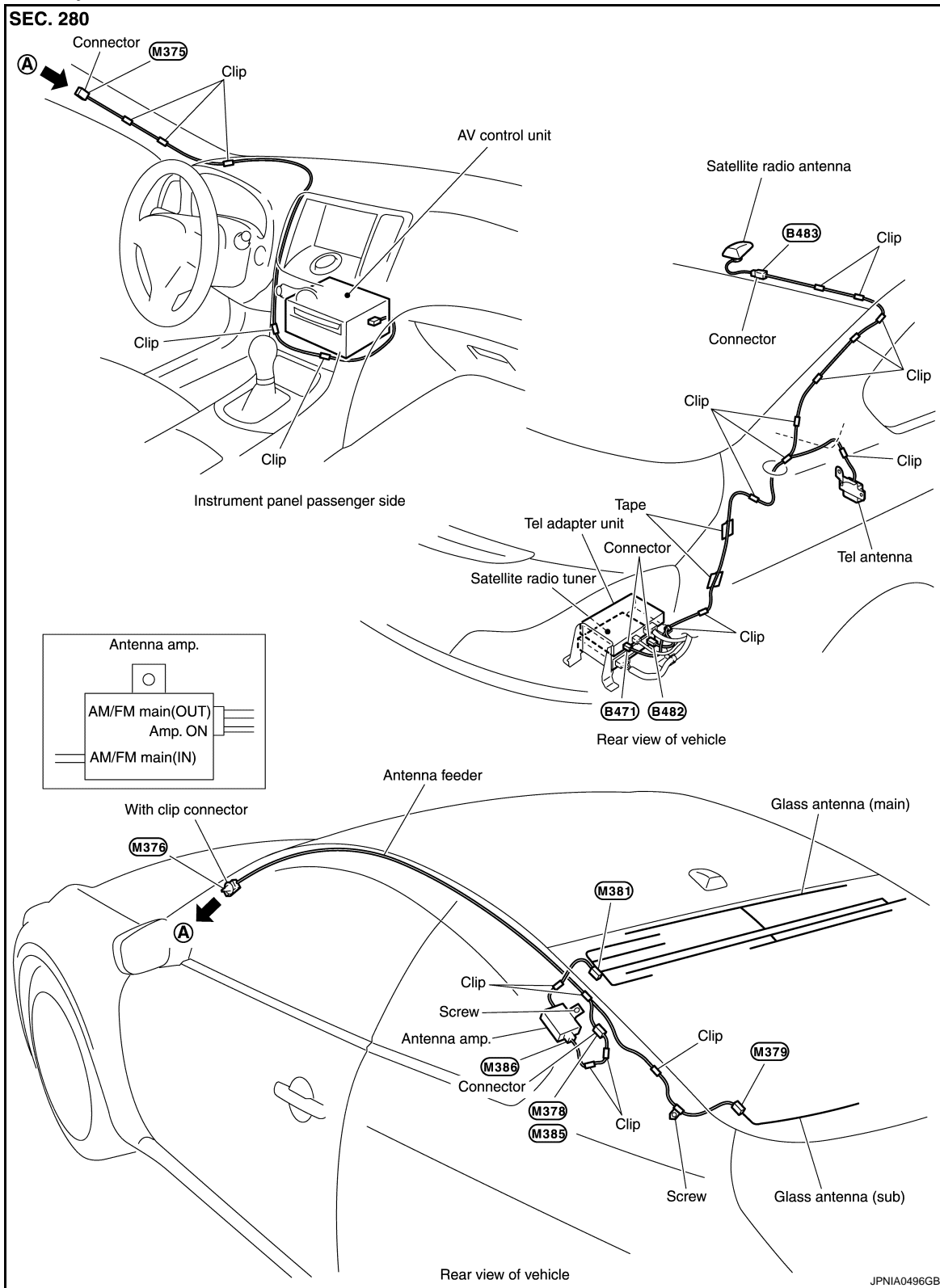
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

ANTENNA FEEDER (RADIO)

Harness Layout

INFOID:0000000015592.19



ANTENNA FEEDER (SATELLITE RADIO)

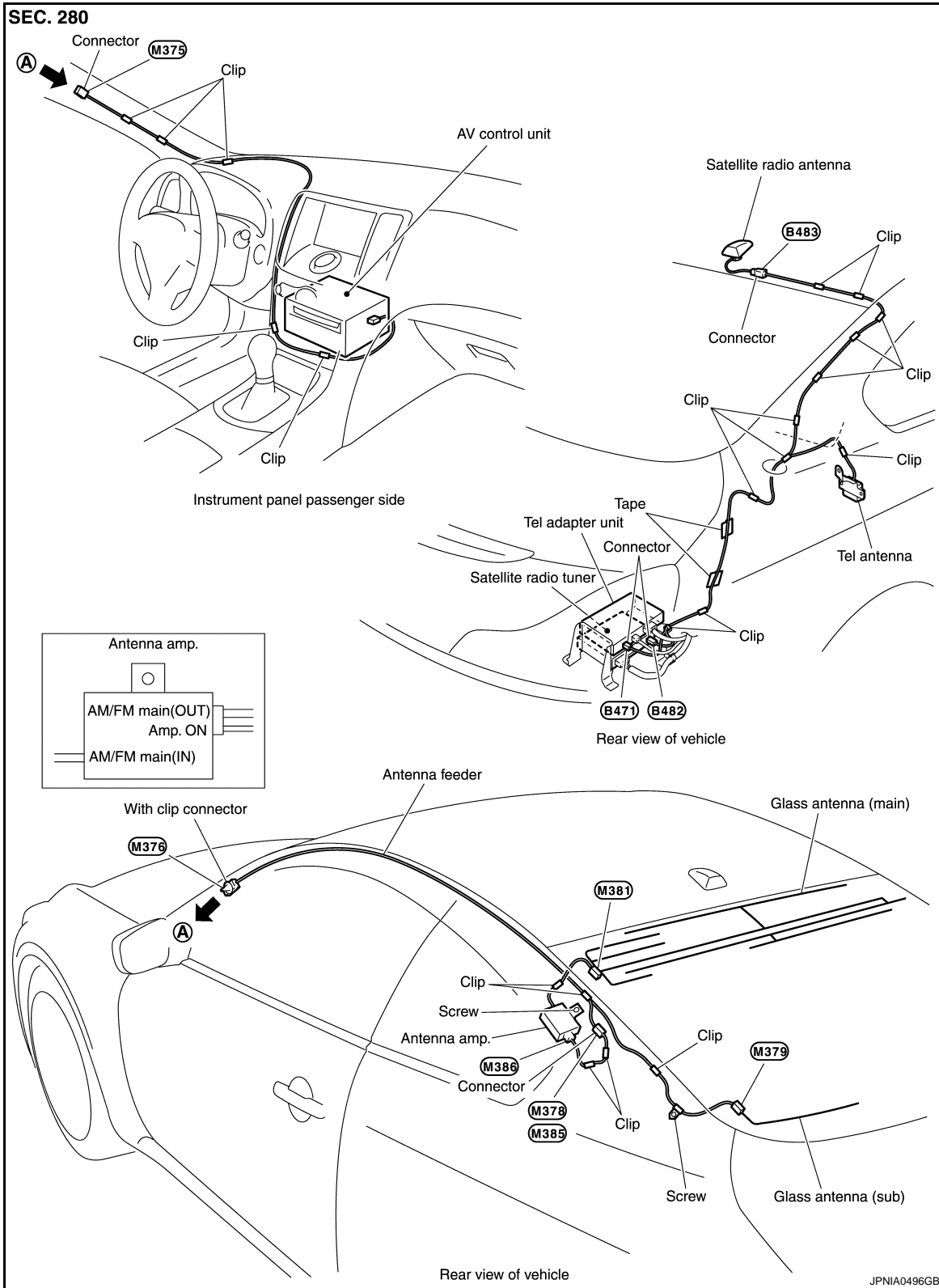
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITHOUT NAVIGATION]

ANTENNA FEEDER (SATELLITE RADIO)

Harness Layout

INFOID:000000001684397



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ANTENNA FEEDER (TEL)

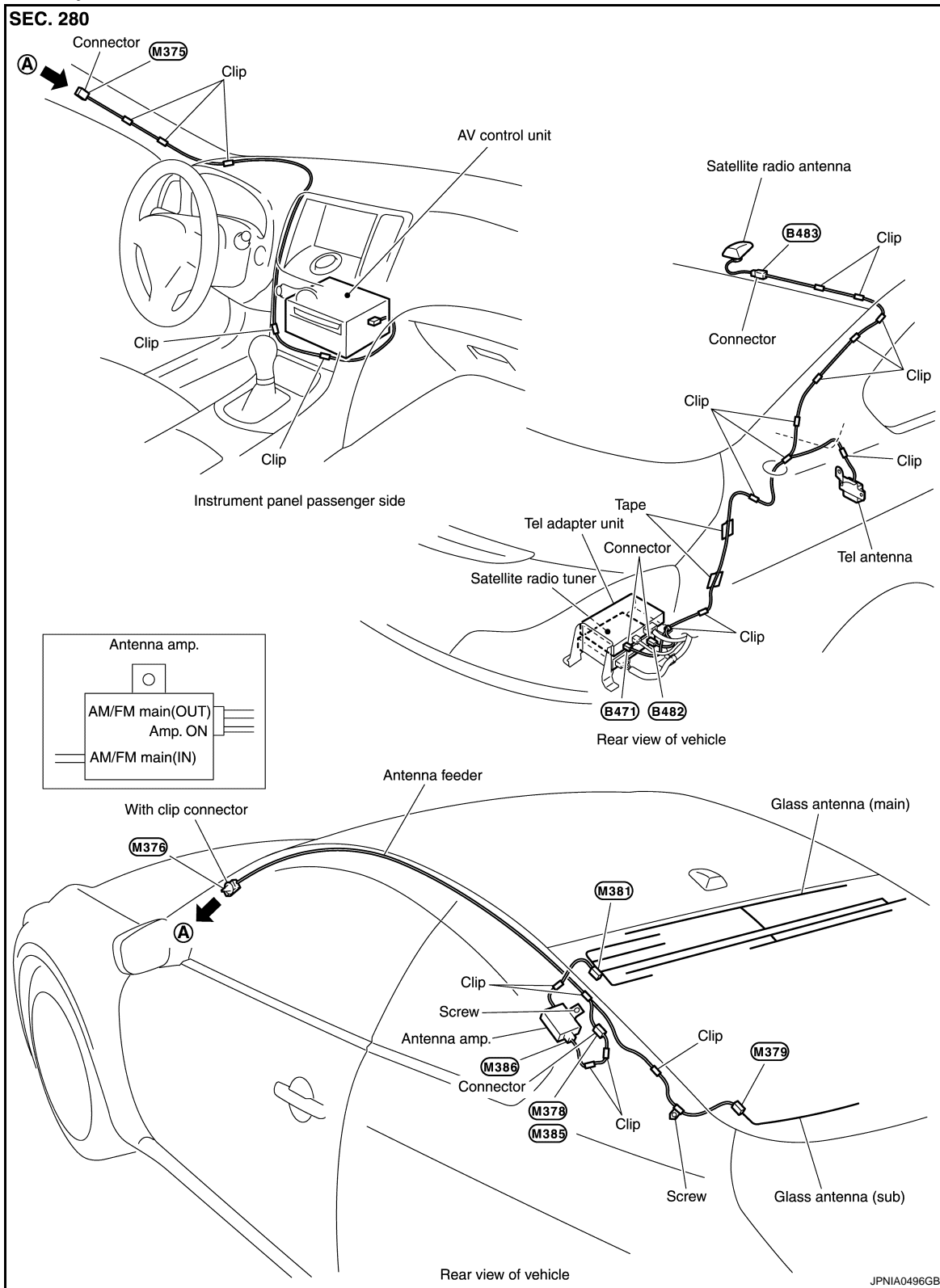
[BOSE AUDIO WITHOUT NAVIGATION]

< ON-VEHICLE REPAIR >

ANTENNA FEEDER (TEL)

Harness Layout

INFOID:000000001684396



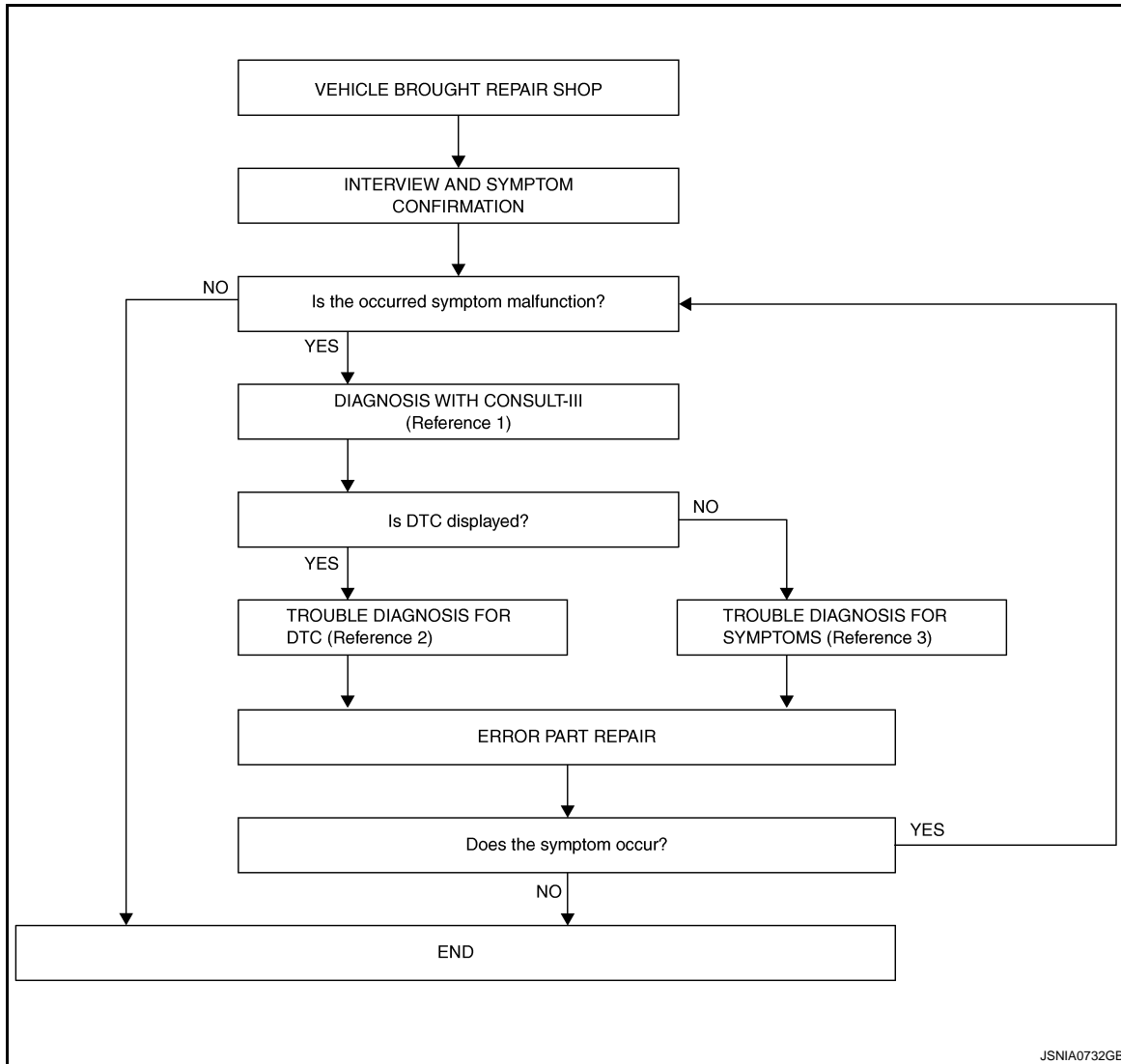
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000001558761

OVERALL SEQUENCE



- Reference 1... Refer to [AV-403. "CONSULT - III Function \(MULTI AV\)".](#)
- Reference 2... Refer to [AV-488. "DTC Index".](#)
- Reference 3... Refer to [AV-596. "Symptom Table".](#)

DETAILED FLOW

1. INTERVIEW AND SYMPTOM CONFIRMATION

Check the malfunction symptoms by performing the following items.

- Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred).
- Check the symptom.

Is the occurred symptom malfunction?

YES >> GO TO 2.

NO >> INSPECTION END

2. DIAGNOSIS WITH CONSULT-III

DIAGNOSIS AND REPAIR WORK FLOW

[BOSE AUDIO WITH NAVIGATION]

< BASIC INSPECTION >

1. Connect CONSULT-III and perform a self-diagnosis for "MULTI AV". Refer to [AV-403. "CONSULT - III Function \(MULTI AV\)".](#)

NOTE:

Skip to step 4 of the diagnosis procedure if "MULTI AV" is not displayed.

2. Check if any DTC is displayed in the self-diagnosis results.

Is DTC displayed?

YES >> GO TO 3.

NO >> GO TO 4.

3. TROUBLE DIAGNOSIS FOR DTC

1. Check the DTC indicated in the self-diagnosis results.
2. Perform the relevant diagnosis referring to the DTC Index. Refer to [AV-488. "DTC Index".](#)

>> GO TO 5.

4. TROUBLE DIAGNOSIS FOR SYMPTOMS

Perform the relevant diagnosis referring to the diagnosis chart by symptom. Refer to [AV-596. "Symptom Table".](#)

>> GO TO 5.

5. ERROR PART REPAIR

1. Repair or replace the identified malfunctioning parts.
2. Perform a self-diagnosis for "MULTI AV" with CONSULT-III.

NOTE:

Erase the stored self-diagnosis results after repairing or replacing the relevant components if any DTC has been indicated in the self-diagnosis results.

3. Check that the symptom does not occur.

Does the symptom occur?

YES >> GO TO 1.

NO >> INSPECTION END

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[BOSE AUDIO WITH NAVIGATION]

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:000000001558762

Always correct the center position of the rear view monitor's possible route line after disconnecting the battery negative terminal.

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:000000001558763

1. CORRECTION OF CENTER POSITION OF REAR VIEW MONITOR'S POSSIBLE ROUTE LINE

Refer to the following for details.

>> Refer to [AV-369, "REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement"](#).

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000001558764

When camera control unit is replaced, the center position of rear view monitor possible route line is corrected.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:000000001558765

1. CORRECTION OF CENTER POSITION OF REAR VIEW MONITOR'S POSSIBLE ROUTE LINE

Refer to the following for details.

>> Refer to [AV-369, "REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement"](#).

REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUSTMENT

REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUSTMENT : Description

INFOID:000000001558766

Adjust the center position of the possible route line of the rear view monitor if it is shifted.

REAR VIEW MONITOR POSSIBLE ROUTE LINE CENTER POSITION ADJUSTMENT : Special Repair Requirement

INFOID:000000001558767

1. STEERING OPERATION

Steer the steering wheel to the leftmost and rightmost ends.

>> GO TO 2

2. DRIVING

Drive the vehicle straight ahead 100 m (328.1 ft) or more at a speed of 30 km/h (18.6 MPH) or more.

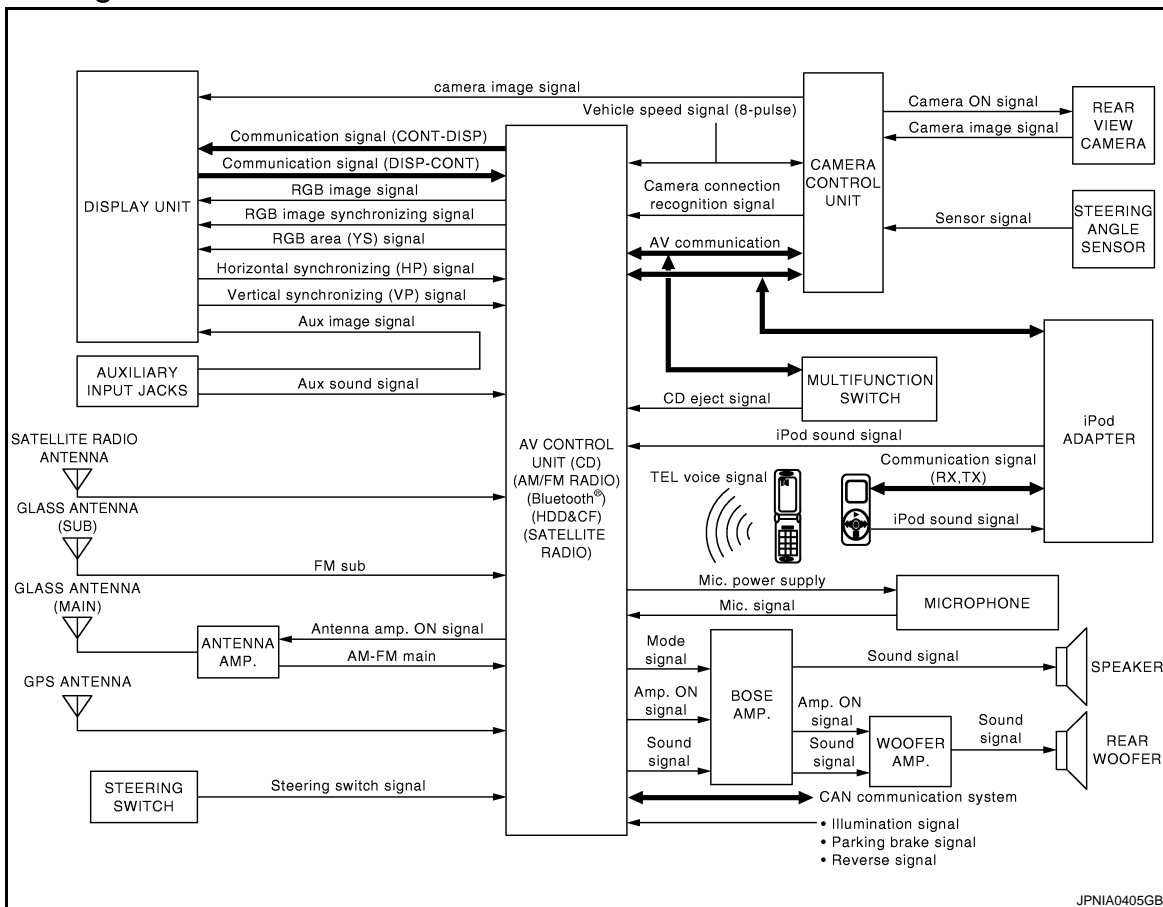
>> END

FUNCTION DIAGNOSIS

MULTI AV SYSTEM

System Diagram

INFOID:000000001558770



JPNIA0405GB

NOTE:

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

System Description

INFOID:000000001558771

Multi AV system ANTENNA means that the following systems are integrated.

System name	System explanation
NAVIGATION SYSTEM	AV-376. "System Description"
AUDIO SYSTEM	AV-384. "System Description"
REAR VIEW MONITOR SYSTEM	AV-381. "System Description"
VEHICLE INFORMATION SYSTEM	<ul style="list-style-type: none"> Status of audio, climate control system, fuel economy, maintenance and navigation is displayed. AV control unit displays the fuel consumption status while receiving data signal through CAN communication from ECM, unified meter and A/C amp. and BCM.
HANDS-FREE PHONE SYSTEM	Refer to the following "HANDS-FREE PHONE SYSTEM".
AUXILIARY INPUT SYSTEM	Refer to the following "AUXILIARY INPUT SYSTEM".
VOICE RECOGNITION SYSTEM	Refer to the following "VOICE RECOGNITION SYSTEM".
TOUCH PANEL SYSTEM	Refer to the following "TOUCH PANEL SYSTEM".

- AV control unit function by transmitting/receiving data one by one with each unit (slave unit) that configures them completely as a master unit by connecting between units that configure MULTI AV system with two AV communication lines (H, L).

MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

- Two AV communication lines (H, L) adopt a twisted pair line that is resistant to noise.
- AV control unit is connected by CAN communication, and it receives data signal from ECM, unified meter and A/C amp. It computes and displays fuel economy information value with the obtained information. Transmitting/receiving of data signal is performed by BCM. Also, it transmits the required signal of vehicle setting and receives the response signal.
- AV control unit is connected with display and serial communication, and it transmits the required signal of display and display control and receives the response signal from display. Also, it is connected with satellite radio by serial communication, and it transmits the operating signal and receives the display signal.

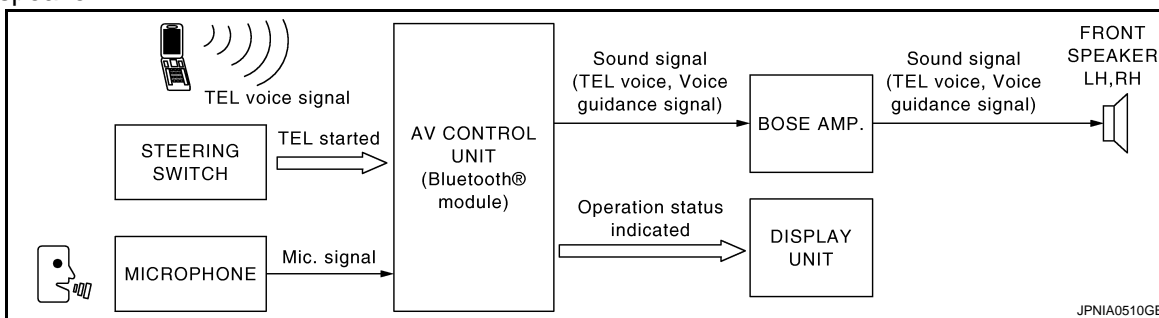
NOTE:

AV control unit can perform CONSULT-III self-operating function and on board self-diagnosis.

- CONSULT-III self diagnosis: Refer to [AV-403, "CONSULT - III Function \(MULTI AV\)"](#).
- On board self diagnosis: Refer to [AV-388, "Diagnosis Description"](#).

HANDS-FREE PHONE SYSTEM

- Hands-free communication can be operated by connecting using Bluetooth® with cellular phone.
- Operation is performed by steering switch, and operating condition is indicated on display.
- Guide sound that is heard during operation is input from AV control unit to BOSE amp., and is output from door speaker.



When a call is originated

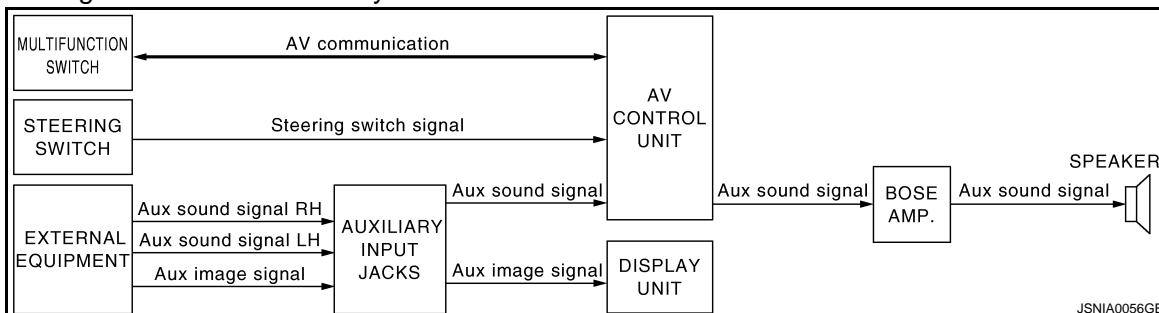
Spoken voice sound output from the microphone (Mic. Signal) is input to AV control unit. AV control unit outputs to cellular phone with Bluetooth communication as a TEL voice signal. Voice sound is then heard at the other party.

When receiving a call

Voice sound is input to own cellular phone from the other party. TEL voice signal is output to door speaker, and the signal is input to BOSE amp. via AV control unit by establishing Bluetooth communication from cellular phone.

AUXILIARY INPUT SYSTEM

- Image and sound can be output from an external device by connecting a device with auxiliary input jacks.
- Operation can be performed with multifunction switch and steering switch. Multifunction switch transmits operation signal to AV control unit by AV communication.



VOICE RECOGNITION SYSTEM

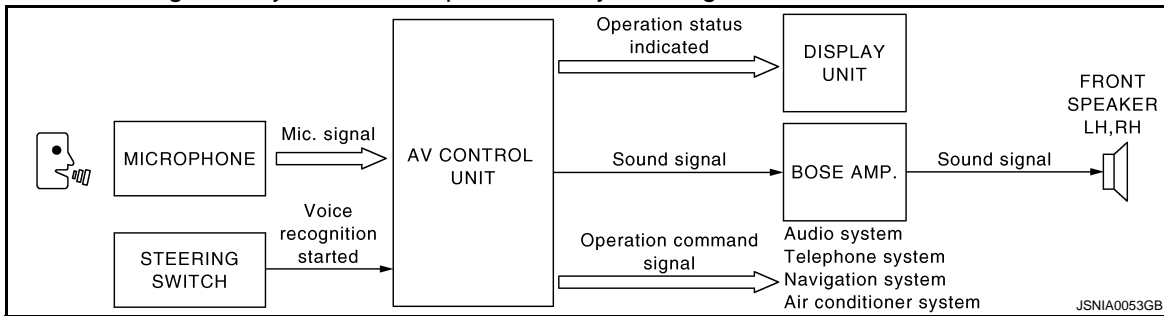
- Each operation of multi AV system can be performed by inputting sound to microphone.

MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

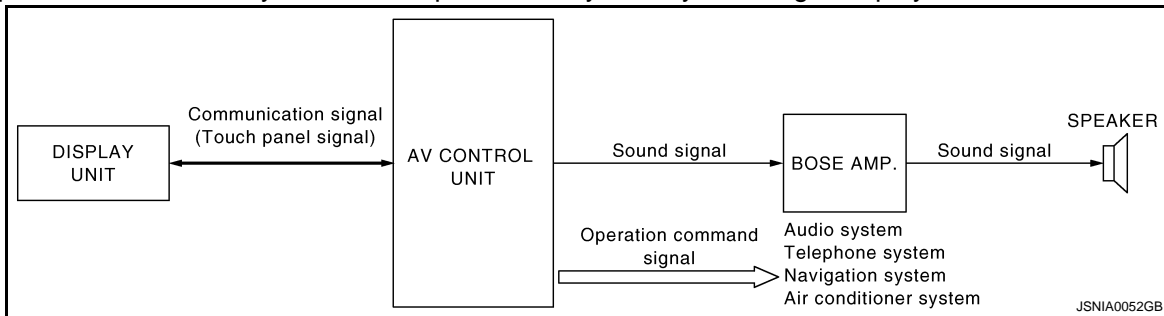
[BOSE AUDIO WITH NAVIGATION]

- Start of sound recognition system can be performed by steering switch.



TOUCH PANEL SYSTEM

Each operation of multi AV system can be performed by directly touching a display.



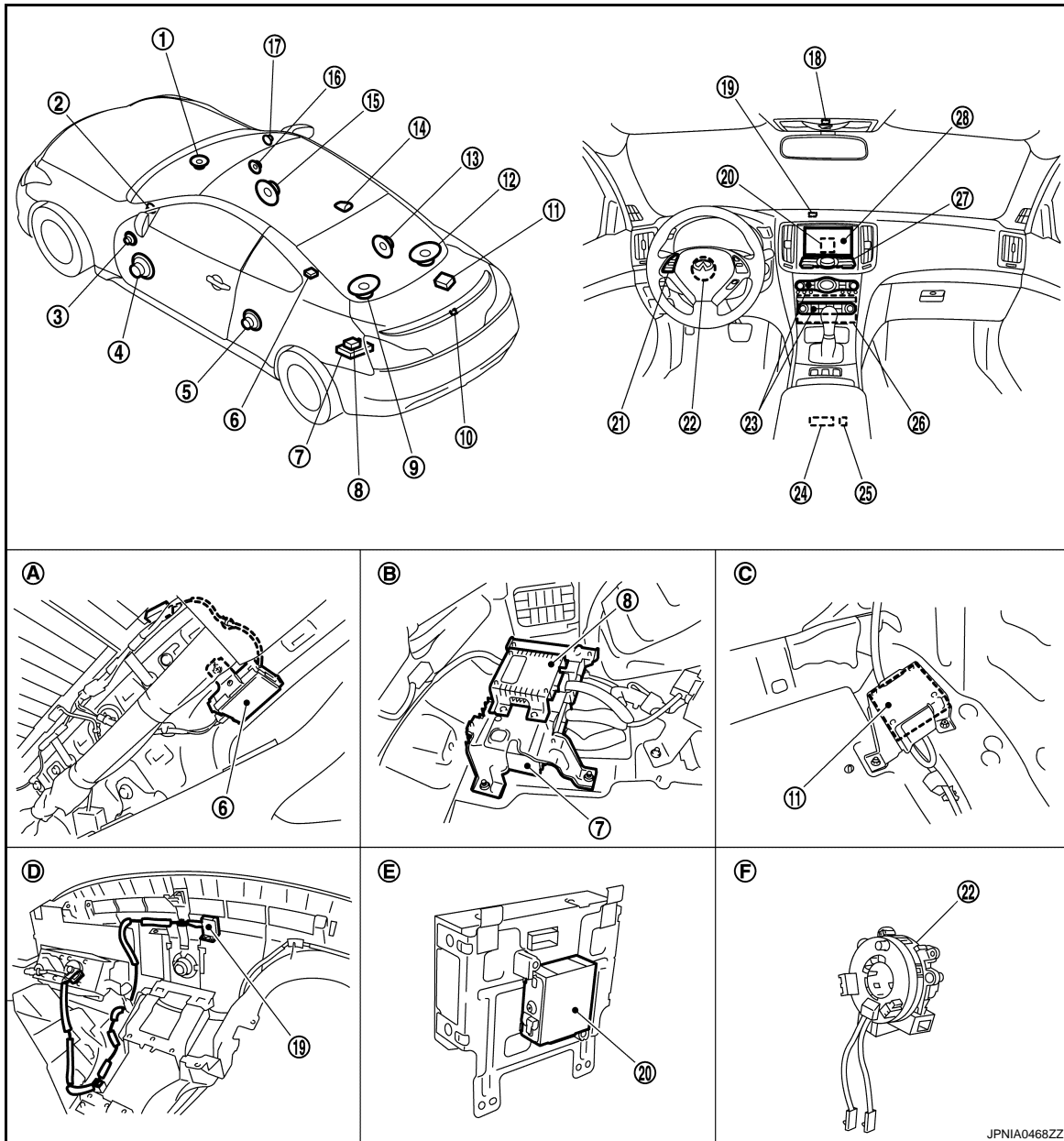
MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Component Parts Location

INFOID:000000001558772



- | | | |
|-----------------------------------|-----------------------------|---------------------------|
| 1. Center speaker | 2. Tweeter LH | 3. Door squawker LH |
| 4. Door woofer LH | 5. Rear speaker LH | 6. Antenna amp. |
| 7. BOSE amp. | 8. Woofer amp. | 9. Rear woofer LH |
| 10. Rear view camera | 11. Camera control unit | 12. Rear woofer RH |
| 13. Rear speaker RH | 14. Satellite radio antenna | 15. Door woofer RH |
| 16. Door squawker RH | 17. Tweeter RH | 18. Microphone |
| 19. GPS antenna | 20. iPod adapter | 21. Steering switch |
| 22. Steering angle sensor | 23. Preset switch | 24. Auxiliary input jacks |
| 25. iPod connector | 26. AV control unit | 27. Multifunction switch |
| 28. Display unit | | |
| A. Within rear pillar finisher LH | B. Trunk room LH | C. Trunk room RH |
| D. Instrument panel rear side | E. Rear view of the display | F. Spiral cable part |

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MULTI AV SYSTEM

[BOSE AUDIO WITH NAVIGATION]

< FUNCTION DIAGNOSIS >

Component Description

INFOID:000000001558773

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> Integrates hard disk drive (HDD) allowing map data and music data to be stored. It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit. The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio, and vehicle information functions. It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function. It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function. It inputs the illumination signals that are required for the display dimming control. It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake). Update of map data is performed with the CONSULT-III and the applicable cable.
DISPLAY UNIT	<ul style="list-style-type: none"> Display image is controlled by the serial communication from AV control unit. RGB image signal is input from AV control unit (RGB, RGB area and RGB synchronizing). Auxiliary image signal is input from the auxiliary input jack. Camera image signal is input from camera control unit. Synchronize signal (HP, VP) is output to AV control unit. Touch panel function can be operated for each system by touching a display directly.
BOSE AMP.	Inputs power (amp ON) and sound signal from AV control unit, and outputs sound signal to woofer amp. and each speaker.
WOOFER AMP.	Inputs power (amp ON) and sound signal from BOSE amp., and outputs sound signal to each woofer.
DOOR WOOFER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs low-pitched sound.
DOOR SQUAWKER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs midrange sound.
REAR SPEAKER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs high, mid and low range sounds.
TWEETER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs high range sound.
CENTER SPEAKER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs high, mid and low range sounds.
REAR WOOFER	<ul style="list-style-type: none"> Outputs sound signal from woofer amp. Outputs low-pitched sound.
MULTIFUNCTION SWITCH	<ul style="list-style-type: none"> Operation panel is equipped with the centralized switch where audio, auxiliary input and navigation operations are integrated. Connected with preset switch via cable, and operation signal is transmitted to AV control unit via AV communication.
PRESET SWITCH	<ul style="list-style-type: none"> Operation panel is equipped with the centralized switch where audio and air conditioner operations are integrated. Connected with multifunction switch via cable, and operation signal is transmitted to AV control unit via AV communication. The CD ejection operating signal is performed by hardwire.
CAMERA CONTROL UNIT	<ul style="list-style-type: none"> Camera image signal is input from rear view camera. Camera image signal output to display. Power (camera ON signal) is transmitted to rear view camera. Controlled by AV communication transmitted from AV control unit. AV control unit recognizes the presence of camera system with camera connection recognition signal.
REAR VIEW CAMERA	The image of vehicle rear view is transmitted to camera control unit.

MULTI AV SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

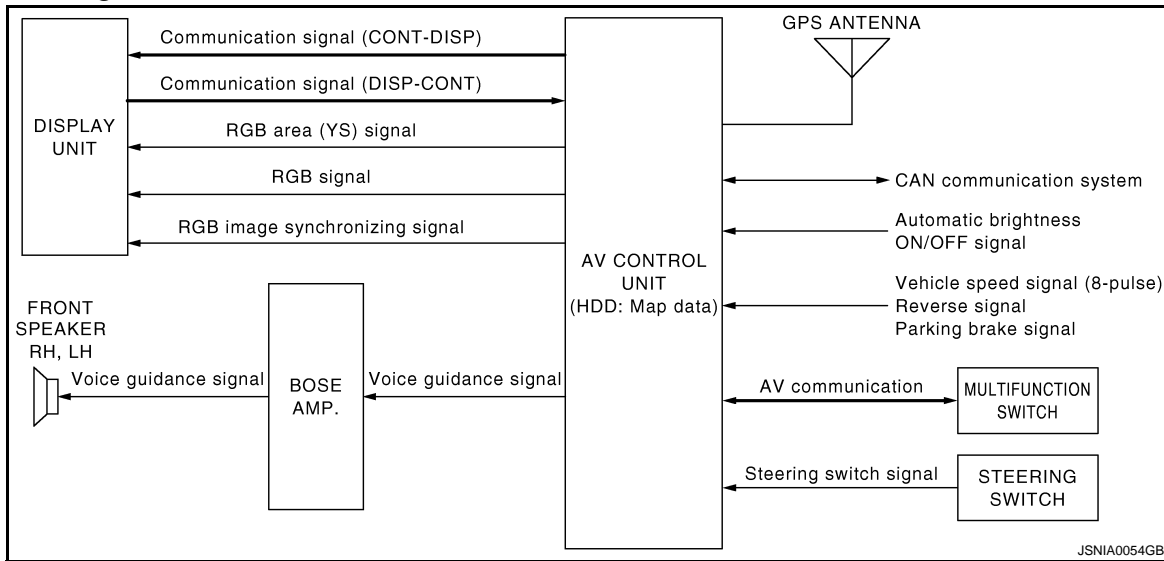
Part name	Description
STEERING SWITCH	<ul style="list-style-type: none"> Operations for audio, hands-free phone, audio response and navigation, etc. are possible. Steering switch signal (operation signal) is output to AV control unit.
STEERING ANGLE SENSOR	Sensor signal (steering angle) is transmitted to camera control unit.
MICROPHONE	<ul style="list-style-type: none"> Used for hands-free phone operation and voice recognition. Mic signal is transmitted to AV control unit. Power (Mic VCC) is supplied from AV control unit.
AUXILIARY INPUT JACKS	Image signal of auxiliary input is transmitted to display, and sound signal is transmitted to AV control unit.
GPS ANTENNA	GPS signal is received and transmitted to AV control unit.
ANTENNA AMP.	<ul style="list-style-type: none"> Radio signal received by glass antenna is amplified and transmitted to AV control unit. Power (antenna amp ON signal) is supplied from AV control unit.
SATELLITE RADIO ANTENNA	Satellite radio signal is received and transmitted to AV control unit.
iPod ADAPTER	<ul style="list-style-type: none"> Inputs iPod sound signal from iPod[®], and outputs iPod sound signal to AV control unit. Receiving/transmitting of iPod[®] operation signals are performed as follows: <ul style="list-style-type: none"> - between AV control unit and iPod adapter: AV communication. - between iPod[®] and iPod adapter: serial communication.

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AV

NAVIGATION SYSTEM

System Diagram



System Description

INFOID:000000001558775

DESCRIPTION

- The AV control unit controls navigation function while GPS tuner has built-in map data, GYRO (angle speed sensor), on the HDD (Hard Disk Drive).
- The AV control unit inputs operation signal with communication signal, through display (touch panel) and multifunction switch and steering switch.
- Guide sound is output to front speaker through BOSE amp. from AV control unit when operating navigation system.
- A vehicle position is calculated with the GYRO (angle speed sensor), vehicle sensor, signal from GPS satellite and map data stored on HDD (Hard Disk Drive), and transmits the map image signal (RGB image, RGB area, RGB image synchronizing) to the display.

POSITION DETECTION PRINCIPLE

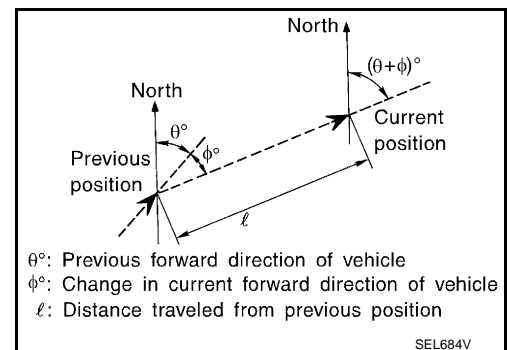
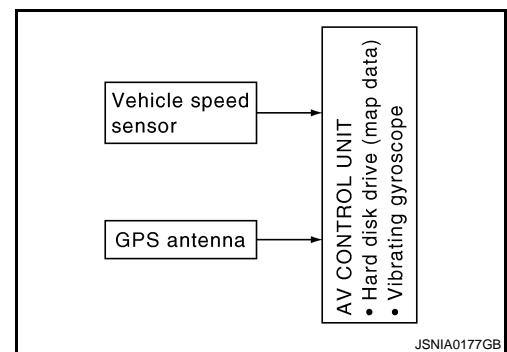
The navigation system periodically calculates the current vehicle position according to the following three types of signals.

- Travel distance of the vehicle as determined by the vehicle speed sensor
- Vehicle turning angle determined by the gyroscope (angular speed sensor)
- The travel direction of the vehicle determined by the GPS antenna (GPS information)

The current position of the vehicle is then identified by comparing the calculated vehicle position with map data, which is stored in the HDD (Hard Disk Drive) (map-matching), and indicated on the screen with a current location mark. More accurate data is used by comparing position detection results from GPS to the map-matching.

The current position is calculated by detecting the travel distance from the previous calculation point, and its direction change.

- Travel distance
The travel distance is generated from the vehicle speed sensor input signal. The automatic distance correction function is adopted for preventing a miss-detection of the travel distance because of tire wear etc.
- Travel direction
The gyroscope (angular velocity sensor) and GPS antenna (GPS information) generate the change of the travel direction. Both have advantages and disadvantages as per the following descriptions.

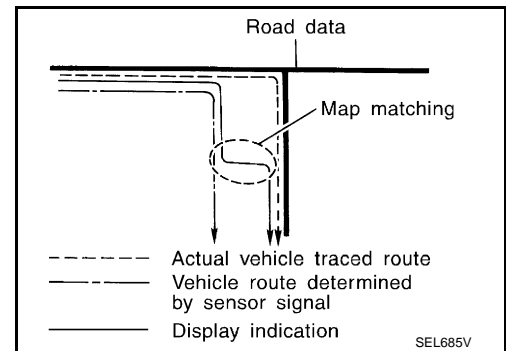


Type	Advantage	Disadvantage
Gyroscope (angular velocity sensor)	The turning angle is precisely detected.	Errors are accumulated when driving a long distance without stopping.
GPS antenna (GPS information)	The travel direction (North/South/East/West) is detected.	The travel direction is not precisely detected when driving slowly.

Input signals are prioritized in each situation. However, this order of priority may change in accordance with more detailed travel conditions so that the travel direction is detected more accurately.

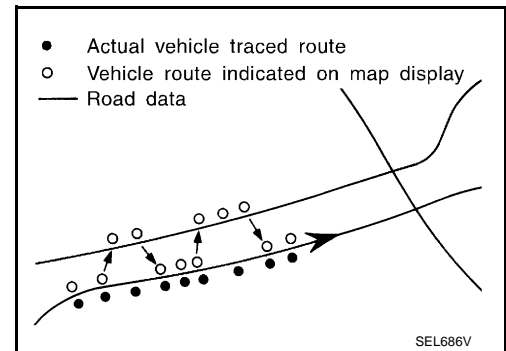
MAP-MATCHING

Map-matching repositions the vehicle on the road map when a new location is judged to be more accurate. This is done by comparing the current vehicle position (calculated by the normal position detection method) from the map data stored in the HDD (Hard Disk Drive).



There is a possibility that the vehicle position may not be corrected in the following case, and when vehicle is driven over a certain distance or time in which GPS information is hard to receive. Correct manually the current location mark on the screen.

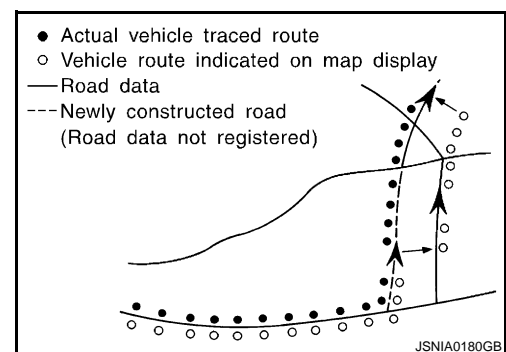
- In map-matching, several alternative routes are prepared and prioritized in addition to the road judged as currently driving on. Therefore, due to errors in the distance and/or direction, an incorrect road may be prioritized, and the current location mark may be repositioned to the incorrect road. If two roads are running in parallel, they are of the same priority. Therefore, the current location mark may appear on either of them alternately, depending on maneuvering of the steering wheel and configuration of the road, etc.



- Map-matching does not function correctly when road on which the vehicle is driving is new, etc. and not recorded in the map data. Also, map-matching does not function correctly when road pattern stored in the map data and the actual road pattern are different due to repair, etc.

Therefore, the map-matching function judges other road as a currently driving road if the road is not in the map, and displays the current location mark on it. Later, the current location mark may be repositioned to the road if the correct road is detected.

- Effective range for comparing the vehicle position and travel direction calculated by the distance and direction with the road data is limited. Therefore, correction by map-matching is not possible when there is an excessive gap between current vehicle position and the position on the map.



GPS (GLOBAL POSITIONING SYSTEM)

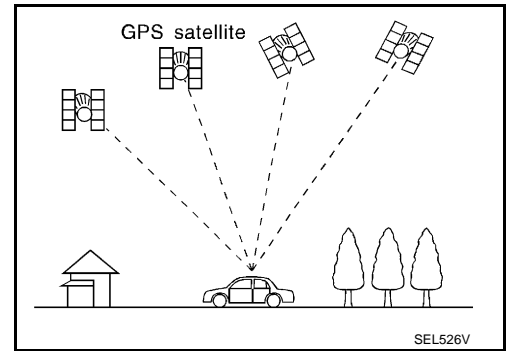
NAVIGATION SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

GPS (Global Positioning System) is developed for and is controlled by the US Department of Defense. The system utilizes GPS satellites (NAVSTAR), transmitting out radio waves while flying on an orbit around the earth at an altitude of approximately 21,000 km.

The receiver calculates the travel position in three dimensions (latitude/longitude/altitude) according to the time lag of the radio waves that four or more GPS satellites transmit (three-dimensional positioning). The GPS receiver calculates the travel position in two dimensions (latitude/longitude) with the previous altitude data if the GPS receiver receives only three radio waves (two-dimensional positioning). GPS position correction is not performed while stopping the vehicle.



Accuracy of the GPS will deteriorate under the following conditions:

- In two-dimensional positioning, GPS accuracy will deteriorate when altitude of the vehicle position changes.
- The position of GPS satellite affects GPS detection precision. The position detection may not be precisely performed.
- The position detection is not performed if GPS receiver does not receive radio waves from GPS satellites. (Inside a tunnel, parking in a building, under an elevated highway etc.) GPS receiver may not receive radio waves from GPS satellites if any object is placed on the GPS antenna.

NOTE:

- The detection result has an error of approximately 10 m even with a high-precision three dimensional positioning.
- There may be cases when the accuracy is lowered and radio waves are stopped intentionally because the GPS satellite signal is controlled by the US trace control center.

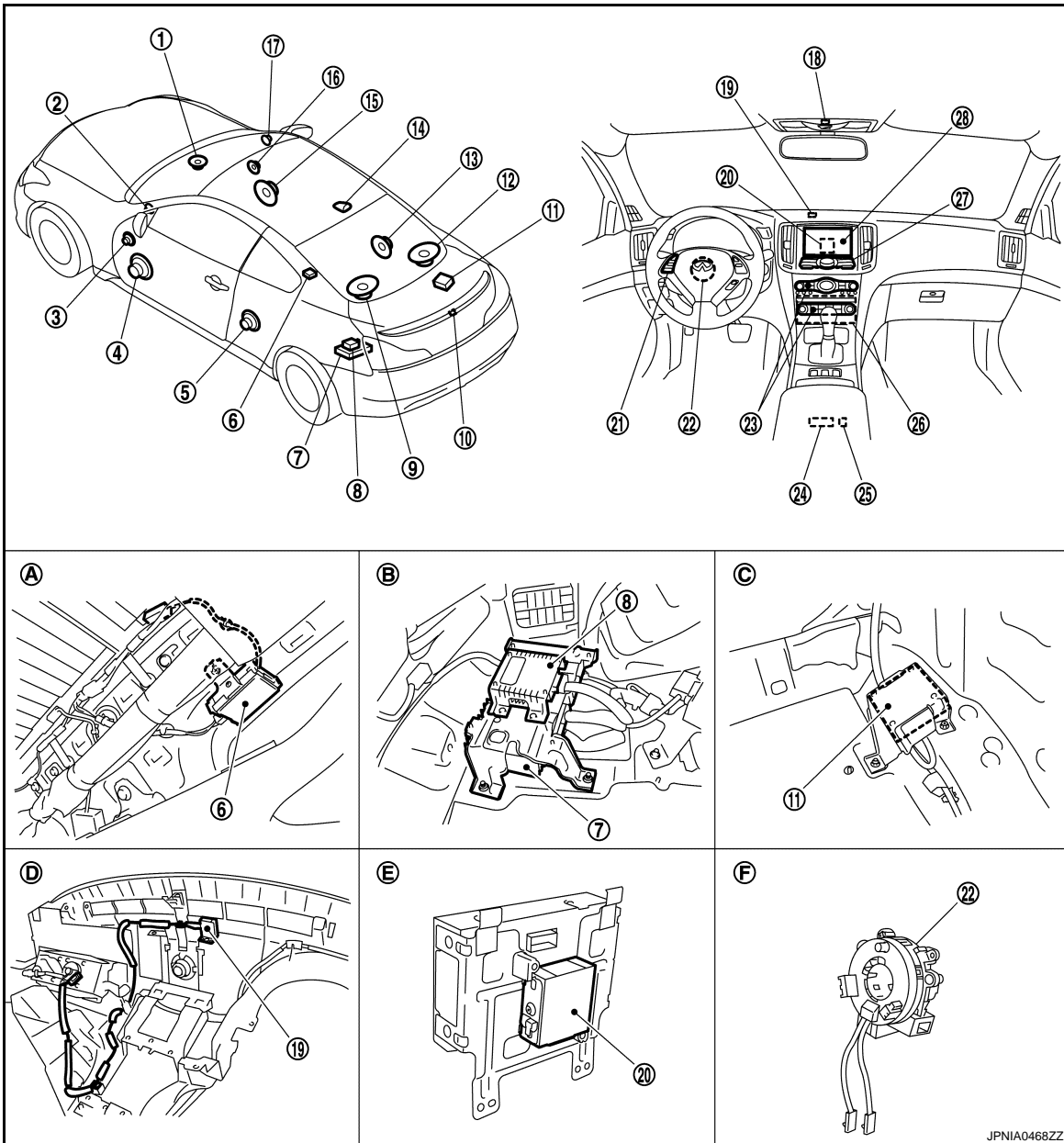
NAVIGATION SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Component Parts Location

INFOID:000000001680245



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|-----------------------------------|-----------------------------|---------------------------|
| 1. Center speaker | 2. Tweeter LH | 3. Door squawker LH |
| 4. Door woofer LH | 5. Rear speaker LH | 6. Antenna amp. |
| 7. BOSE amp. | 8. Woofer amp. | 9. Rear woofer LH |
| 10. Rear view camera | 11. Camera control unit | 12. Rear woofer RH |
| 13. Rear speaker RH | 14. Satellite radio antenna | 15. Door woofer RH |
| 16. Door squawker RH | 17. Tweeter RH | 18. Microphone |
| 19. GPS antenna | 20. iPod adapter | 21. Steering switch |
| 22. Steering angle sensor | 23. Preset switch | 24. Auxiliary input jacks |
| 25. iPod connector | 26. AV control unit | 27. Multifunction switch |
| 28. Display unit | | |
| A. Within rear pillar finisher LH | B. Trunk room LH | C. Trunk room RH |
| D. Instrument panel rear side | E. Rear view of the display | F. Spiral cable part |

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NAVIGATION SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Component Description

INFOID:000000001558777

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• It is the master unit that controls each operation of the Navigation system.• The HDD (Hard Disk Drive) is built in, and the map data is stored in HDD.• The RGB signal (map information) is output to the display.• The voice guidance signal is output to the BOSE amp.
DISPLAY UNIT	<ul style="list-style-type: none">• Map image signal is input from AV control unit, and it is indicated on the display.• Each operation of navigation can be performed by the touch panel function.
BOSE AMP.	Voice guidance signal is input from AV control unit, and it is output to front LH/RH speakers.
DOOR WOOFER	Voice guidance signal from BOSE amp. is output.
DOOR SQUAWKER	
TWEETER	
MULTIFUNCTION SWITCH	<ul style="list-style-type: none">• Each operation of navigation can be performed.• Connected with preset switch via cable and operation signal is transmitted to AV control unit via AV communication.
STEERING SWITCH	<ul style="list-style-type: none">• Each operation of navigation, etc. can be performed.• Switch operating signal is output to AV control unit.
GPS ANTENNA	GPS signal is received and is output to AV control unit.

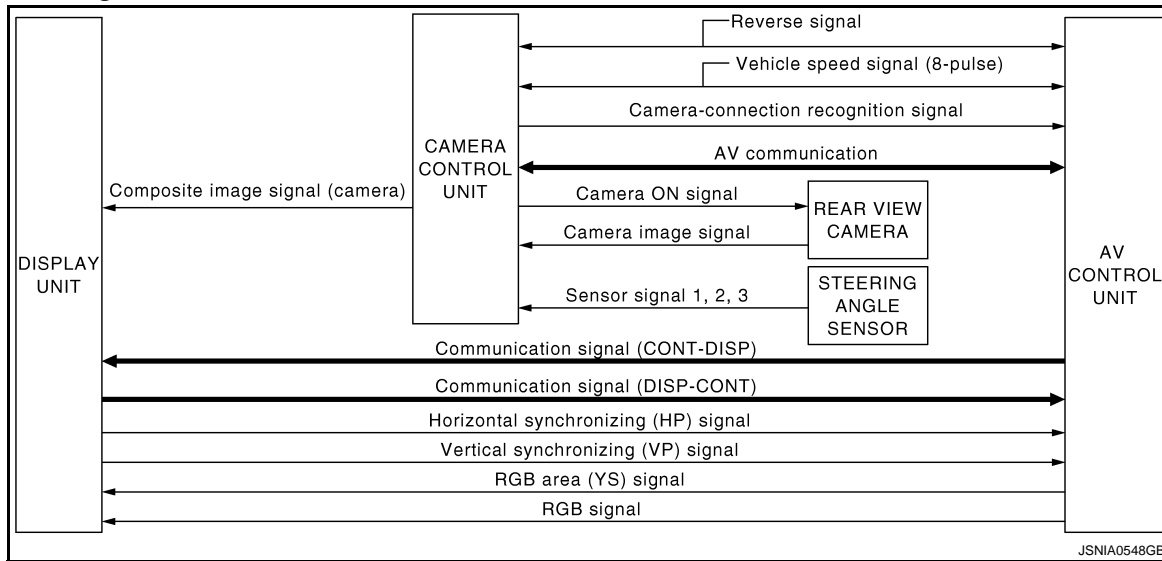
REAR VIEW MONITOR SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

REAR VIEW MONITOR SYSTEM

System Diagram



System Description

INFOID:000000001558779

CAMERA IMAGE OPERATION PRINCIPLE

- Power is supplied to rear view camera from camera control unit and outputs camera image signal to camera control unit when selector lever is set to R position and the reverse signal on camera control unit is input.
- Camera control unit synthesizes guide lines and possible route lines with camera image signal from rear view camera, and transmits camera image signal to the display. In this case, since the reverse signal is also input to AV control unit, the AV control unit recognizes the selector lever as in R position, and it switches communication signal between AV control unit and display unit, and image that is displayed on the display unit by RGB signal with rear view monitor image. In addition, possible route lines are controlled by original sensor signal from steering angle sensor.
- The AV control unit determines whether rear view camera is equipped or not, based on the presence of camera connection recognition signal. It switches to rear view monitor image at the time of reverse signal input when it is equipped.
- Warning message under the rear view monitor display is described by AV control unit.
- AV control unit is connected in communication with camera control unit and display unit, and it controls operation of rear view monitor system.

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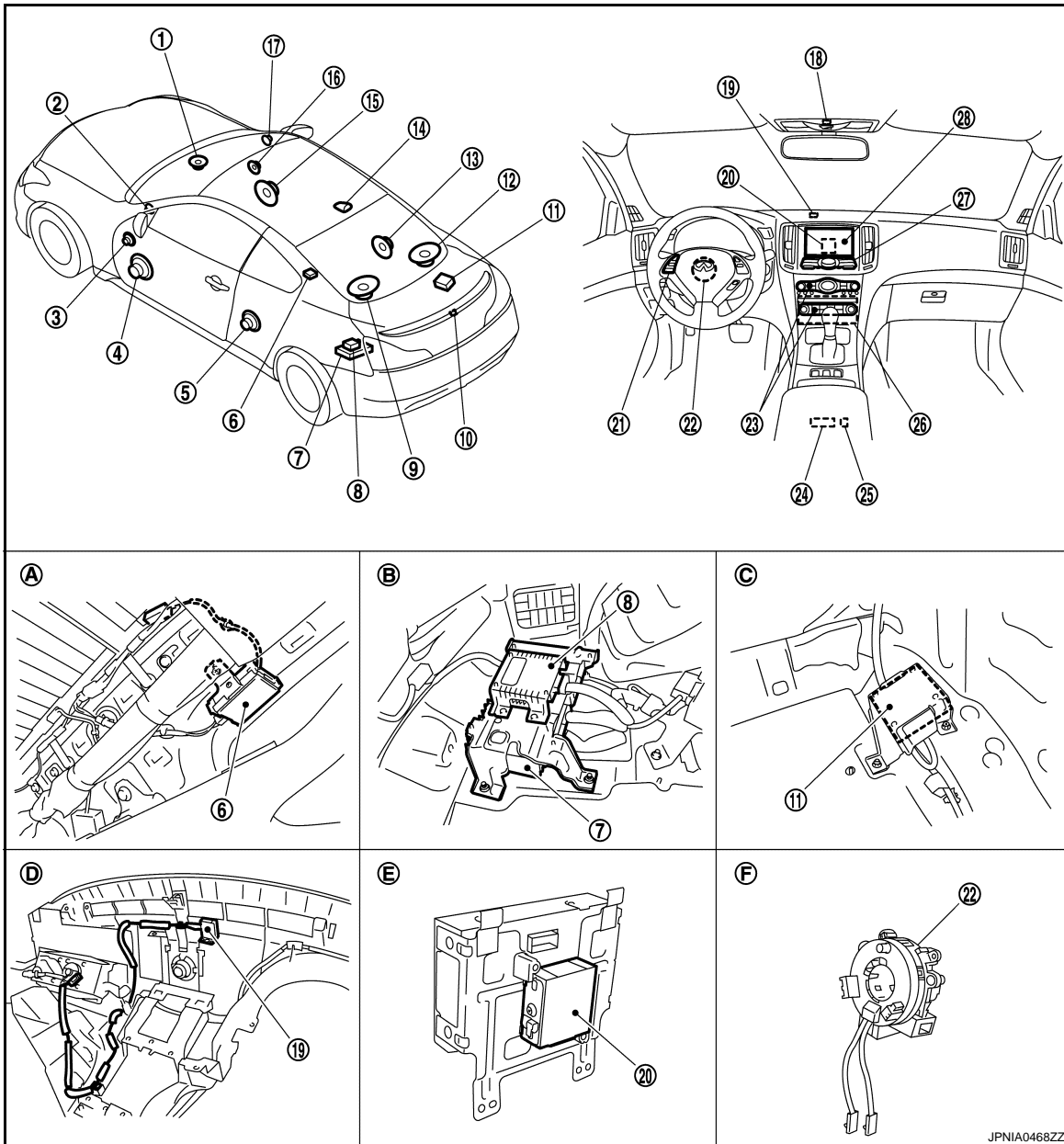
REAR VIEW MONITOR SYSTEM

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[BOSE AUDIO WITH NAVIGATION]

Component Parts Location

INFOID:000000001680246



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| 1. Center speaker | 2. Tweeter LH | 3. Door squawker LH |
| 4. Door woofer LH | 5. Rear speaker LH | 6. Antenna amp. |
| 7. BOSE amp. | 8. Woofer amp. | 9. Rear woofer LH |
| 10. Rear view camera | 11. Camera control unit | 12. Rear woofer RH |
| 13. Rear speaker RH | 14. Satellite radio antenna | 15. Door woofer RH |
| 16. Door squawker RH | 17. Tweeter RH | 18. Microphone |
| 19. GPS antenna | 20. iPod adapter | 21. Steering switch |
| 22. Steering angle sensor | 23. Preset switch | 24. Auxiliary input jacks |
| 25. iPod connector | 26. AV control unit | 27. Multifunction switch |
| 28. Display unit | | |
| A. Within rear pillar finisher LH | B. Trunk room LH | C. Trunk room RH |
| D. Instrument panel rear side | E. Rear view of the display | F. Spiral cable part |

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REAR VIEW MONITOR SYSTEM

[BOSE AUDIO WITH NAVIGATION]

< FUNCTION DIAGNOSIS >

Component Description

INFOID:000000001558781

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">Image on display is changed to rear view monitor image with serial communication between AV control unit and display unit.Warning displayed in rear view monitor image is illustrated.
DISPLAY UNIT	<ul style="list-style-type: none">Camera image signal is transmitted from camera control unit, and RGB signal for warning display is transmitted from AV control unit.Rear view monitor image is changed with the communication for AV control unit.
CAMERA CONTROL UNIT	<ul style="list-style-type: none">Camera image signal is input from rear view camera, and camera image is indicated on the display.Power (camera ON signal) is transmitted to rear view camera.Controlled by AV communication transmitted from AV control unit.AV control unit recognizes the presence of camera system with camera connection recognition signal.
REAR VIEW CAMERA	The image of vehicle rear view is transmitted to camera control unit.
STEERING ANGLE SENSOR	Steering signal necessary for possible route line control is transmitted to camera control unit.

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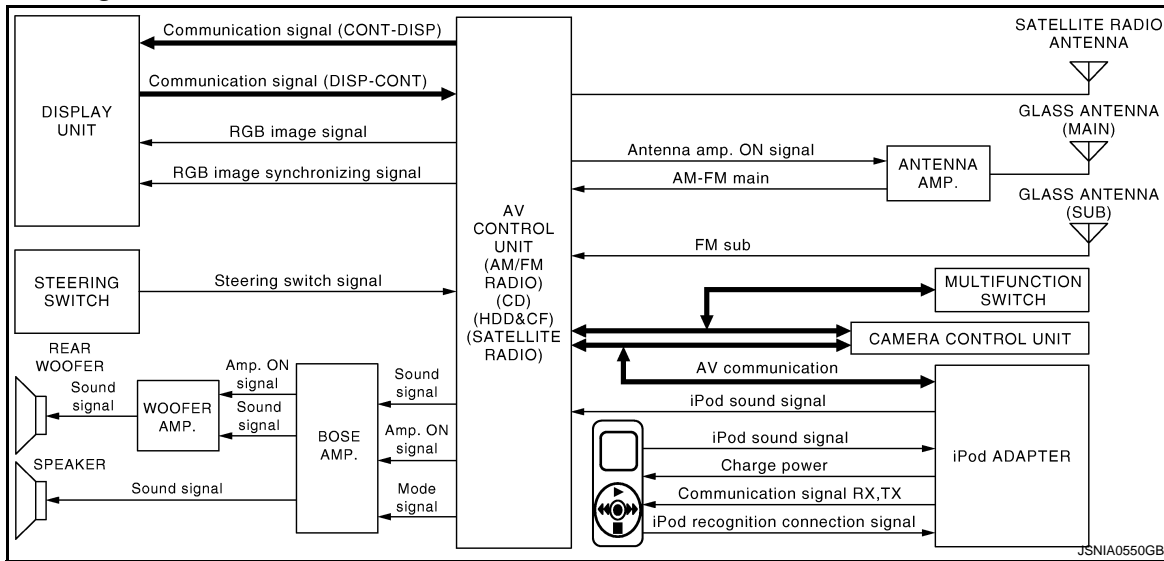
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AUDIO SYSTEM

System Diagram



System Description

INFOID:000000001558783

The audio system is equipped with the following functions. Each function is operated with multifunction switch, preset switch, touch panel, steering switch or audio recognition. Operation status of AUDIO is indicated at display.

Function
AM/FM radio
Satellite radio
CD
Music Box (Hard Disk Drive)
CF (Compact Flash)
iPod connection
Driver's Audio Stage

FUNCTION DESCRIPTION

Operating signal

Audio system operation can be performed with multifunction switch, preset switch, steering switch, touch panel function or voice recognition function.

- Operating signal is transmitted to AV control unit with AV communication when it is operated by multifunction switch or preset switch. The CD ejection operating signal is performed by hardwire.
- Operating signal is transmitted to AV control unit with steering switch signal when it is operated by steering switch.
- Refer to [AV-370. "System Description"](#) for explanation of voice recognition function and touch panel function.

Screen display

- Switching of display is performed with serial communication between display unit and AV control unit.
- The image signal to display operating condition is performed with RGB signal, RGB area signal and RGB image synchronizing signal.

AM/FM Radio Mode

- AM/FM radio tuner is built into AV control unit.
- Audio signal is received by glass antenna, next it is amplified by antenna amp., and finally it is input to AV control unit. Audio signal is input to BOSE amp. and BOSE amp. outputs to woofer amp. and each speakers for AV control unit.

AUDIO SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Satellite Radio Mode

- Satellite radio tuner is built into AV control unit.
- Audio signal (satellite radio) is received by satellite antenna, and it is input to AV control unit. AV control unit outputs audio signal to BOSE amp. The signal is also outputted from BOSE amp. to both woofer amp. and each speaker.

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CD Mode

- CD function is built into AV control unit.
- AV control unit outputs audio signal to BOSE amp. and BOSE amp. outputs to woofer amp. and each speaker when CD is inserted to AV control unit.

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Music Box Mode

- Music CD data is stored on HDD that is built into AV control unit, and it can be played.
- AV control unit outputs music (audio signal) that is stored on HDD to BOSE amp., and BOSE amp. outputs to woofer amp. and each speaker.

D

CF Mode

- AV control unit has built in CF replay function.
- Music (audio signal) that is stored in CF outputs to BOSE amp., and BOSE amp. outputs to woofer amp. and each speaker when CF is inserted into AV control unit.

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iPod Connection

- Connect iPod® and iPod adapter with wire harness and iPod adapter input iPod sound signal from iPod®. When iPod mode is selected, iPod adapter output iPod sound signal to AV control unit. AV control unit output sound signal to BOSE amp., and BOSE amp. output sound signal to woofer amp. and each speaker.
- Receiving/transmitting of iPod® operation signals are performed as follows:
 - between AV control unit and iPod adapter: AV communication.
 - between iPod® and iPod adapter: serial communication.
- The iPod® connection status can be recognized whether iPod adapter receives iPod connection recognition signal.
- The iPod adapter is possible to charge iPod®.

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Driver's Audio Stage Mode

- Driver's Audio Stage controls the speaker's output characteristic by BOSE amp. so that the driver's seat is to be the center of sounds.
- ON/OFF signals of Driver's Audio Stage are transmitted from AV control unit to BOSE amp. using Mode signal.

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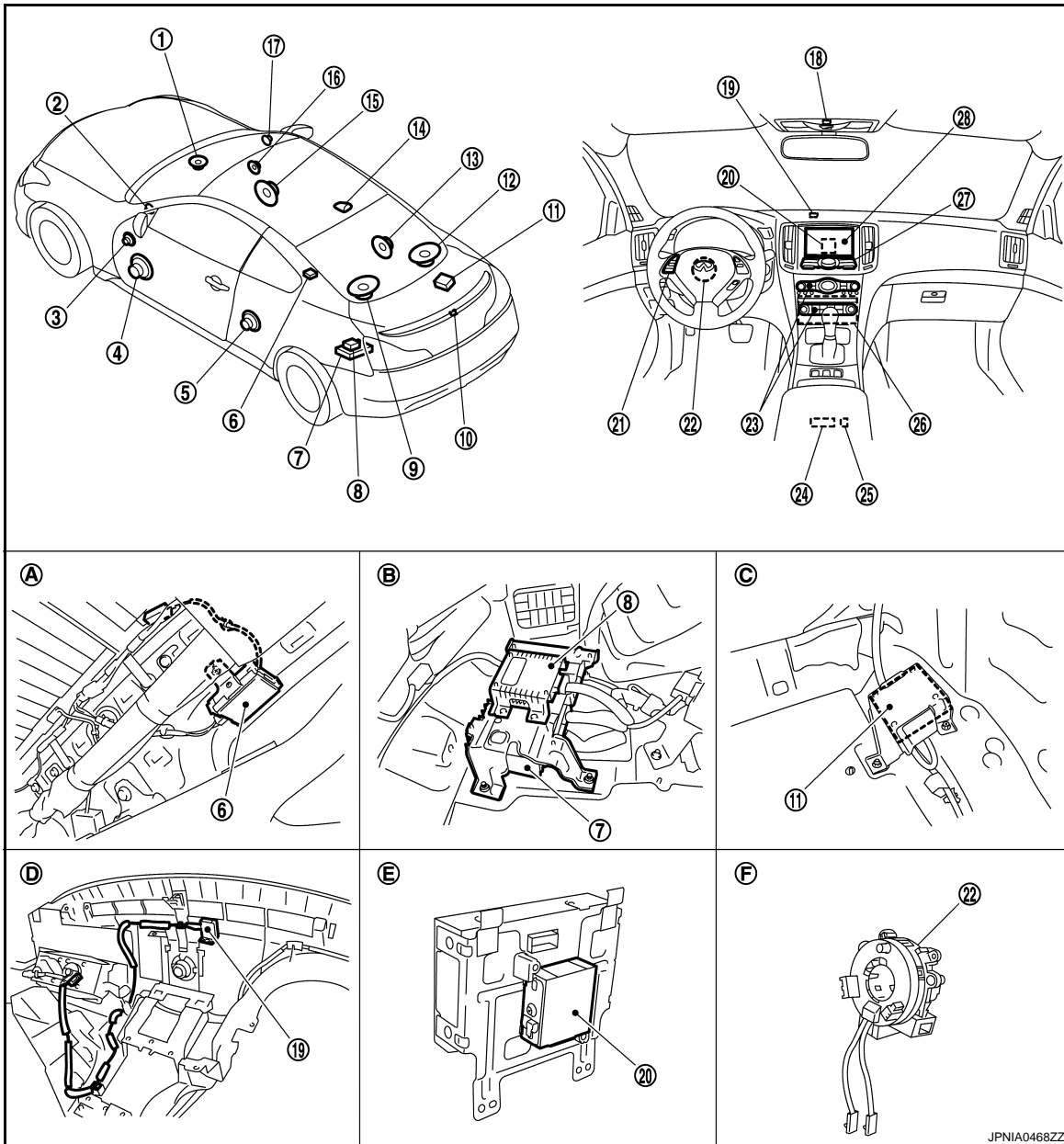
AUDIO SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Component Parts Location

INFOID:000000001680247



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|-----------------------------------|-----------------------------|---------------------------|
| 1. Center speaker | 2. Tweeter LH | 3. Door squawker LH |
| 4. Door woofer LH | 5. Rear speaker LH | 6. Antenna amp. |
| 7. BOSE amp. | 8. Woofer amp. | 9. Rear woofer LH |
| 10. Rear view camera | 11. Camera control unit | 12. Rear woofer RH |
| 13. Rear speaker RH | 14. Satellite radio antenna | 15. Door woofer RH |
| 16. Door squawker RH | 17. Tweeter RH | 18. Microphone |
| 19. GPS antenna | 20. iPod adapter | 21. Steering switch |
| 22. Steering angle sensor | 23. Preset switch | 24. Auxiliary input jacks |
| 25. iPod connector | 26. AV control unit | 27. Multifunction switch |
| 28. Display unit | | |
| A. Within rear pillar finisher LH | B. Trunk room LH | C. Trunk room RH |
| D. Instrument panel rear side | E. Rear view of the display | F. Spiral cable part |

AUDIO SYSTEM

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Component Description

INFOID:000000001558785

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Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> Receiving function of AM/FM/satellite radio, replaying function of CD, replaying/saving function of music box (HDD), replaying function of CF and voice recognition function are integrated. Audio signal is output to BOSE amp. from each function.
DISPLAY UNIT	<ul style="list-style-type: none"> Display image is controlled by the serial communication from AV control unit. RGB image signal (audio operation condition) is input from AV control unit. Touch panel function can be operated for each system by touching a display directly.
BOSE AMP.	Inputs power (amp ON) and sound signal from AV control unit, and outputs sound signal to woofer amp. and each speaker.
WOOFER AMP.	Inputs power (amp ON) and sound signal from BOSE amp., and outputs sound signal to each woofer.
DOOR WOOFER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs low-pitched sound.
DOOR SQUAWKER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs midrange sound.
REAR SPEAKER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs high, mid and low range sounds.
TWEETER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs high range sound.
CENTER SPEAKER	<ul style="list-style-type: none"> Outputs sound signal from BOSE amp. Outputs high, mid and low range sounds.
REAR WOOFER	<ul style="list-style-type: none"> Outputs sound signal from woofer amp. Outputs low-pitched sound.
MULTIFUNCTION SWITCH	<ul style="list-style-type: none"> Each audio operation can be operated. Connected with preset switch via cable, and operation signal is transmitted to AV control unit via AV communication.
PRESET SWITCH	<ul style="list-style-type: none"> Each audio operation can be operated. Connected with multifunction switch via cable, and operation signal is transmitted to AV control unit via AV communication. The CD ejection operating signal is performed by hardwire.
STEERING SWITCH	<ul style="list-style-type: none"> Each audio operation can be operated. Steering switch signal (operation signal) is output to AV control unit.
MICROPHONE	<ul style="list-style-type: none"> It is used for voice activated operation Pronounced voice is converted to voice signal and transmitted to AV control unit.
ANTENNA AMP.	<ul style="list-style-type: none"> Radio signal received by glass antenna is amplified and transmitted to AV control unit. Power (antenna amp ON signal) is supplied from AV control unit.
SATELLITE RADIO ANTENNA	Audio signal (satellite radio) is received and output to AV control unit.
iPod ADAPTER	<ul style="list-style-type: none"> Inputs iPod sound signal from iPod®, and outputs iPod sound signal to AV control unit. Receiving/transmitting of iPod® operation signals are performed as follows: <ul style="list-style-type: none"> between AV control unit and iPod adapter: AV communication. between iPod® and iPod adapter: serial communication.

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

Diagnosis Description

INFOID:000000001558786

MULTIFUNCTION SWITCH AND PRESET SWITCH SELF-DIAGNOSIS FUNCTION

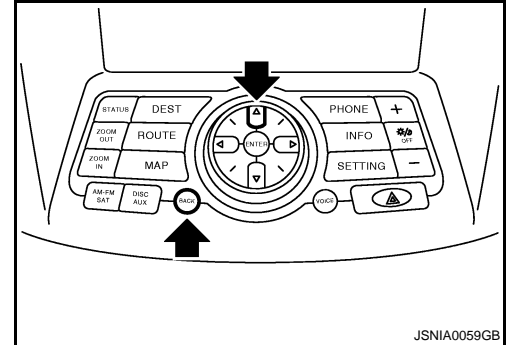
The ON/OFF operation (continuity) of each switch in the multifunction switch and preset switch can be checked.

Self-diagnosis mode

- Press the “BACK” switch and the “UP” switch of the 8-direction switches within 10 seconds after turning the ignition switch from OFF to ACC and hold them for 3 seconds or more. Then the buzzer sounds, all indicators of the preset switch illuminate, and the self-diagnosis mode starts.
- The continuity of each switch at the ON position can be checked by pressing the switch. The buzzer sounds if the switch is normal.

CAUTION:

The hazard switch and CD eject switch cannot be checked.



Finishing self-diagnosis mode

Self-diagnosis mode is canceled when turning the ignition switch OFF.

MULTI AV SYSTEM ON BOARD DIAGNOSIS FUNCTION

- The AV control unit diagnosis function starts up with multifunction switch operation and the AV control unit performs a diagnosis for each unit in the system during the on board diagnosis.
- Perform a CONSULT-III diagnosis if the on board diagnosis does not start, e.g., the screen does not display anything, the multifunction switch does not function, etc.

ON BOARD DIAGNOSIS

Description

- The trouble diagnosis function has a self-diagnosis mode for conducting trouble diagnosis automatically and a confirmation/adjustment mode for operating manually.
- The self-diagnosis mode performs diagnoses on the AV control unit, connections between system components as well as connections between AV control unit and GPS antenna and between AV control unit and satellite radio antenna. Then it displays the diagnosis results on the display.
- The confirmation/adjustment mode allows the technician to check, modify or adjust the vehicle signals and set values, as well as to monitor the system error records and system communication status. The checking, modifying or adjusting generally require human intervention and judgment (the system cannot make judgment automatically).

On board diagnosis item

Mode	Description
Self-Diagnosis	<ul style="list-style-type: none"> AV control unit diagnosis Diagnoses the connections across system components, between AV control unit and GPS antenna and between AV control unit and satellite radio antenna.

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

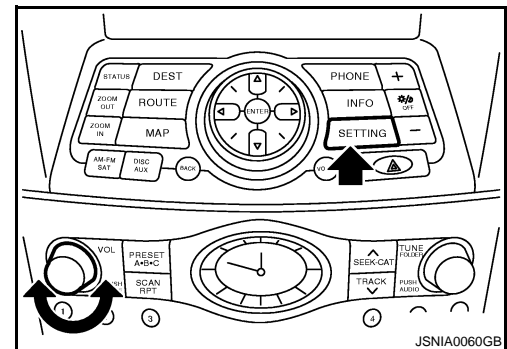
< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Mode		Description	
Confirmation/ Adjustment	Display Diagnosis	The following check functions are available: color tone check by color bar display, light and shade check by gray scale display and touch panel calibration response check.	
	Vehicle Signals	Diagnosis of signals can be performed for vehicle speed, parking brake, lights, ignition switch, and reverse.	
	Speaker Test	The connection of a speaker can be confirmed by test tone.	
	Climate Control	Start auto air conditioner system self-diagnosis.	
	Navigation	Steering Angle Adjustment	When there is a difference between the actual turning angle and the vehicle mark turning angle, it can be adjusted.
		Speed Calibration	When there is a difference between the current location mark and the actual location, it can be adjusted.
		XM SAT Subscription Status	The XM NavTraffic subscription status can be checked.
	Error History	The system malfunction and the frequency when occurring in the past are displayed. When the malfunctioning item is selected, the time and place that the selected malfunction last occurred are displayed.	
	Synchronizer FES clock	–	
	Vehicle CAN Diagnosis	The transmitting/receiving of CAN communication can be monitored.	
	AV COMM Diagnosis	The communication condition of each unit of Multi AV system can be monitored.	
	Handsfree Phone	The received volume adjustment of hands-free phone, microphone speaker check, and erase memory can be performed.	
	Camera Cont.	The signal connected to camera control unit can be checked and the guiding line position that overlaps rear view camera image can be adjusted.	
	Bluetooth	The passkey and the device name can be checked and changed.	
	SAT	Change Channel	Any necessary channels required to receive traffic information from the satellite radio system can be set.
		Change Application ID	Any application ID's required to receive traffic information from the satellite radio system can be set.
		Diag	Not used.
	Delete Unit Connection Log	Erase the connection history of unit and error history.	
Initialize Settings	Initializes the AV control unit memory.		

STARTING PROCEDURE

1. Start the engine.
2. Turn the audio system OFF.
3. While pressing the "SETTING" button, turn the volume control dial clockwise or counterclockwise for 40 clicks or more. (When the self-diagnosis mode is started, a short beep will be heard.)
 - Shifting from current screen to previous screen is performed by pressing "BACK" button.



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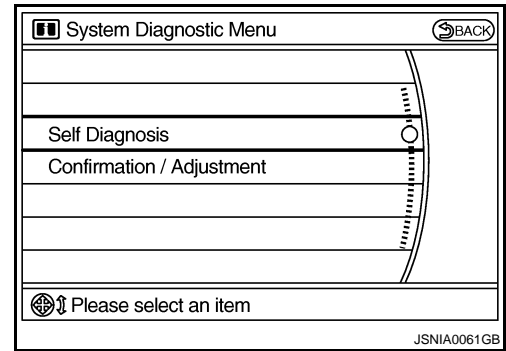
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DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BOSE AUDIO WITH NAVIGATION]

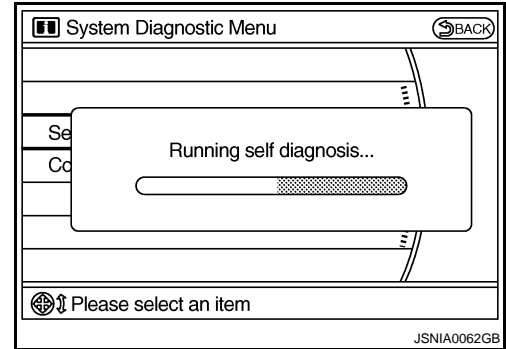
< FUNCTION DIAGNOSIS >

- The trouble diagnosis initial screen is displayed, and then the items of "Self Diagnosis" and "Confirmation/Adjustment" can be selected.



SELF-DIAGNOSIS MODE

- Start the self-diagnosis function and select "Self Diagnosis".
 - Self-diagnosis subdivision screen is displayed, and the self-diagnosis mode starts.
 - The bar graph visible on the center of the self-diagnosis subdivision screen indicates progress of the trouble diagnosis.

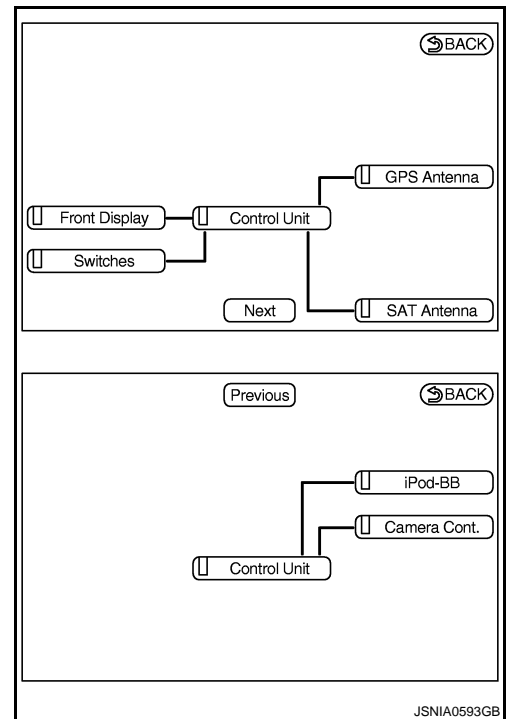


- Diagnosis results are displayed after the self-diagnosis is completed. The unit names and the connection lines are color-coded according to the diagnostic results.

Diagnosis results	Unit	Con- nection line
Normal	Green	Green
Connection malfunction	Gray	Yellow
Unit malfunction ^{Note}	Red	Green

NOTE:

- Only the control unit (AV control unit) is displayed in red.
 - Replace AV control unit if "Self-Diagnosis did not run because of a control unit malfunction" is indicated. The symptom is AV control unit internal error. Refer to [AV-608. "Exploded View"](#).
- If multiple errors occur at the same time for a single unit, the screen switch colors are determined according to the following order of priority: red > gray.

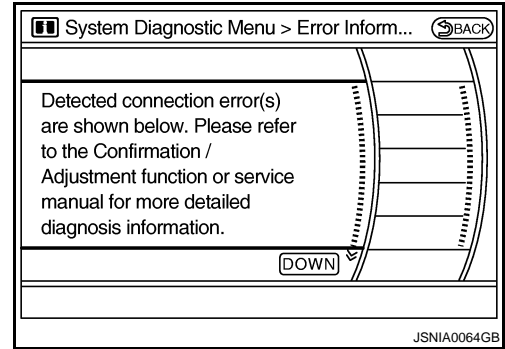


DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BOSE AUDIO WITH NAVIGATION]

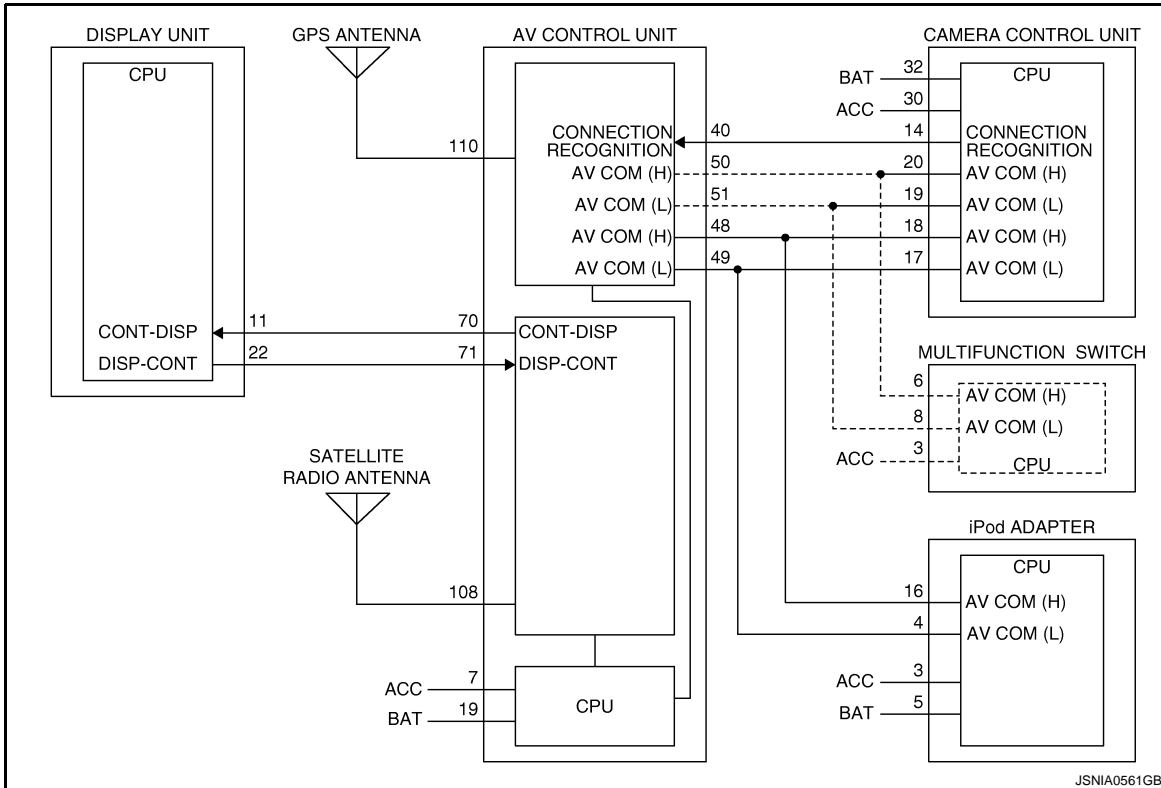
< FUNCTION DIAGNOSIS >

- The comments of the self-diagnosis results can be viewed with a component in the diagnosis result screen.



Detection range of self-diagnosis mode

- The self-diagnosis mode allows the technician to diagnose the connection in the communication line between AV control unit and each unit and the internal operation of the AV control unit.
- Because the start condition of diagnosis function is a switch operation, the on board diagnosis function cannot be started up if any malfunction is detected in the communication circuit between AV control unit and multifunction switch.



NOTE:

Onboard self-diagnosis cannot be started when an error occurs on the dotted-line part above.

SELF-DIAGNOSIS RESULTS

Check the applicable display at the following table, and then repair the malfunctioning parts.

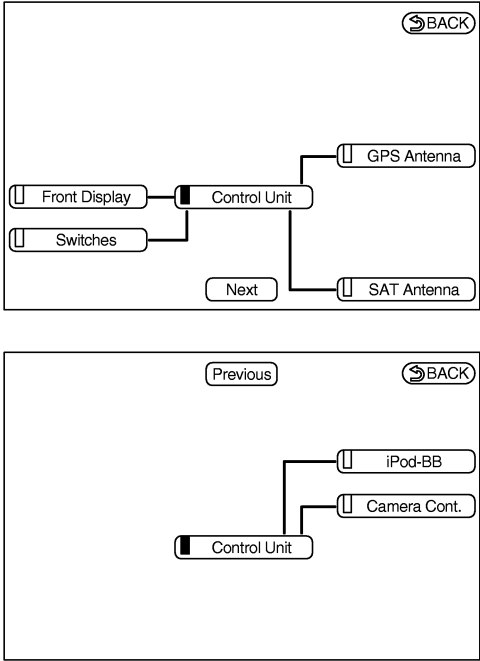
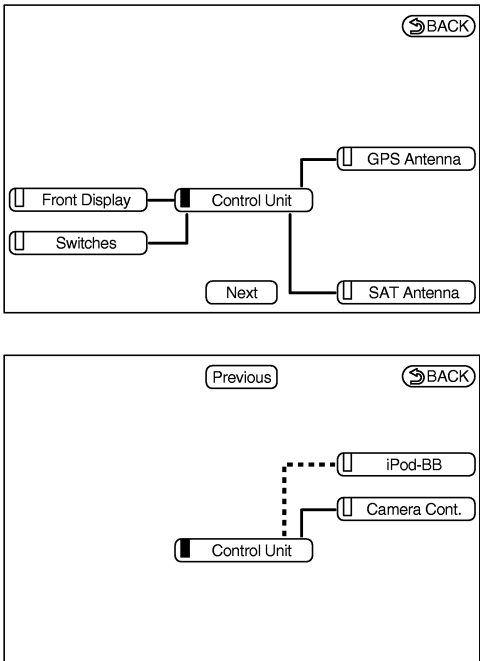
Self-diagnosis result chart

AV

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

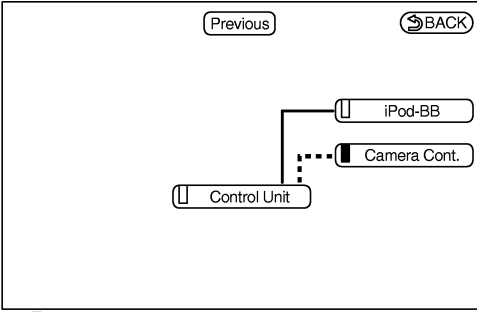
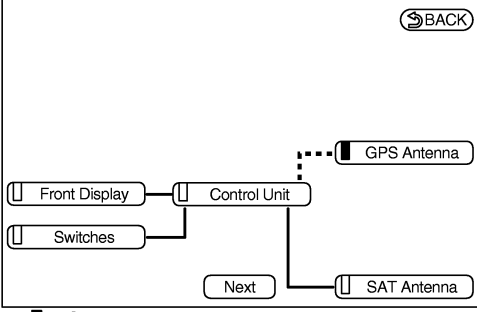
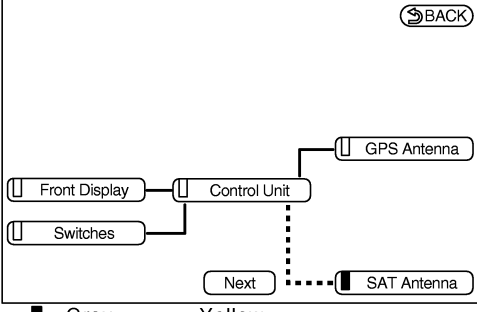
[BOSE AUDIO WITH NAVIGATION]

Area with yellow connection lines	Description	Possible malfunction location / Action to take
 <p>■ : Red</p> <p>JSNIA0594GB</p>	<p>AV control unit malfunction is detected.</p>	<p>AV control unit is malfunction.</p>
<p>“Self-Diagnosis did not run because of a control unit malfunction”</p>  <p>■ : Red - - - - : Yellow</p> <p>JSNIA0595GB</p>	<p>Malfunction is detected in AV control unit power supply and ground circuits.</p>	<ul style="list-style-type: none"> • AV control unit power supply and ground circuits. • When there is no malfunction, AV control unit is malfunctioning.

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Area with yellow connection lines	Description	Possible malfunction location / Action to take
 <p>■ : Gray - - - - : Yellow</p> <p>JSNIA0596GB</p>	<p>Malfunction is detected in Camera-connection recognition signal circuit.</p>	<p>Camera connection recognition signal circuit.</p>
 <p>■ : Gray - - - - : Yellow</p> <p>JSNIA0597GB</p>	<p>GPS antenna connection malfunction is detected.</p>	<p>GPS antenna.</p>
 <p>■ : Gray - - - - : Yellow</p> <p>JSNIA0598GB</p>	<p>Poor connection is detected in satellite radio antenna.</p>	<ul style="list-style-type: none"> • Satellite radio antenna feeder. • Satellite radio antenna.

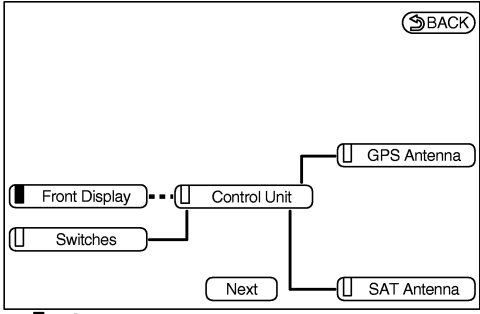
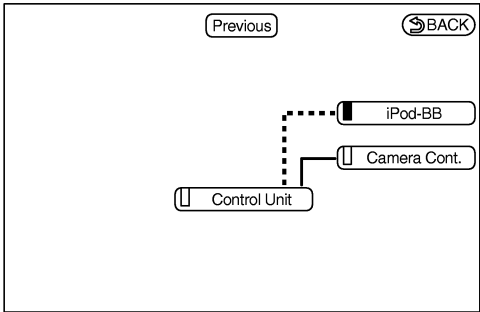
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DIAGNOSIS SYSTEM (AV CONTROL UNIT)

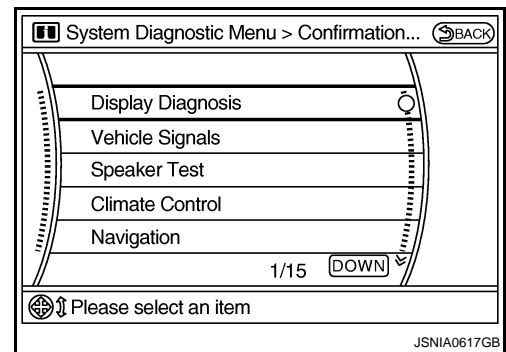
< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Area with yellow connection lines	Description	Possible malfunction location / Action to take
 <p>■ : Gray - - - - : Yellow</p> <p>JSNIA0599GB</p>	<ul style="list-style-type: none"> Malfunction is detected in communication circuit between AV control unit and display unit. Malfunction is detected in communication signal between AV control unit and display unit. 	<p>Communication circuits between AV control unit and display unit.</p>
 <p>■ : Gray - - - - : Yellow</p> <p>JSNIA0600GB</p>	<ul style="list-style-type: none"> iPod adapter power supply and ground circuits. Malfunction is detected in AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch. Malfunction is detected in AV communication circuits between camera control unit and iPod adapter. Malfunction is detected in AV communication signal between AV control unit and iPod adapter. 	<ul style="list-style-type: none"> iPod adapter power supply and ground circuits. AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch. AV communication circuits between camera control unit and iPod adapter.

CONFIRMATION/ADJUSTMENT MODE

- Start the diagnosis function and select "Confirmation/Adjustment". The confirmation/adjustment mode indicates where each item can be checked or adjusted.
- Select each switch on the "Confirmation/Adjustment Mode" screen to display the relevant trouble diagnosis screen. Press the "BACK" switch to return to the initial Confirmation/Adjustment Mode screen.

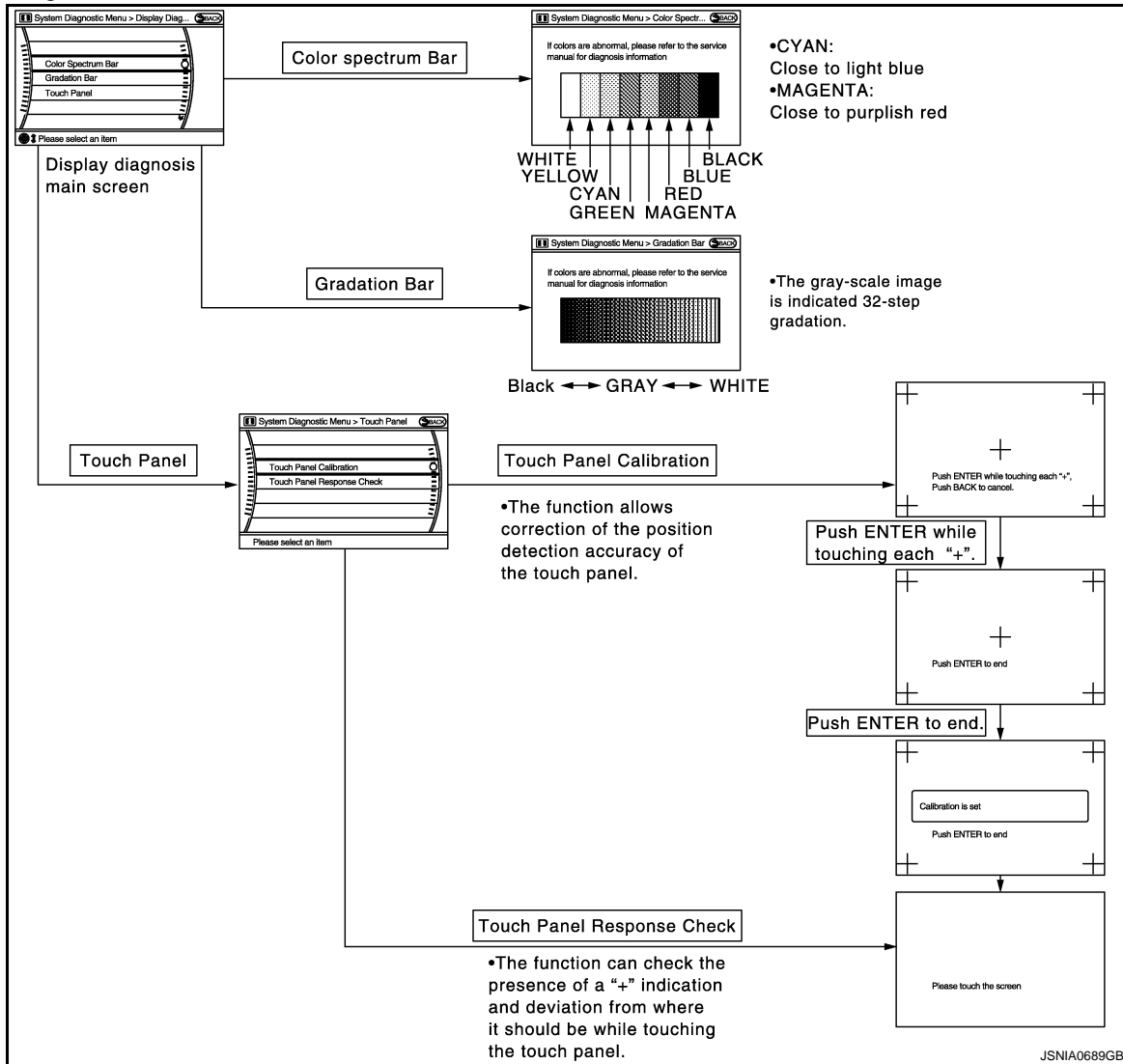


DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Display Diagnosis

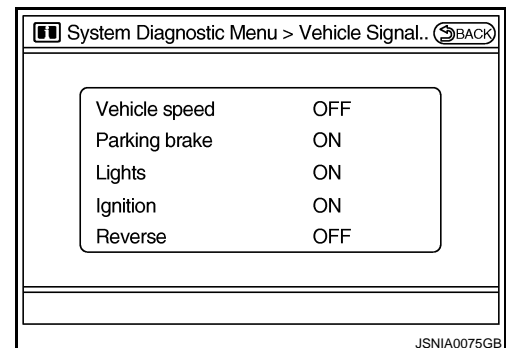


The tint of the color bar indication is as per the following list if RGB signal error is detected.

- R (red) signal error** : Light blue (Cyan) tint
- G (green) signal error** : Purple (Magenta) tint
- B (blue) signal error** : Yellow tint

Vehicle Signals

A comparison check can be made of each actual vehicle signal and the signals recognized by the system.



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[BOSE AUDIO WITH NAVIGATION]

Diagnosis item	Display	Vehicle status	Remarks
Vehicle speed	ON	Vehicle speed > 0 km/h (0 MPH)	Changes in indication may be delayed. This is normal.
	OFF	Vehicle speed = 0 km/h (0 MPH)	
Parking brake	ON	Parking brake is applied.	
	OFF	Parking brake is released.	
Lights	ON	Light switch ON	—
	OFF	Light switch OFF	—
Ignition	ON	Ignition switch ON	—
	OFF	Ignition switch in ACC position	—
Reverse	ON	Shift the selector lever to "R" position	Changes in indication may be delayed. This is normal.
	OFF	Shift the selector lever other than "R" position	

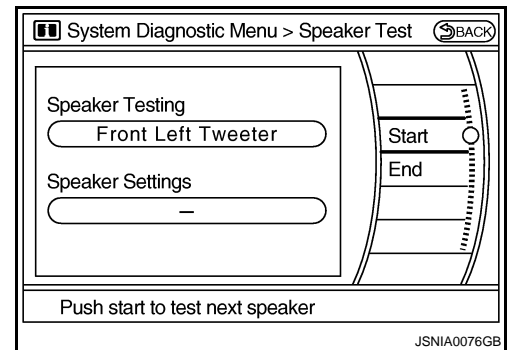
Speaker Test

Select "SPEAKER DIAGNOSIS" to display the Speaker Diagnosis screen. Press "START and NEXT" to generate a test tone in a speaker. Press "Start" to generate a test tone in the next speaker. Press "End" to stop the test tones.

NOTE:

The frequency of test tone emitted from each speaker is as follows.

Tweeter	: 3 kHz
Front speaker	: 300 Hz
Rear speaker	: 1 kHz



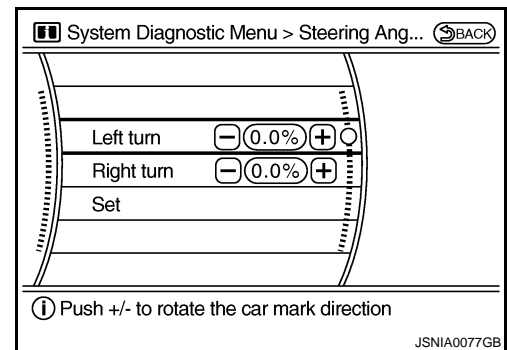
Climate Control

Refer to "HEATER & AIR CONDITIONING CONTROL SYSTEM" for details.

Navigation

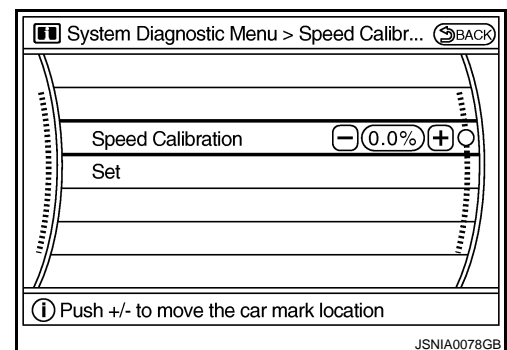
STEERING ANGLE ADJUSTMENT

The steering angle output value detected with the gyroscope is adjusted.



SPEED CALIBRATION

During normal driving, distance error caused by tire wear and tire pressure change is automatically adjusted for by the automatic distance correction function. This function, on the other hand, is for immediate adjustment, in cases such as driving with tire chain fitted on tires.



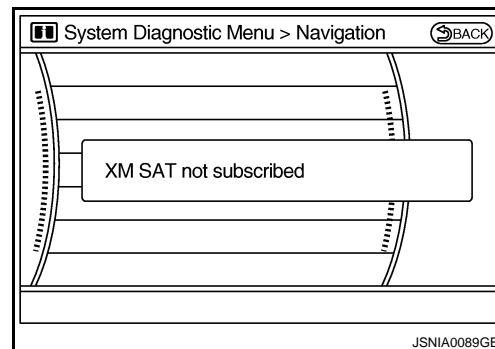
DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

XM SAT SUBSCRIPTION STATUS

The XM NavTraffic subscription status can be checked.



Error History

The self-diagnosis results are judged depending on whether any error occurs from when “Self-diagnosis” is selected until the self-diagnosis results are displayed.

However, the diagnosis results are judged normal if an error has occurred before the ignition SW is turned ON and then no error has occurred until the self-diagnosis start. Check the “Error Record” to detect any error that may have occurred before the self-diagnosis start because of this situation.

The error record displays the time and place of the most recent occurrence of that error. However, take note of the following points.

- If there is a malfunction with the GPS antenna circuit board in the AV control unit, the correct date and time of occurrence may not be able to be displayed.
- Place of the error occurrence is represented by the position of the current location mark at the time an error occurred. If current location mark has deviated from the correct position, then the place of the error occurrence cannot be located correctly.
- The frequency of occurrence is displayed in a count up manner. The actual count up method differs depending on the error item.

Count up method A

- The counter resets to 0 if an error occurs when IGN switch is turned ON. The counter increases by 1 if the condition is normal at a next IGN ON cycle.
- The counter upper limit is 39. Any counts exceeding 39 are ignored. The counter can be reset (no error record display) with the “Delete log” switch or CONSULT-III.

Count up method B

- The counter increases by 1 if an error occurs when IGN switch is ON. The counter will not decrease even if the condition is normal at the next IGN ON cycle.
- The counter upper limit is 50. Any counts exceeding 50 are ignored. The counter can be reset (no error record display) with the “Delete log” switch or CONSULT-III.

Display type of occurrence frequency	Error history display item
Count up method A	CAN communication line, control unit (CAN), AV communication line, control unit (AV communication)
Count up method B	Other than the above

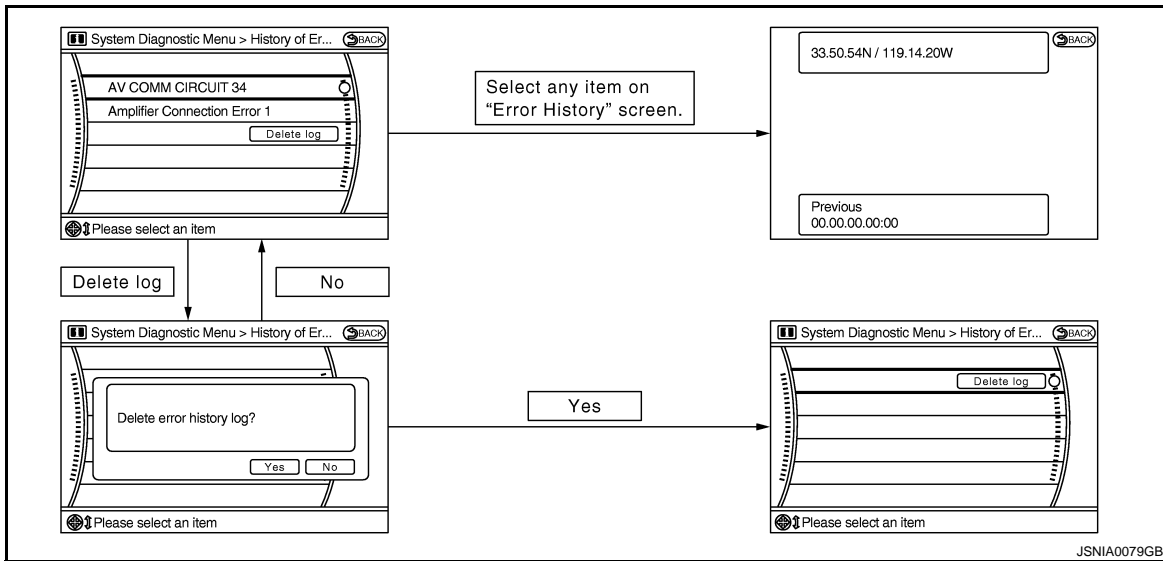
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< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]



Error item

Some error items may be displayed simultaneously according to the cause. If some error items are displayed simultaneously, the detection of the cause can be performed by the combination of display items

Error item	Description	Possible malfunction factor/Action to take
CAN COMM CIRCUIT	CAN communication malfunction is detected.	Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results. Refer to AV-403, "CONSULT - III Function (MULTI AV)" .
CONTROL UNIT (CAN)	CAN initial diagnosis malfunction is detected.	Replace the AV control unit.
CONTROL UNIT (AV)	AV communication circuit initial diagnosis malfunction is detected.	
FLASH-ROM Error Of Control Unit	AV control unit malfunction is detected.	
Connection Of Gyro		
XM SERIAL COMM Error		
CAN Controller Memory Error		
Bluetooth Module Connection Error		
HDD CONN Error		
HDD READ Error		
HDD WRITE Error		
HDD COMM Error		
HDD ACCESS Error		
DSP CONN Error	AV control unit power supply and ground circuits.	
DSP COMM Error		
Internal Communication Error		
GPS Communication Error		An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs. Replace the AV control unit if the malfunction occurs constantly.
GPS ROM Error		
GPS RAM Error		
GPS RTC Error		

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

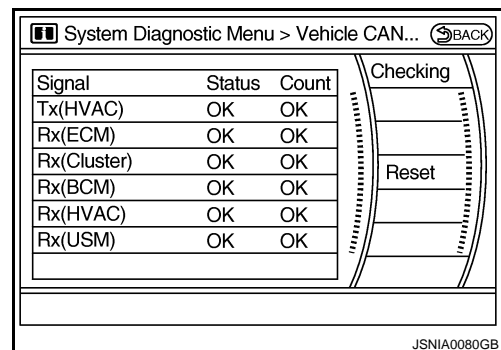
< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
Front Display Connection Error	<ul style="list-style-type: none"> • Display unit power supply and ground circuits malfunction is detected. • Malfunction is detected in communication circuits between AV control unit and display unit. • Malfunction is detected in communication signal between AV control unit and display unit. 	<ul style="list-style-type: none"> • Display unit power supply and ground circuits. • Communication circuits between AV control unit and display unit.
GPS Antenna Error	GPS antenna connection malfunction is detected.	GPS antenna.
Camera Control Unit Connection Error	Malfunction is detected in camera connection recognition circuit between AV control unit and camera control unit.	Camera-connection recognition circuit between AV control unit and camera control unit.
XM Antenna Connection Error	Poor connection is detected in satellite radio antenna.	<ul style="list-style-type: none"> • Satellite radio antenna feeder. • Satellite radio antenna.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Internal Communication Error 	<ul style="list-style-type: none"> • AV control unit power supply and ground circuits malfunction detected. • AV control unit malfunction is detected. 	AV control unit power supply and ground circuits.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Switches Connection Error 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuits malfunction is detected. • Malfunction is detected in AV communication circuit between AV control unit and multifunction switch. • Malfunction is detected in AV communication signal between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuits. • AV communication circuit between AV control unit and multifunction switch.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Rearview Camera Connection Error 	<ul style="list-style-type: none"> • Camera control unit power supply and ground circuits malfunction is detected. • Malfunction is detected in AV communication signal between AV control unit and camera control unit. 	Camera control unit power supply and ground circuits.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • iPod Connection Error 	<ul style="list-style-type: none"> • iPod adapter power supply and ground circuits malfunction is detected. • Malfunction is detected in AV communication circuits between camera control unit and iPod adapter. • Malfunction is detected in AV communication signal between AV control unit and iPod adapter. 	<ul style="list-style-type: none"> • iPod adapter power supply and ground circuits. • AV communication circuits between AV control unit and iPod adapter.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Rearview Camera Connection Error • iPod Connection Error 	Malfunction is detected in AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.	AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.
<ul style="list-style-type: none"> • AV COMM CIRCUIT • Switches Connection Error • Rearview Camera Connection Error • iPod Connection Error 	Malfunction is detected in AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.	AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.

Vehicle CAN Diagnosis

- CAN communication status and error counter is displayed.
- The error counter displays "OK" if any malfunction was not detected in the past and displays "0" if a malfunction is detected. It increases by 1 if the condition is normal at the next ignition switch ON cycle. The upper limit of the counter is 39.
- The error counter is erased if "Reset" is pressed.



DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Items	Display (Current)	Malfunction counter (Past)
Tx (HVAC)	OK / UNKWN	OK / 0 – 39
Rx (ECM)	OK / UNKWN	OK / 0 – 39
Rx (Cluster)	OK / UNKWN	OK / 0 – 39
Rx (BCM)	OK / UNKWN	OK / 0 – 39
Rx (HVAC)	OK / UNKWN	OK / 0 – 39
Rx (USM)	OK / UNKWN	OK / 0 – 39

AV COMM Diagnosis

- Displays the communication status between AV control unit (master unit) and each unit.
- The error counter displays “OK” if any malfunction was not detected in the past and displays “0” if a malfunction is detected. It increases by 1 if the condition is normal at the next ignition switch ON cycle. The upper limit of the counter is 39.
- The error counter is erased if “Reset” is pressed.

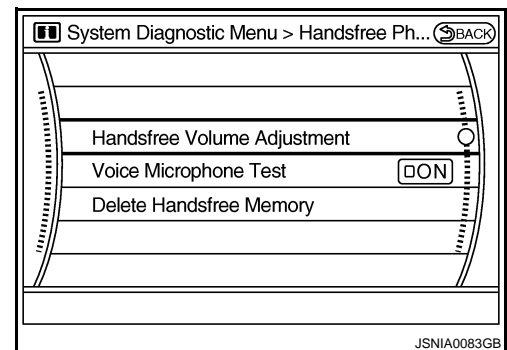
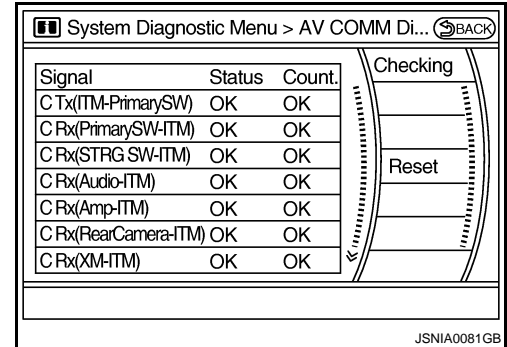
Items	Status (Current)	Counter (Past)
C Tx(ITM-PrimarySW)	OK / UNKWN	OK / 0 – 39
C Rx(PrimarySW-ITM)	OK / UNKWN	OK / 0 – 39
C Rx(STRG SW-ITM)	OK / UNKWN	OK / 0 – 39
C Rx (Audio-ITM)	OK / UNKWN	OK / 0 – 39
C Rx(Amp-ITM)	OK / UNKWN	OK / 0 – 39
C Rx(RearCamera-ITM)	OK / UNKWN	OK / 0 – 39
C Rx(XM-ITM)	OK / UNKWN	OK / 0 – 39
C Rx(iPod-ITM)	OK / UNKWN	OK / 0 – 39
C Rx(Amp-Audio)	—	—
C Rx(iPod-Audio)	OK / UNKWN	OK / 0 – 39
C Tx(Audio-ITM)	OK / UNKWN	OK / 0 – 39

NOTE:

- Any units with “—” displayed have no history of vehicle connection.
- “Audio” and “Amp” indicate the same status because “Amp” indicates the status of the amplifier integrated in the AV control unit.
- “STRG SW”, “Amp”“XM” indicate the same status as “Audio”.

Hands-Free Phone

The hands-free phone reception volume adjustment, microphone and speaker test, and memory erase functions are also available.



Camera Cont.

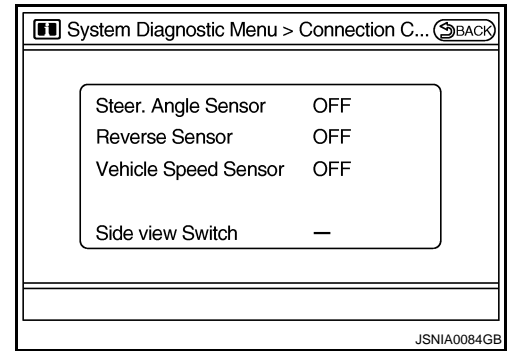
The two functions of “Connection Confirmation” and “Adjust Offset of Rear View Camera” are available.
CONNECTION CONFIRMATION

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

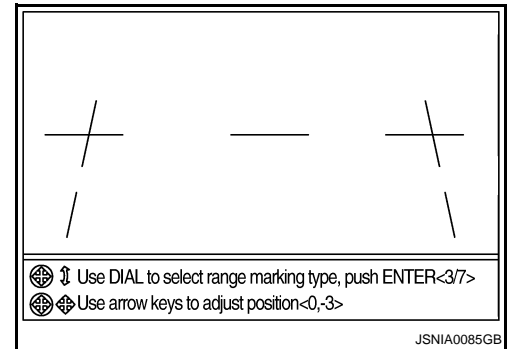
The steering angle sensor, reverse signal and vehicle speed sensor can be inspected.



Diagnosis item	Display	Vehicle status
Steer. Angle Sensor	ON	When steering the vehicle with ignition switch ON (remains ON until connection mode is stopped when it is turned ON)
	OFF	<ul style="list-style-type: none"> Ignition switch at ACC No steering with ignition switch ON
	—	Malfunction detected in camera connection recognition signal
Reverse Sensor	ON	Selector lever is in "R" with ignition switch ON.
	OFF	<ul style="list-style-type: none"> Ignition switch at ACC Selector lever is in position other than "R" with ignition switch ON.
	—	Malfunction detected in camera-connection recognition signal
Vehicle Speed Sensor	ON	Vehicle speed is more than 0 km/h (0 MPH) with ignition switch ON
	OFF	<ul style="list-style-type: none"> Ignition switch at ACC Vehicle speed is 0 km/h (0 MPH) with ignition switch ON
	—	Malfunction detected in camera connection recognition signal
Side view Switch	—	Not used

ADJUST OFFSET OF REAR VIEW CAMERA

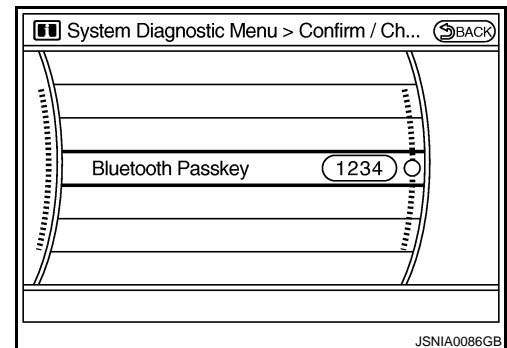
Use this mode to adjust the guide line display position of the rear-view monitor if necessary after removing the rear view monitor camera.



Bluetooth

Passkey confirmation/change

- The passkey of Bluetooth can be confirmed and changed.
- The passkey can be changed by four digits within 0 to 9.



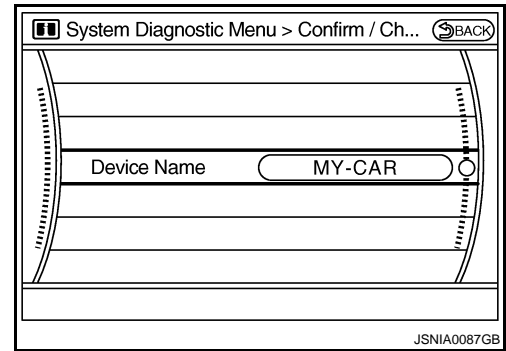
Device name check/change

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

[BOSE AUDIO WITH NAVIGATION]

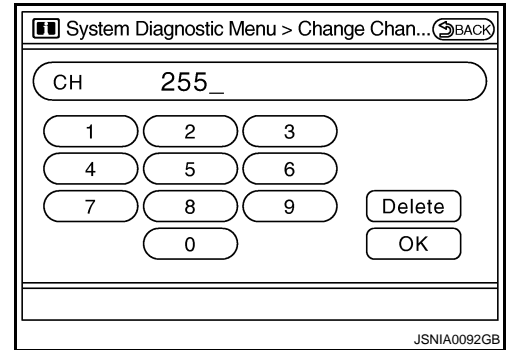
< FUNCTION DIAGNOSIS >

- The device name of Bluetooth can be confirmed and changed.
- The device name can be changed by sixteen digits within A to Z (small character can be used) and - (hyphen).

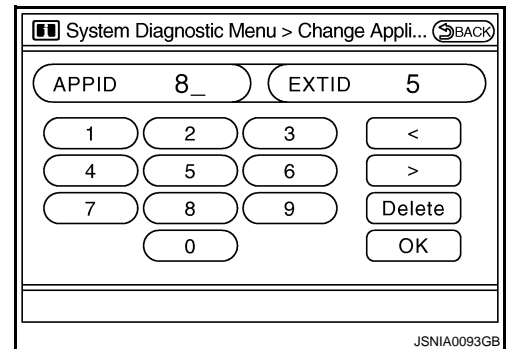


SAT

- Change Channel
- Any necessary channels required to receive traffic information from the satellite radio system can be set.

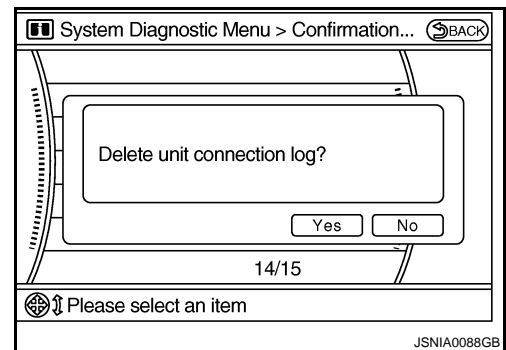


- Change Application ID
- Any application ID's required to receive traffic information from the satellite radio system can be set.



Delete Unit Connection Log

Deletes any unit connection records and error records from the AV control unit memory. (Clear the records of the unit that has been removed.)



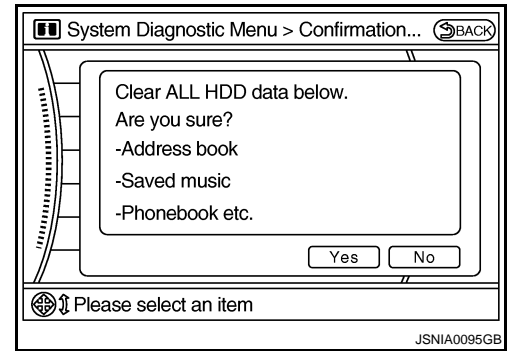
Initialize Settings

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Deletes data stored in HDD.



CONSULT - III Function (MULTI AV)

INFOID:000000001558787

CONSULT-III FUNCTIONS

CONSULT-III performs the following functions via the communication with the AV control unit.

Diagnosis mode	Description
Ecu Identification	The part number of AV control unit can be checked.
Self Diagnostic Result	Performs a diagnosis on the AV control unit and a connection diagnosis for the communication circuit of the Multi AV system, and displays the current and past malfunctions collectively.
Data Monitor	The diagnosis of vehicle signal that is input to the AV control unit can be performed.

AV COMMUNICATION

When "AV communication" of "CAN Diag Support Monitor" is selected, the following function will be performed.

AV communication	AV&NAVI C/U	Displays the communication status from AV control unit to each unit as well as the error counter.
	AUDIO	Displays the AV control unit communication status and the error counter.

ECU IDENTIFICATION

The part number of AV control unit is displayed.

SELF DIAGNOSIS RESULT

- In CONSULT-III self-diagnosis, self-diagnosis results and error history are displayed collectively.
- The current malfunction indicates "CRNT". The past malfunction indicates "PAST".
- The timing is displayed as "0" if any of the error codes [U1000], [U1010], [U1300] and [U1310] is detected. The counter increases by 1 if the condition is normal at the next ignition switch ON cycle.

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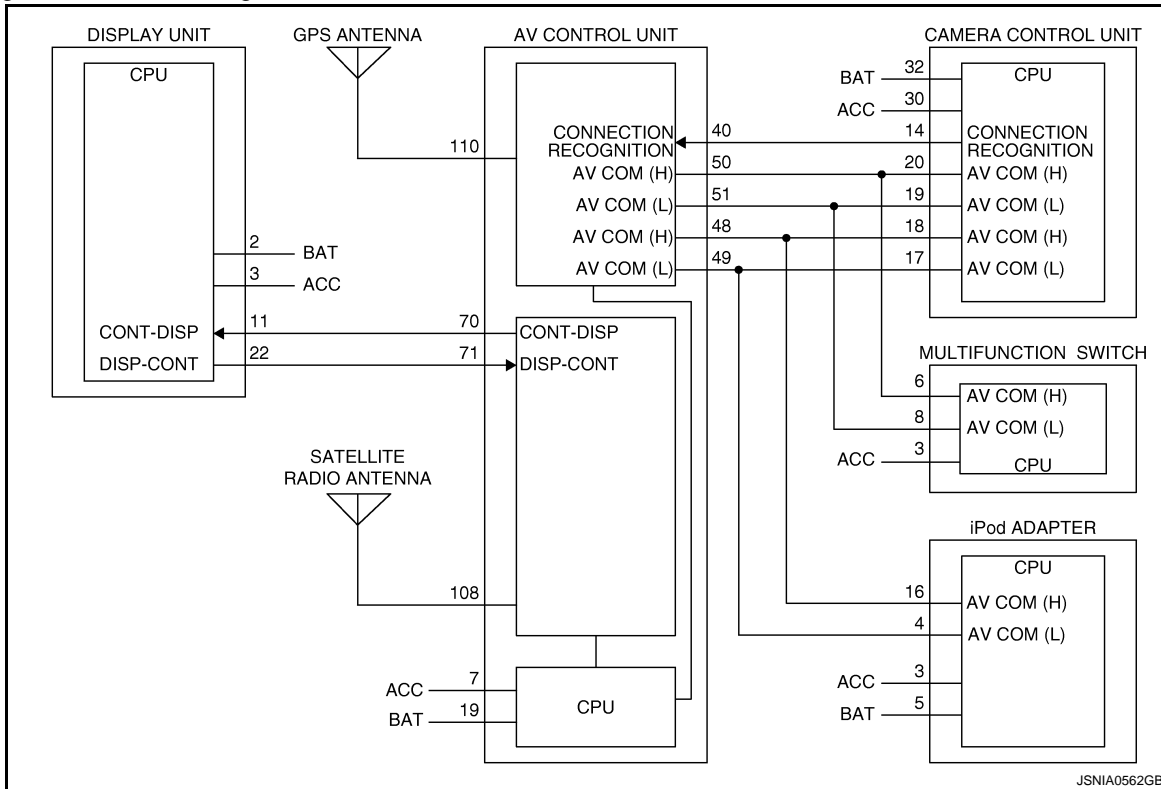
AV

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Self-diagnosis detection range



Self-diagnosis results display item

Error item	Description	Possible malfunction factor/Action to take
CAN COMM CIRCUIT[U1000]	CAN communication malfunction is detected.	Perform diagnosis with CONSULT-III, and then repair the malfunctioning parts according to the diagnosis results. Refer to AV-403, "CONSULT - III Function (MULTI AV)".
CONTROL UNIT (CAN) [U1010]	CAN initial diagnosis malfunction is detected.	
CONTROL UNIT (AV) [U1310]	AV communication circuit initial diagnosis malfunction is detected.	Replace the AV control unit.
Control Unit FLASH-ROM [U1200]	AV control unit malfunction is detected.	
Gyro NO CONN [U1201]		
CAN CONT [U1216]		
BLUETOOTH CONN [U1217]		
HDD CONN [U1218]		
HDD READ [U1219]		
XM SERIAL COMM [U1220]		
HDD WRITE [U121A]		
HDD COMM [U121B]		
HDD ACCESS [U121C]		
DSP CONN [U121D]		
DSP COMM [U121E]		
INTERNAL COMM [U121F]		AV control unit power supply and ground circuits.

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Error item	Description	Possible malfunction factor/Action to take
GPS COMM [U1204]	GPS malfunction is detected.	An intermittent error caused by strong radio interference may be detected unless any symptom (GPS reception error, etc.) occurs. Replace the AV control unit if the malfunction occurs constantly.
GPS ROM [U1205]		
GPS RAM [U1206]		
GPS RTC [U1207]		
FRONT DISP CONN [U1243]	<ul style="list-style-type: none"> • Display unit power supply and ground circuits malfunction is detected. • Malfunction is detected in communication circuits between AV control unit and display unit. • Malfunction is detected in communication signal between AV control unit and display unit. 	<ul style="list-style-type: none"> • Display unit power supply and ground circuits. • Communication circuits between AV control unit and AV display unit.
GPS ANTENNA CONN [U1244]	GPS antenna connection malfunction is detected.	GPS antenna.
CAMERA CONT CONN [U1250]	Malfunction is detected in camera connection recognition circuit between AV control unit and camera control unit.	Camera-connection recognition circuit between AV control unit and camera control unit.
XM ANTENNA CONN [U1258]	Poor connection is detected in satellite radio antenna.	<ul style="list-style-type: none"> • Satellite radio antenna feeder. • Satellite radio antenna.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • INTERNAL COMM [U121F] 	<ul style="list-style-type: none"> • AV control unit power supply and ground circuits. • AV control unit malfunction is detected. 	AV control unit power supply and ground circuits.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuits malfunction is detected. • Malfunction is detected in AV communication circuits between AV control unit and multifunction switch. • Malfunction is detected in AV communication signal between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuits. • AV communication circuit between AV control unit and multifunction switch.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • REAR CAMERA LAN CONN [U1252] 	<ul style="list-style-type: none"> • Camera control unit power supply and ground circuits malfunction is detected. • Malfunction is detected in AV communication signal between AV control unit and camera control unit. 	Camera control unit power supply and ground circuits.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • IPod CONN [U1254] 	<ul style="list-style-type: none"> • iPod adapter power supply and ground circuits malfunction is detected • Malfunction is detected in AV communication circuits between camera control unit and iPod adapter • Malfunction is detected in AV communication signal between AV control unit and iPod adapter 	<ul style="list-style-type: none"> • iPod adapter power supply and ground circuits • AV communication circuits between camera control unit and iPod adapter
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • REAR CAMERA LAN CONN [U1252] • IPod CONN [U1254] 	Malfunction is detected in AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.	AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.
<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • REAR CAMERA LAN CONN [U1252] • IPod CONN [U1254] 	Malfunction is detected in AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.	AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.

DATA MONITOR

ALL SIGNALS

- Displays the status of the following vehicle signals inputted into the AV control unit.
- For each signal, actual signal can be compared with the condition recognized on the system.

DIAGNOSIS SYSTEM (AV CONTROL UNIT)

< FUNCTION DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Display Item	Display	Vehicle status	Remarks	
VHCL SPD SIG	On	Vehicle speed >0 km/h (0 MPH)	Changes in indication may be delayed. This is normal.	
	Off	Vehicle speed =0 km/h (0 MPH)		
PKB SIG	On	Parking brake is applied.		
	Off	Parking brake is released.		
ILLUM SIG	On	Block the light beam from the auto light optical sensor when the light SW is ON.	—	
	Off	Expose the auto light optical sensor to light when the light SW is OFF or ON.		
IGN SIG	On	Ignition switch ON		
	Off	Ignition switch in ACC position		
REV SIG	On	Selector lever in R position		Changes in indication may be delayed. This is normal.
	Off	Selector lever in any position other than R		

SELECTION FROM MENU

Allows the technician to select which vehicle signals should be displayed and displays the status of the selected vehicle signals.

Item to be selected	Description
VHCL SPD SIG	The same as when "ALL SIGNALS" is selected.
PKB SIG	
ILLUM SIG	
IGN SIG	
REV SIG	

U1000 CAN COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:000000001558788

CAN (Controller Area Network) is a serial communication line for real-time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independently). In CAN communication, control units are connected with 2 communication lines (CAN-H, CAN-L) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN Communication Signal Chart. Refer to [LAN-25, "CAN System Specification Chart"](#).

DTC Logic

INFOID:000000001558789

DTC DETECTION LOGIC

DTC	Display contents of CONSULT-III	Diagnostic item is detected when ...	Probable malfunction location
U1000	CAN COMM CIRCUIT	AV control unit is not transmitting or receiving CAN communication signal for 2 seconds or more.	CAN communication system.

Diagnosis Procedure

INFOID:000000001558790

1.PERFORM SELF-DIAGNOSTIC

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Check "Self Diagnostic Result" of "MULTI AV".

Is "CAN COMM CIRCUIT" displayed?

- YES >> Refer to "LAN system". Refer to [LAN-16, "Trouble Diagnosis Procedure"](#).
NO >> Refer to GI section. Refer to [GI-38, "Intermittent Incident"](#).

AV

U1010 CONTROL UNIT (CAN)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1010 CONTROL UNIT (CAN)

Description

INFOID:000000001558791

Initial diagnosis of AV control unit.

DTC Logic

INFOID:000000001558792

DTC DETECTION LOGIC

DTC	Display contents of CONSULT-III	Diagnostic item is detected when ...	Probable malfunction location
U1010	CONTROL UNIT (CAN)	CAN initial diagnosis malfunction is detected.	AV control unit.

Diagnosis Procedure

INFOID:000000001558793

1. REPLACE AV CONTROL UNIT

When DTC U1010 is detected, replace AV control unit.

>> INSPECTION END

U1310 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1310 AV CONTROL UNIT

Description

INFOID:000000001558794

Replace the AV control unit if this DTC is displayed. Refer to [AV-608, "Exploded View"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.• It inputs the illumination signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000001558795

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1310	CONTROL UNIT (AV) [U1310]	An initial diagnosis error is detected in AV communication circuit.	Replace AV control unit.

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AV

U1200 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1200 AV CONTROL UNIT

Description

INFOID:000000001733708

Replace the AV control unit if this DTC is displayed. Refer to [AV-608, "Exploded View"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.• It inputs the illumination signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000001558797

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1200	Cont Unit FLASH-ROM [U1200]	An internal malfunction is detected in AV control unit (FLASH-ROM).	Replace AV control unit.

U1201 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1201 AV CONTROL UNIT

Description

INFOID:000000001682739

Replace the AV control unit if this DTC is displayed. Refer to [AV-608, "Exploded View"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> Integrates HDD (hard disk drive) allowing map data and music data to be stored. It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit. The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio and vehicle information functions. It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function. It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function. It inputs the illumination signals that are required for the display dimming control. It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000001558799

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1201	GYRO NO CONN [U1201]	Internal malfunction of AV control unit (gyrocompass disconnection) is detected.	Replace AV control unit.

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U1216 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1216 AV CONTROL UNIT

Description

INFOID:000000001682740

Replace the AV control unit if this DTC is displayed. Refer to [AV-608. "Exploded View"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.• It inputs the illumination signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000001558801

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1216	CAN CONT [U1216]	Internal malfunction of AV control unit (CAN controller) is detected.	Replace AV control unit.

U1217 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1217 AV CONTROL UNIT

Description

INFOID:000000001682741

Replace the AV control unit if this DTC is displayed. Refer to [AV-608, "Exploded View"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">Integrates HDD (hard disk drive) allowing map data and music data to be stored.It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio and vehicle information functions.It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.It inputs the illumination signals that are required for the display dimming control.It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000001558803

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1217	BLUETOOTH MODULE CONN [U1217]	Internal malfunction of AV control unit (Bluetooth module connection malfunction) is detected.	Replace AV control unit.

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U1218 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1218 AV CONTROL UNIT

Description

INFOID:000000001682742

Replace the AV control unit if this DTC is displayed. Refer to [AV-608. "Exploded View"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.• It inputs the illumination signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000001558805

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1218	HDD-CONN [U1218]	Internal malfunction of AV control unit (HDD connection malfunction) is detected.	Replace AV control unit.

U1219 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1219 AV CONTROL UNIT

Description

INFOID:000000001682743

Replace the AV control unit if this DTC is displayed. Refer to [AV-608, "Exploded View"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.• It inputs the illumination signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000001558807

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1219	HDD-READ [U1219]	Internal malfunction of AV control unit (HDD read malfunction) is detected.	Replace AV control unit.

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AV

U1220 AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1220 AV CONTROL UNIT

Description

INFOID:000000001682744

Replace the AV control unit if this DTC is displayed. Refer to [AV-608. "Exploded View"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.• It inputs the illumination signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000001558809

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1220	XM SERIAL COMM [U1220]	Internal malfunction of AV control unit (satellite radio tuner communication error) is detected.	Replace AV control unit.

U121A AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U121A AV CONTROL UNIT

Description

INFOID:000000001682745

Replace the AV control unit if this DTC is displayed. Refer to [AV-608, "Exploded View"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">Integrates HDD (hard disk drive) allowing map data and music data to be stored.It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio and vehicle information functions.It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.It inputs the illumination signals that are required for the display dimming control.It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000001558811

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U121A	HDD-WRITE [U121A]	Internal malfunction of AV control unit (HDD write malfunction) is detected.	Replace AV control unit.

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U121B AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U121B AV CONTROL UNIT

Description

INFOID:000000001682746

Replace the AV control unit if this DTC is displayed. Refer to [AV-608. "Exploded View"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.• It inputs the illumination signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000001558813

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U121B	HDD-COMM [U121B]	Internal malfunction of AV control unit (HDD communication error) is detected.	Replace AV control unit.

U121C AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U121C AV CONTROL UNIT

Description

INFOID:000000001682747

Replace the AV control unit if this DTC is displayed. Refer to [AV-608, "Exploded View"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">Integrates HDD (hard disk drive) allowing map data and music data to be stored.It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio and vehicle information functions.It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.It inputs the illumination signals that are required for the display dimming control.It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000001558815

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U121C	HDD-ACCESS [U121C]	Internal malfunction of AV control unit (HDD access error) is detected.	Replace AV control unit.

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AV

U121D AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U121D AV CONTROL UNIT

Description

INFOID:000000001682748

Replace the AV control unit if this DTC is displayed. Refer to [AV-608. "Exploded View"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">• Integrates HDD (hard disk drive) allowing map data and music data to be stored.• It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.• The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio and vehicle information functions.• It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.• It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.• It inputs the illumination signals that are required for the display dimming control.• It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000001558817

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U121D	DSP CONN [U121D]	Internal malfunction of AV control unit (DSP connection error) is detected.	Replace AV control unit.

U121E AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U121E AV CONTROL UNIT

Description

INFOID:000000001682750

Replace the AV control unit if this DTC is displayed. Refer to [AV-608, "Exploded View"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">Integrates HDD (hard disk drive) allowing map data and music data to be stored.It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio and vehicle information functions.It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.It inputs the illumination signals that are required for the display dimming control.It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000001558819

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U121E	DSP COMM [U121E]	Internal malfunction of AV control unit (DSP communication error) is detected.	Replace AV control unit.

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AV

U121F AV CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U121F AV CONTROL UNIT

Description

INFOID:000000001682749

Replace the AV control unit if this DTC is displayed. Refer to [AV-608. "Exploded View"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">Integrates HDD (hard disk drive) allowing map data and music data to be stored.It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio and vehicle information functions.It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.It inputs the illumination signals that are required for the display dimming control.It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000001558821

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U121F	INTERNAL COMM [U121F]	Internal malfunction of AV control unit (internal communication error) is detected.	AV control unit power supply and ground circuit.

Diagnosis Procedure

INFOID:000000001558822

1. CHECK AV CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check AV control unit power supply and ground circuit. Refer to [AV-433. "AV CONTROL UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace malfunctioning parts.

U1204 GPS

Description

INFOID:000000001682751

Replace the AV control unit if this DTC is displayed. Refer to [AV-608, "Exploded View"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> Integrates HDD (hard disk drive) allowing map data and music data to be stored. It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit. The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio and vehicle information functions. It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function. It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function. It inputs the illumination signals that are required for the display dimming control. It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000001558824

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1204	GPS CONN [U1204]	Internal malfunction of AV control unit (GPS malfunction) is detected.	Replace AV control unit.

Diagnosis Procedure

INFOID:000000001558825

1. PERFORM THE SELF-DIAGNOSIS

- Delete the self-diagnosis results. Turn ignition switch OFF.
- Turn ignition switch ON. Perform the self-diagnosis again.
- Check that the DTC is detected again.

Is any DTC detected?

- YES >> Replace AV control unit.
- NO >> The intermittent malfunction caused by strong radio interference can be detected.

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U1205 GPS

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1205 GPS

Description

INFOID:000000001682752

Replace the AV control unit if this DTC is displayed. Refer to [AV-608, "Exploded View"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none">Integrates HDD (hard disk drive) allowing map data and music data to be stored.It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit.The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio and vehicle information functions.It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function.It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function.It inputs the illumination signals that are required for the display dimming control.It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000001558827

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1205	GPS ROM [U1205]	Internal malfunction of AV control unit (GPS malfunction) is detected.	Replace AV control unit.

Diagnosis Procedure

INFOID:000000001558828

1. PERFORM THE SELF-DIAGNOSIS

- Delete the self-diagnosis results. Turn ignition switch OFF.
- Turn ignition switch ON. Perform the self-diagnosis again.
- Check that the DTC is detected again.

Is any DTC detected?

- YES >> Replace AV control unit.
NO >> The intermittent malfunction caused by strong radio interference can be detected.

U1206 GPS

Description

INFOID:000000001682753

Replace the AV control unit if this DTC is displayed. Refer to [AV-608, "Exploded View"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> Integrates HDD (hard disk drive) allowing map data and music data to be stored. It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit. The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio and vehicle information functions. It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function. It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function. It inputs the illumination signals that are required for the display dimming control. It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000001558830

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1206	GPS RAM [U1206]	Internal malfunction of AV control unit (GPS malfunction) is detected.	Replace AV control unit.

Diagnosis Procedure

INFOID:000000001558831

1. PERFORM THE SELF-DIAGNOSIS

- Delete the self-diagnosis results. Turn ignition switch OFF.
- Turn ignition switch ON. Perform the self-diagnosis again.
- Check that the DTC is detected again.

Is any DTC detected?

- YES >> Replace AV control unit.
- NO >> The intermittent malfunction caused by strong radio interference can be detected.

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AV

U1207 GPS

Description

INFOID:000000001682754

Replace the AV control unit if this DTC is displayed. Refer to [AV-608. "Exploded View"](#).

Part name	Description
AV CONTROL UNIT	<ul style="list-style-type: none"> Integrates HDD (hard disk drive) allowing map data and music data to be stored. It is the master unit of the MULTI AV system, and it is connected to each control unit by communication. It operates each system according to communication signals from the AV control unit. The AV control unit includes the audio, hands-free phone, voice control, navigation, satellite radio and vehicle information functions. It is connected to ECM and unified meter and A/C amp. via CAN communication to obtain necessary information for the vehicle information function. It is connected to BCM via CAN communication transmitting/receiving for the vehicle settings function. It inputs the illumination signals that are required for the display dimming control. It inputs the signals for driving status recognition (vehicle speed, reverse and parking brake).

DTC Logic

INFOID:000000001558833

DTC	Display contents of CONSULT-III	DTC Detection Condition	Action to take
U1207	GPS RTC [U1207]	Internal malfunction of AV control unit (GPS malfunction) is detected.	Replace AV control unit.

Diagnosis Procedure

INFOID:000000001558834

1. PERFORM THE SELF-DIAGNOSIS

- Delete the self-diagnosis results. Turn ignition switch OFF.
- Turn ignition switch ON. Perform the self-diagnosis again.
- Check that the DTC is detected again.

Is any DTC detected?

- YES >> Replace AV control unit.
- NO >> The intermittent malfunction caused by strong radio interference can be detected.

U1243 DISPLAY UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1243 DISPLAY UNIT

Description

INFOID:000000001558835

Part name	Description
DISPLAY UNIT	<ul style="list-style-type: none">• Display image is controlled by the serial communication from AV control unit.• RGB image signal is input from AV control unit (RGB, RGB area and RGB synchronizing). Auxiliary image signal is input from the auxiliary input jack. Camera image signal is input from the camera control unit.• Synchronize signal (HP, VP) is output to AV control unit.• Touch panel function can be operated for each system by touching a display directly.

DTC Logic

INFOID:000000001558836

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1243	FRONT DISP CONN [U1243]	<ul style="list-style-type: none">• Display unit power supply and ground circuit malfunction is detected• Malfunction is detected in communication circuit between AV control unit and display unit• Malfunction is detected in communication signal between AV control unit and display unit	<ul style="list-style-type: none">• Display unit power supply and ground circuit.• Communication circuit between AV control unit and display unit.

Diagnosis Procedure

INFOID:000000001558837

1.CHECK DISPLAY UNIT POWER SUPPLY AND GROUND CIRCUIT

Check display unit power supply and ground circuit. Refer to [AV-433, "DISPLAY UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

2.CHECK CONTINUITY COMMUNICATION CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminals 11, 22 and AV control unit harness connector terminals 70, 71.

11 - 70 : Continuity should exist.

22 - 71 : Continuity should exist.

4. Check continuity between display unit harness connector terminals 11, 22 and ground.

11, 22 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

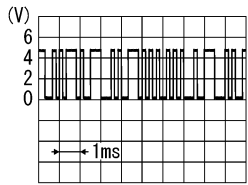
3.CHECK COMMUNICATION SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 11 and ground.

U1243 DISPLAY UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

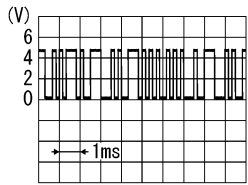
Terminal	Condition	Reference value
11 - Ground	Ignition switch ON When adjusting display brightness.	 <p style="text-align: right; font-size: small;">PKIB5039J</p>

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Replace AV control unit.

4. CHECK COMMUNICATION SIGNAL

Check signal between display unit harness connector terminal 22 and ground.

Terminal	Condition	Reference value
22 - Ground	Ignition switch ON When adjusting display brightness.	 <p style="text-align: right; font-size: small;">PKIB5039J</p>

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace display unit.

U1244 GPS ANTENNA

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1244 GPS ANTENNA

Description

INFOID:000000001558838

Part name	Description
GPS ANTENNA	GPS signal is received and transmitted to AV control unit.

DTC Logic

INFOID:000000001558839

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1244	GPS ANETNNA CONN [U1244]	GPS antenna connection malfunction is detected.	GPS antenna disconnection.

Diagnosis Procedure

INFOID:000000001558840

1. GPS ANTENNA CHECK

Visually check GPS antenna and antenna feeder.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

2. CHECK AV CONTROL UNIT VOLTAGE

1. Disconnect GPS antenna connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit terminal 110 and ground.

110 - Ground : Approx. 5 V

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace AV control unit.

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AV

U1250 CAMERA CONTROL UNIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1250 CAMERA CONTROL UNIT

Description

INFOID:000000001558841

Part name	Description
CAMERA CONTROL UNIT	<ul style="list-style-type: none">• Camera image signal is input from rear view camera, and camera image is indicated on the display.• Power (camera ON signal) is transmitted to rear view camera.• Controlled by AV communication transmitted from AV control unit.• AV control unit recognizes the presence of camera system with camera connection recognition signal.

DTC Logic

INFOID:000000001558842

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1250	CAMERA CONT. CONN [U1250]	Malfunction is detected in Camera-connection recognition signal circuit.	Camera-connection recognition signal circuit.

Diagnosis Procedure

INFOID:000000001558843

1. CHECK CAMERA-CONNECTION RECOGNITION SIGNAL CIRCUIT

1. Disconnect AV control unit connector and camera control unit connector.
2. Check continuity between AV control unit harness connector terminal 40 and camera control unit harness connector terminal 14.

40 - 14 : Continuity should exist.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair harness or connector.

2. CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector terminal 40 and ground.

40 - Ground : Approx. 5 V

Is the inspection result normal?

- YES >> Replace camera control unit.
NO >> Replace AV control unit.

U1258 SATELLITE RADIO ANTENNA

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1258 SATELLITE RADIO ANTENNA

Description

INFOID:000000001558847

Part name	Description
SATELLITE RADIO ANTENNA	Satellite radio signal is received and transmitted to AV control unit.

DTC Logic

INFOID:000000001558848

DTC	Display contents of CONSULT-III	DTC Detection Condition	Possible causes
U1258	XM ANTENNA CONN [U1258]	Satellite radio antenna connection malfunction is detected.	Satellite radio antenna disconnection.

Diagnosis Procedure

INFOID:000000001558849

1. SATELLITE RADIO ANTENNA CHECK

Visually check satellite radio antenna and antenna feeder.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair malfunctioning parts.

2. CHECK AV CONTROL UNIT VOLTAGE

1. Disconnect satellite radio antenna connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit terminal 108 and ground.

108 - Ground : Approx. 5 V

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace AV control unit.

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AV

U1300 AV COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

U1300 AV COMM CIRCUIT

Description

INFOID:000000001558850

U1300 is indicated when malfunction occurs in communication signal of multi AV system. Indicated simultaneously, without fail, with the malfunction of control units connected to AV control unit with communication line. Determine the possible malfunction cause from the table below.

SELF-DIAGNOSIS RESULTS DISPLAY ITEM

DTC	Display contents of CONSULT-III	Description	Possible malfunction factor/Action to take
U1300 U121F	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • INTERNAL COMM [U121F] 	<ul style="list-style-type: none"> • Malfunction is detected in AV control unit power supply and ground circuits. • AV control unit malfunction is detected. 	<ul style="list-style-type: none"> • AV control unit power supply and ground circuits. • When there is no malfunction, AV control unit is malfunctioning.
U1300 U1240	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuits malfunction is detected. • Malfunction is detected in AV communication circuits between AV control unit and multifunction switch. • Malfunction is detected in AV communication signal between AV control unit and multifunction switch. 	<ul style="list-style-type: none"> • Multifunction switch power supply and ground circuits. • AV communication circuits between AV control unit and multifunction switch.
U1300 U1252	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • REAR CAMERA LAN CONN [U1252] 	<ul style="list-style-type: none"> • Malfunction is detected in camera control unit power supply and ground circuits. • Malfunction is detected in AV communication signal between AV control unit and camera control unit. 	Camera control unit power supply and ground circuits.
U1300 U1254	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • IPOD CONN [U1254] 	<ul style="list-style-type: none"> • iPod adapter power supply and ground circuits malfunction is detected. • Malfunction is detected in AV communication circuits between camera control unit and iPod adapter. • Malfunction is detected in AV communication signal between AV control unit and iPod adapter 	<ul style="list-style-type: none"> • iPod adapter power supply and ground circuits. • AV communication circuits between camera control unit and iPod adapter.
U1300 U1252 U1254	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • REAR CAMERA LAN CONN [U1252] • IPOD CONN [U1254] 	Malfunction is detected in AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.	AV communication circuits between camera control unit and the junction of AV control unit and multifunction switch.
U1300 U1240 U1252 U1254	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • REAR CAMERA LAN CONN [U1252] • IPOD CONN [U1254] 	Malfunction is detected in AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.	AV communication circuits between AV control unit and the junction of camera control unit and multifunction switch.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

POWER SUPPLY AND GROUND CIRCUIT

AV CONTROL UNIT

AV CONTROL UNIT : Diagnosis Procedure

INFOID:000000001558851

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	34
Ignition switch ACC or ON	19
Ignition switch ON or START	3

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between AV control unit harness connectors and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	M80	19	OFF	12 V
	M87	22		
		24		
ACC power supply	M80	7	ACC	12 V
	M87	25		
Ignition signal	M87	35	ON	12 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between AV control unit and fuse.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect AV control unit connectors.
3. Check continuity between AV control unit harness connectors and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	M87	21	OFF	Existed
		23		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

DISPLAY UNIT

DISPLAY UNIT : Diagnosis Procedure

INFOID:000000001558852

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	34
Ignition switch ACC or ON	19

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AV

POWER SUPPLY AND GROUND CIRCUIT

[BOSE AUDIO WITH NAVIGATION]

< COMPONENT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between display unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	M75	2	OFF	12 V
ACC power supply	M75	3	ACC	12 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between Display unit and fuse.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector.
3. Check continuity between display unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	M75	1	OFF	Existed
		13		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

MULTIFUNCTION SWITCH

MULTIFUNCTION SWITCH : Diagnosis Procedure

INFOID:000000001558853

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Ignition switch ACC or ON	19

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between multifunction switch harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
ACC power supply	M72	3	ACC	12 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between multifunction switch and fuse.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect multifunction switch connector.
3. Check continuity between multifunction switch harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	M72	1	OFF	Existed

POWER SUPPLY AND GROUND CIRCUIT

[BOSE AUDIO WITH NAVIGATION]

< COMPONENT DIAGNOSIS >

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

CAMERA CONTROL UNIT

CAMERA CONTROL UNIT : Diagnosis Procedure

INFOID:000000001558854

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	34
Ignition switch ACC or ON	19

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between camera control unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	B241	32	OFF	12 V
ACC power supply	B241	30	ACC	12 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between camera control unit and fuse.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector.
3. Check continuity between camera control unit harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B241	31	OFF	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

BOSE AMP.

BOSE AMP. : Diagnosis Procedure

INFOID:000000001558855

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	5, 8

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between BOSE amp. harness connector and ground.

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AV

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	B42	10	OFF	12 V
		11		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between BOSE amp. and fuse.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BOSE amp. connector.
3. Check continuity between BOSE amp. harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B42	7	OFF	Existed
		12		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

WOOFER AMP.

WOOFER AMP. : Diagnosis Procedure

INFOID:000000001678960

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	34

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between woofer amp. harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	B43	7	OFF	12 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between woofer amp. and fuse.

3.CHECK GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect woofer amp. connector.
3. Check continuity between woofer amp. harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Continuity
Ground	B43	10	OFF	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

iPod ADAPTER

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

iPod ADAPTER : Diagnosis Procedure

INFOID:000000001558857

1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	34
Ignition switch ACC or ON	19

Is the inspection result normal?

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

2.CHECK POWER SUPPLY CIRCUIT

Check voltage between iPod adapter harness connector and ground.

Signal name	Connector No.	Terminal No.	Ignition switch position	Value (Approx.)
Battery power supply	M111	5	OFF	12 V
ACC power supply	M111	3	ACC	12 V

Is the inspection result normal?

YES >> INSPECTION END

NO >> Check harness between iPod adapter and fuse.

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AV

RGB (R: RED) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

RGB (R: RED) SIGNAL CIRCUIT

Description

INFOID:000000001558859

Transmit the image displayed with AV control unit with RGB signal to the display unit.

Diagnosis Procedure

INFOID:000000001558860

1. CHECK CONTINUITY RGB (R: RED) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 17 and AV control unit harness connector terminal 61.

17 - 61 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 17 and ground.

17 - Ground : Continuity should not exist.

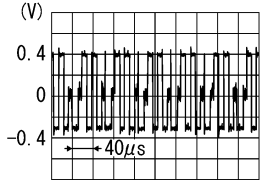
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK RGB (R: RED) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 17 and ground.

Terminal	Condition		Reference value
17 - Ground	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 SKIB2238J

Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

RGB (G: GREEN) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

RGB (G: GREEN) SIGNAL CIRCUIT

Description

INFOID:000000001558861

Transmit the image displayed with AV control unit with RGB signal to the display unit.

Diagnosis Procedure

INFOID:000000001558862

1. CHECK CONTINUITY RGB (G: GREEN) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 6 and AV control unit harness connector terminal 62.

6 - 62 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 6 and ground.

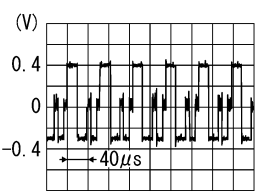
6 - Ground : Continuity should not exist.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair harness or connector.

2. CHECK RGB (G: GREEN) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 6 and ground.

Terminal	Condition		Reference value
6 - Ground	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 SKIB2236J

Is the inspection result normal?

- YES >> Replace display unit.
NO >> Replace AV control unit.

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AV

RGB (B: BLUE) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

RGB (B: BLUE) SIGNAL CIRCUIT

Description

INFOID:000000001558863

Transmit the image displayed with AV control unit with RGB signal to the display unit.

Diagnosis Procedure

INFOID:000000001558864

1. CHECK CONTINUITY RGB (B: BLUE) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 18 and AV control unit harness connector terminal 63.

18 - 63 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 18 and ground.

18 - Ground : Continuity should not exist.

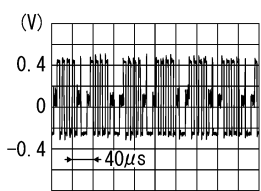
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK RGB (B: BLUE) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 18 and ground.

Terminal	Condition		Reference value
18 - Ground	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 SKIB2237J

Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

RGB SYNCHRONIZING SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

RGB SYNCHRONIZING SIGNAL CIRCUIT

Description

INFOID:000000001558865

Transmit the RGB synchronizing signal to the display unit so as to synchronize the RGB image displayed with AV control unit.

Diagnosis Procedure

INFOID:000000001558866

1. CHECK CONTINUITY RGB SYNCHRONIZING SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 19 and AV control unit harness connector terminal 65.

19 - 65 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 19 and ground.

19 - Ground : Continuity should not exist.

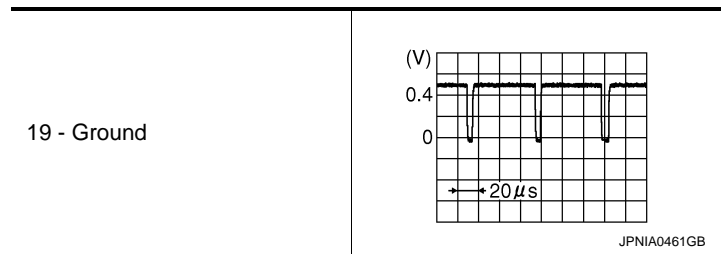
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK RGB SYNCHRONIZING SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 19 and ground.



Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace AV control unit.

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AV

RGB AREA (YS) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

RGB AREA (YS) SIGNAL CIRCUIT

Description

INFOID:000000001558867

Transmits the display area of RGB image displayed by AV control unit with RGB area (YS) signal to display unit.

Diagnosis Procedure

INFOID:000000001558868

1. CHECK CONTINUITY RGB AREA (YS) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 9 and AV control unit harness connector terminal 67.

9 - 67 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 9 and ground.

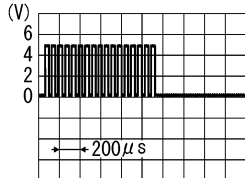
9 - Ground : Continuity should not exist.

Is the inspection result normal?

- YES >> GO TO 2.
 NO >> Repair harness or connector.

2. CHECK RGB AREA (YS) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 9 and ground.

Terminal	Condition		Reference value
9 - Ground	Ignition switch ON	At RGB image displayed	: Approx. 5 V
		At rear view camera image is displayed.	 <p style="text-align: right;">PKIB4948J</p>

Is the inspection result normal?

- YES >> Replace display unit.
 NO >> Replace AV control unit.

HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

Description

INFOID:000000001558869

In composite image (AUX image, camera image), transmit the vertical synchronizing (VP) signal and horizontal synchronizing (HP) signal from display unit to AV control unit so as to synchronize the RGB images displayed with AV control unit such as the image quality adjusting menu, etc.

Diagnosis Procedure

INFOID:000000001558870

1. CHECK CONTINUITY HORIZONTAL SYNCHRONIZING (HP) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 8 and AV control unit harness connector terminal 68.

8 - 68 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 8 and ground.

8 - Ground : Continuity should not exist.

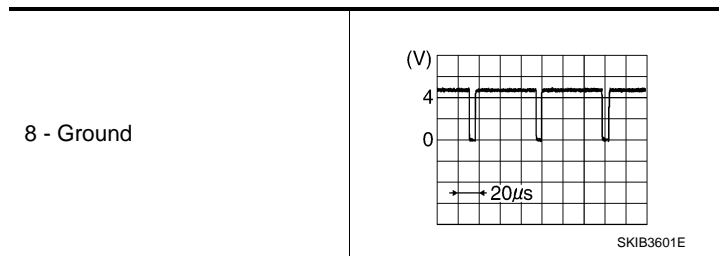
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK HORIZONTAL SYNCHRONIZING (HP) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 8 and ground.



Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace display unit.

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AV

VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

Description

INFOID:000000001558871

In composite image (AUX image, camera image), transmit the vertical synchronizing (VP) signal and horizontal synchronizing (HP) signal from display unit to AV control unit so as to synchronize the RGB images displayed with AV control unit such as the image quality adjusting menu, etc.

Diagnosis Procedure

INFOID:000000001558872

1. CHECK CONTINUITY VERTICAL SYNCHRONIZING (VP) SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect display unit connector and AV control unit connector.
3. Check continuity between display unit harness connector terminal 20 and AV control unit harness connector terminal 69.

20 - 69 : Continuity should exist.

4. Check continuity between display unit harness connector terminal 20 and ground.

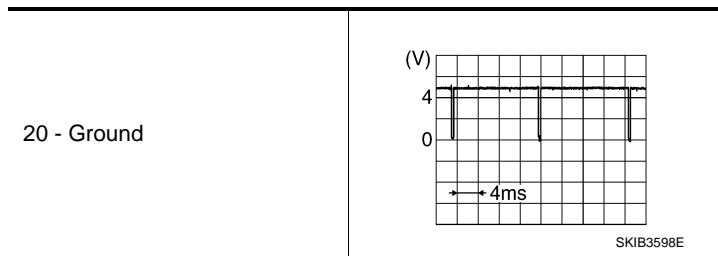
20 - Ground : Continuity should not exist.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair harness or connector.

2. CHECK VERTICAL SYNCHRONIZING (VP) SIGNAL

1. Connect display unit connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check signal between display unit harness connector terminal 20 and ground.



Is the inspection result normal?

- YES >> Replace AV control unit.
NO >> Replace display unit.

AUX IMAGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

AUX IMAGE SIGNAL CIRCUIT

Description

INFOID:000000001558873

Transmits the image signal of external device from auxiliary input jacks to display unit.

Diagnosis Procedure

INFOID:000000001558874

1. CHECK CONTINUITY AUX IMAGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect auxiliary input jacks connector and display unit connector.
3. Check continuity between auxiliary input jacks harness connector terminal 7 and display unit harness connector terminal 15.

7 - 15 : Continuity should exist.

4. Check continuity between auxiliary input jacks harness connector terminal 7 and ground.

7 - Ground : Continuity should not exist.

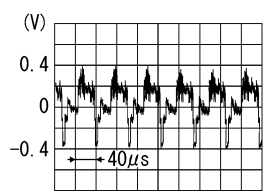
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK AUX IMAGE SIGNAL

1. Connect auxiliary input jacks connector and display unit connector.
2. Turn ignition switch ON.
3. Check signal between auxiliary input jacks harness connector terminal 7 and ground.

Terminal	Condition		Reference value
7 - Ground	Ignition switch ON	At AUX image is displayed.	 SKIB2251J

Is the inspection result normal?

YES >> Replace display unit.

NO >> Check that there is no malfunction in the external device.

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MODE CHANGE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

MODE CHANGE SIGNAL CIRCUIT

Description

INFOID:000000001907375

- AV control unit transmits the mode change signal to BOSE amp.
- Driver's Audio Stage controls the speaker's output characteristic by BOSE amp. so that the driver's seat is to be the center of sounds.

Diagnosis Procedure

INFOID:000000001907376

1. CHECK CONTINUITY MODE CHANGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BOSE amp. connector and AV control unit connector.
3. Check continuity between BOSE amp. harness connector terminal 37 and AV control unit harness connector terminal 44.

37 - 44 : Continuity should exist.

4. Check continuity between BOSE amp. harness connector terminal 37 and ground.

37 - Ground : Continuity should not exist.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair harness or connector.

2. CHECK MODE CHANGE SIGNAL

1. Connect BOSE amp. connector.
2. Turn ignition switch ON.
3. Check signal between BOSE amp. harness connector terminal 37 and ground.

Terminal	Condition	Reference value
37 - Ground	Ignition switch ON	8.5 V

Is the inspection result normal?

- YES >> Replace AV control unit.
NO >> Replace BOSE amp.

CD EJECT SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

CD EJECT SIGNAL CIRCUIT

Description

INFOID:000000001558875

The eject signal is output to AV control unit when the eject switch of multifunction switch is pressed.

Diagnosis Procedure

INFOID:000000001558876

1. CHECK CONTINUITY CD EJECT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect multifunction switch connector and AV control unit connector.
3. Check continuity between multifunction switch harness connector terminal 14 and AV control unit harness connector terminal 85.

14 - 85 : Continuity should exist.

4. Check continuity between multifunction switch harness connector terminal 14 and ground.

14 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK AV CONTROL UNIT VOLTAGE

1. Connect multifunction switch connector and AV control unit connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector terminal 85 and ground.

**85 - Ground Pressing the eject switch
: Approx. 0 V**

**85 - Ground Except for above
: Approx. 5 V**

Is the inspection result normal?

YES >> Replace preset switch.

NO >> Replace AV control unit.

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AV

MICROPHONE SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

MICROPHONE SIGNAL CIRCUIT

Description

INFOID:000000001558877

Supply power from AV control unit to microphone. The microphone transmits the sound/voice to the AV control unit.

Diagnosis Procedure

INFOID:000000001558878

1. CHECK CONTINUITY BETWEEN AV CONTROL UNIT AND MICROPHONE CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect AV control unit connector and microphone connector.
3. Check continuity between AV control unit harness connector terminals 26, 27, 28 and microphone harness connector terminals 4, 2, 1.

26 - 4 : Continuity should exist.

27 - 2 : Continuity should exist.

28 - 1 : Continuity should exist.

4. Check continuity between AV control unit harness connector terminals 26, 28 and ground.

26, 28 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK VOLTAGE MICROPHONE VCC

1. Connect AV control unit connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector terminals 26 and 27.

26 - 27 : Approx. 5 V

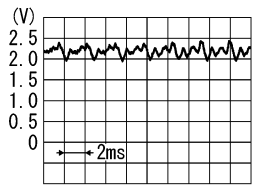
Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace AV control unit.

3. CHECK MICROPHONE SIGNAL

1. Connect microphone connector.
2. Check signal between AV control unit harness connector terminals 28 and 27.

Terminal	Condition		Reference value
28 - 27	Ignition switch ON	Give a voice.	 PKIB5037J

Is the inspection result normal?

YES >> Replace AV control unit.

NO >> Replace microphone.

CAMERA IMAGE SIGNAL CIRCUIT (REAR VIEW CAMERA TO CAMERA CONTROL UNIT)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

CAMERA IMAGE SIGNAL CIRCUIT (REAR VIEW CAMERA TO CAMERA CONTROL UNIT)

Description

INFOID:000000001558879

- Camera control unit outputs camera ON signal to rear view camera and inputs rear view camera image signal from rear view camera when the reverse signal is input.
- The camera control unit that inputs the camera image signal transmits the camera image signal to the display unit.

Diagnosis Procedure

INFOID:000000001558880

1. CHECK CONTINUITY CAMERA IMAGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and rear view camera connector.
3. Check continuity between camera control unit harness connector terminal 6 and rear view camera harness connector terminal 3.

6 - 3 : Continuity should exist.

4. Check continuity between camera control unit harness connector terminal 6 and ground.

6 - Ground : Continuity should not exist.

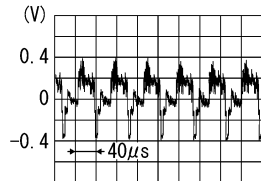
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK CAMERA IMAGE SIGNAL

1. Connect camera control unit connector and rear view camera connector.
2. Turn ignition switch ON.
3. Check signal between camera control unit harness connector terminal 6 and ground.

Terminal	Condition		Reference value
6 - Ground	Ignition switch ON	At rear view camera image is displayed.	 <p style="text-align: right; font-size: small;">SKIB2251J</p>

Is the inspection result normal?

YES >> Replace camera control unit.

NO >> Replace rear view camera.

AV

CAMERA ON SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

CAMERA ON SIGNAL CIRCUIT

Description

INFOID:000000001558881

- Camera control unit outputs camera ON signal to rear view camera and inputs rear view camera image signal from rear view camera when the reverse signal is input.
- The camera control unit that inputs the camera image signal transmits the camera image signal to the display unit.

Diagnosis Procedure

INFOID:000000001558882

1. CHECK CONTINUITY CAMERA ON SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and rear view camera connector.
3. Check continuity between camera control unit harness connector terminal 8 and rear view camera harness connector terminal 1.

8 - 1 : Continuity should exist.

4. Check continuity between camera control unit harness connector terminal 8 and ground.

8 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK VOLTAGE CAMERA ON SIGNAL

1. Connect camera control unit connector and rear view camera connector.
2. Turn ignition switch ON.
3. Check signal between camera control unit harness connector terminal 8 and ground.

**8 - Ground Shift the selector lever to "R" position
: Approx. 6 V**

Is the inspection result normal?

YES >> Replace rear view camera.

NO >> Replace camera control unit.

CAMERA IMAGE SIGNAL CIRCUIT (CAMERA CONTROL UNIT TO DISPLAY UNIT)

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

CAMERA IMAGE SIGNAL CIRCUIT (CAMERA CONTROL UNIT TO DISPLAY UNIT)

Description

INFOID:000000001558883

- Camera control unit outputs camera ON signal to rear view camera and inputs rear view camera image signal from rear view camera when the reverse signal is input.
- The camera control unit that inputs the camera image signal transmits the camera image signal to the display unit.

Diagnosis Procedure

INFOID:000000001558884

1. CHECK CONTINUITY CAMERA IMAGE SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and display unit connector.
3. Check continuity between camera control unit harness connector terminal 12 and display unit harness connector terminal 12.

12 - 12 : Continuity should exist.

4. Check continuity between camera control unit harness connector terminal 12 and ground.

12 - Ground : Continuity should not exist.

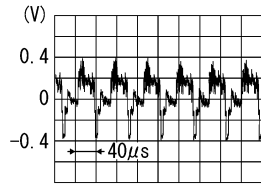
Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK CAMERA IMAGE SIGNAL

1. Connect camera control unit connector and display unit connector.
2. Turn ignition switch ON.
3. Check signal between camera control unit harness connector terminal 12 and ground.

Terminal	Condition		Reference value
12 - Ground	Ignition switch ON	At rear view camera image is displayed.	 <p style="text-align: right; font-size: small;">SKIB2251J</p>

Is the inspection result normal?

YES >> Replace display unit.

NO >> Replace camera control unit.

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STEERING ANGLE SENSOR SIGNAL 1, 2 CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

STEERING ANGLE SENSOR SIGNAL 1, 2 CIRCUIT

Description

INFOID:000000001558889

- Steering angle sensor signal 1, 2 detects the turning direction and quantity of the steering and transmits it to the camera control unit.
- Steering angle sensor signal 3 detects the neutral position of the steering and transmits it to the camera control unit.
- Camera control unit performs the correction of neutral position with sensor signal 1, 2, 3 and vehicle speed signal.

Diagnosis Procedure

INFOID:000000001558890

1. CHECK CONTINUITY STEERING ANGLE SENSOR SIGNAL 1, 2 CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and steering angle sensor connector.
3. Check continuity between camera control unit harness connector terminals 23, 24 and steering angle sensor harness connector terminals 3, 4.

23 - 3 : Continuity should exist.

24 - 4 : Continuity should exist.

4. Check continuity between camera control unit harness connector terminals 23, 24 and ground.

23, 24 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK SENSOR SIGNAL 1, 2

1. Connect camera control unit connector.
2. Turn ignition switch ON.
3. Check voltage between camera control unit harness connector terminals 23, 24 and ground.

23 - Ground : Approx. 5 V

24 - Ground : Approx. 5 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace camera control unit.

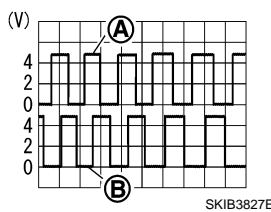
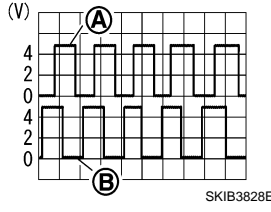
3. CHECK SENSOR SIGNAL 1, 2

1. Connect steering angle sensor connector.
2. Check signal between camera control unit harness connector terminal 23, 24 and ground.

STEERING ANGLE SENSOR SIGNAL 1, 2 CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Terminal		Condition	Reference value
23, 24 - Ground	Ignition switch ON	Turn the steering to the right	 <p style="font-size: small;">A: Sensor signal 1 B: Sensor signal 2</p>
		Turn the steering to the left	 <p style="font-size: small;">A: Sensor signal 1 B: Sensor signal 2</p>

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace Steering angle sensor.

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AV

STEERING ANGLE SENSOR SIGNAL 3 CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

STEERING ANGLE SENSOR SIGNAL 3 CIRCUIT

Description

INFOID:000000001558891

- Steering angle sensor signal 1, 2 detects the turning direction and quantity of the steering and transmits it to the camera control unit.
- Steering angle sensor signal 3 detects the neutral position of the steering and transmits it to the camera control unit.
- Camera control unit performs the correction of neutral position with sensor signal 1, 2, 3 and vehicle speed signal.

Diagnosis Procedure

INFOID:000000001558892

1. CHECK CONTINUITY STEERING ANGLE SENSOR SIGNAL 3 CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect camera control unit connector and steering angle sensor connector.
3. Check continuity between camera control unit harness connector terminal 25 and steering angle sensor harness connector terminal 5.

25 - 5 : Continuity should exist.

4. Check continuity between camera control unit harness connector terminal 25 and ground.

5 - Ground : Continuity should not exist.

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Repair harness or connector.

2. CHECK SENSOR SIGNAL 3

1. Connect camera control unit connector.
2. Turn ignition switch ON.
3. Check voltage between camera control unit harness connector terminal 25 and ground.

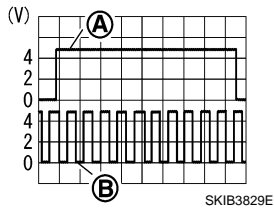
25 - Ground : Approx. 5 V

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Replace camera control unit.

3. CHECK SENSOR SIGNAL 3

1. Connect steering angle sensor connector.
2. Check signal between camera control unit harness connector terminal 25 and ground.

Terminal	Condition	Reference value
25 - Ground	Ignition switch ON Turn the steering around the neutral position	 <p>A: Sensor signal 3 B: Sensor signal 1</p>

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace Steering angle sensor.

STEERING SWITCH SIGNAL A CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

STEERING SWITCH SIGNAL A CIRCUIT

Description

INFOID:000000001558893

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:000000001558894

1.CHECK STEERING SWITCH SIGNAL A CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector terminal 6 and spiral cable harness connector terminal 24.

6 - 24 : Continuity should exist.

3. Check continuity between AV control unit harness connector terminals 6 and ground.

6 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace spiral cable.

3.CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector and spiral cable connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector terminals 6 and 15.

6 - 15 : Approx. 5 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

4.CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-455. "Component Inspection"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

Component Inspection

INFOID:000000001558895

Measure the resistance between the steering switch connector terminals 14 to 17 and 15 to 17.

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AV

STEERING SWITCH SIGNAL A CIRCUIT

[BOSE AUDIO WITH NAVIGATION]

< COMPONENT DIAGNOSIS >

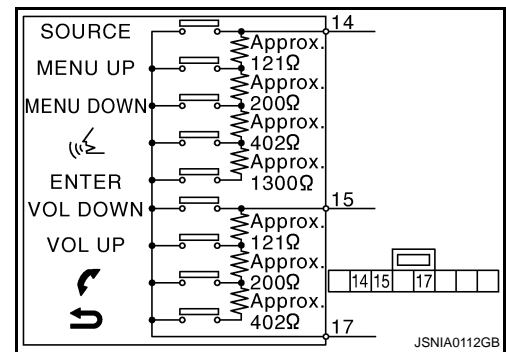
Standard

Between terminals 14 and 17

ENTER switch ON	: 2003 – 2043 Ω
⏪ switch ON	: 716 – 730 Ω
MENU DOWN switch ON	: 318 – 324 Ω
MENU UP switch ON	: 120 – 122 Ω
SOURCE switch ON	: 0 Ω

Between terminals 15 and 17

⏩ switch ON	: 716 – 730 Ω
⏪ switch ON	: 318 – 324 Ω
VOL UP switch ON	: 120 – 122 Ω
VOL DOWN switch ON	: 0 Ω



STEERING SWITCH SIGNAL B CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

STEERING SWITCH SIGNAL B CIRCUIT

Description

INFOID:000000001558896

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:000000001558897

1.CHECK STEERING SWITCH SIGNAL B CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector terminal 16 and spiral cable harness connector terminals 31.

16 - 31 : Continuity should exist.

3. Check continuity between AV control unit harness connector terminal 16 and ground.

16 - Ground : Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2.CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace spiral cable.

3.CHECK AV CONTROL UNIT VOLTAGE

1. Connect AV control unit connector and spiral cable connector.
2. Turn ignition switch ON.
3. Check voltage between AV control unit harness connector terminals 16 and 15.

16 - 15 : Approx. 5 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

4.CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-457. "Component Inspection"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

Component Inspection

INFOID:000000001558898

Measure the resistance between the steering switch connector terminals 14 to 17 and 15 to 17.

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AV

STEERING SWITCH SIGNAL B CIRCUIT

[BOSE AUDIO WITH NAVIGATION]

< COMPONENT DIAGNOSIS >

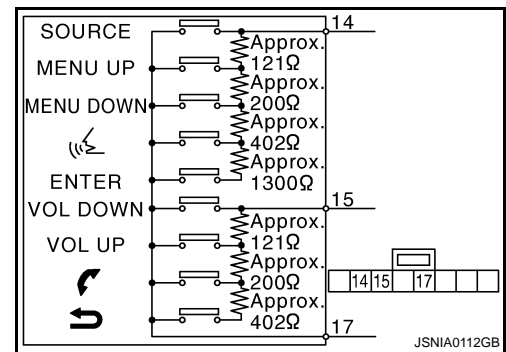
Standard

Between terminals 14 and 17

ENTER switch ON	: 2003 – 2043 Ω
⏪ switch ON	: 716 – 730 Ω
MENU DOWN switch ON	: 318 – 324 Ω
MENU UP switch ON	: 120 – 122 Ω
SOURCE switch ON	: 0 Ω

Between terminals 15 and 17

↶ switch ON	: 716 – 730 Ω
↷ switch ON	: 318 – 324 Ω
VOL UP switch ON	: 120 – 122 Ω
VOL DOWN switch ON	: 0 Ω



STEERING SWITCH SIGNAL GND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

STEERING SWITCH SIGNAL GND CIRCUIT

Description

INFOID:000000001558899

Transmits the steering switch signal to AV control unit.

Diagnosis Procedure

INFOID:000000001558900

1. CHECK STEERING SWITCH SIGNAL GND CIRCUIT

1. Disconnect AV control unit connector and spiral cable connector.
2. Check continuity between AV control unit harness connector terminal 15 and spiral cable harness connector terminal 33.

15 - 33 : Continuity should exist.

3. Connect AV control unit connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair harness or connector.

2. CHECK SPIRAL CABLE

Check spiral cable.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace spiral cable.

3. CHECK GROUND CIRCUIT

1. Connect AV control unit connector.
2. Check continuity between AV control unit harness connector terminal 15 and ground.

15 - Ground : Continuity should exist.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace AV control unit.

4. CHECK STEERING SWITCH

1. Turn ignition switch OFF.
2. Check steering switch. Refer to [AV-459, "Component Inspection"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace steering switch.

Component Inspection

INFOID:000000001558901

Measure the resistance between the steering switch connector terminals 14 to 17 and 15 to 17.

Standard

Between terminals 14 and 17

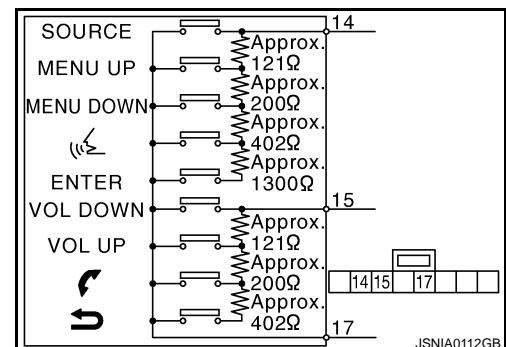
ENTER switch ON : 2003 – 2043 Ω

switch ON : 716 – 730 Ω

MENU DOWN switch ON : 318 – 324 Ω

MENU UP switch ON : 120 – 122 Ω

SOURCE switch ON : 0 Ω



STEERING SWITCH SIGNAL GND CIRCUIT

< COMPONENT DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Between terminals 15 and
17

↶ switch ON	: 716 – 730 Ω
↷ switch ON	: 318 – 324 Ω
VOL UP switch ON	: 120 – 122 Ω
VOL DOWN switch ON	: 0 Ω

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

ECU DIAGNOSIS

AV CONTROL UNIT

Reference Value

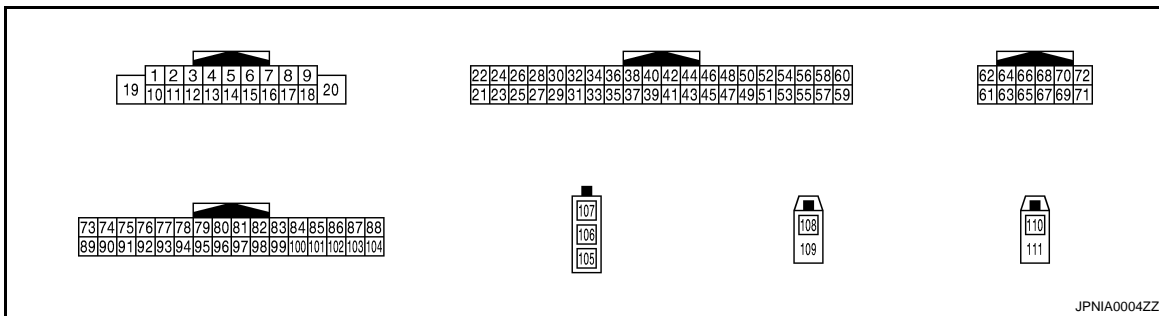
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VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Display Item	Display	Vehicle status	Remarks
VHCL SPD SIG	On	Vehicle speed >0 km/h (0 MPH)	Changes in indication may be delayed. This is normal.
	Off	Vehicle speed =0 km/h (0 MPH)	
PKB SIG	On	Parking brake is applied.	Changes in indication may be delayed. This is normal.
	Off	Parking brake is released.	
ILLUM SIG	On	Block the light beam from the auto light optical sensor when the light SW is ON.	—
	Off	Expose the auto light optical sensor to light when the light SW is OFF or ON.	
IGN SIG	On	Ignition switch ON	—
	Off	Ignition switch in ACC position	
REV SIG	On	Shift the selector lever to "R" position.	Changes in indication may be delayed. This is normal.
	Off	Shift the selector lever other than "R" position.	

TERMINAL LAYOUT



PHYSICAL VALUES

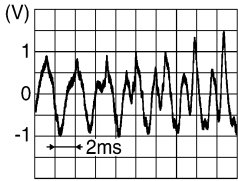

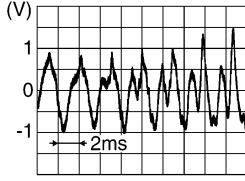
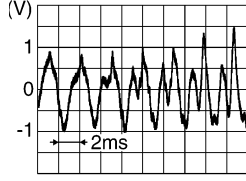


Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/Output			
1 (V)	Ground	Amp. ON signal	Output	Ignition switch ON	—	10 V
2 (P)	3 (L)	Sound signal front LH	Output	Ignition switch ON	Voice output	

SKIB3609E

AV CONTROL UNIT

< ECU DIAGNOSIS >

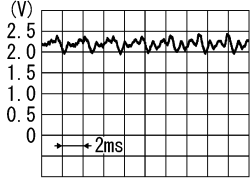
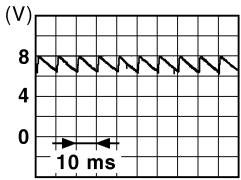
[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
4 (O)	5 (V)	Sound signal rear LH	Output	Ignition switch ON	Voice output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
6 (G)	15 (B)	Steering switch signal A	Input	Ignition switch ON	Keep pressing SOURCE switch.	0 V
					Keep pressing MENU UP switch.	1 V
					Keep pressing MENU DOWN switch.	2 V
					Keep pressing  switch	3 V
					Keep pressing ENTER switch.	4 V
					Except for above.	5 V
7 (GR)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
9 (L)	Ground	Illumination signal	Input	OFF	Lighting switch is OFF.	0 V
					Lighting switch is ON.	12 V
10	—	Shield	—	—	—	—
11 (R)	12 (G)	Sound signal front RH	Output	Ignition switch ON	Voice output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
13 (BR)	14 (Y)	Sound signal rear RH	Output	Ignition switch ON	Voice output	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
15 (B)	Ground	Steering switch signal GND	—	Ignition switch ON	—	0 V
16 (O) ^{*1} (L) ^{*2}	15 (B)	Steering switch signal B	Input	Ignition switch ON	Keep pressing VOL DOWN switch.	0 V
					Keep pressing VOL UP switch.	1 V
					Keep pressing  switch.	2 V
					Keep pressing  switch.	3 V
					Except for above.	5 V

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
19 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
21 (B)	Ground	GND	—	Ignition switch ON	—	0 V
22 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
23 (B)	Ground	GND	—	Ignition switch ON	—	0 V
24 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
25 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
26 (G)	27	Microphone VCC	Output	Ignition switch ON	—	5 V
27	Ground	Shield (Microphone ground)	—	Ignition switch ON	—	0 V
28 (R)	27	Microphone signal	Input	Ignition switch ON	Give a voice	 <p style="text-align: right; font-size: small;">PKIB5037J</p>
35 (G)	Ground	Ignition signal	Input	Ignition switch ON	—	Battery voltage
36 (SB)	Ground	Parking brake signal	Input	Ignition switch ON	Parking brake ON	0 V
					Parking brake OFF	 <p style="text-align: right; font-size: small;">JSNIA0007GB</p>
37 (O)	Ground	Reverse signal	Input	Ignition switch ON	R position	12 V
					Other than R position	0 V

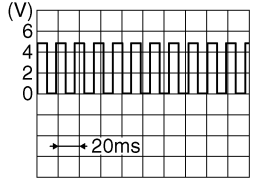
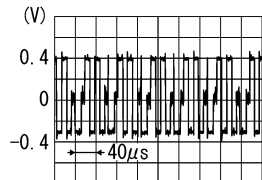
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AV CONTROL UNIT

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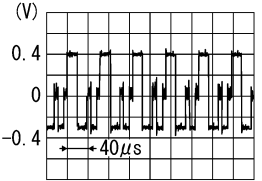
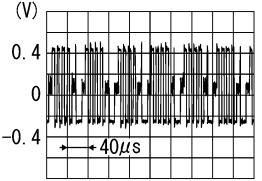
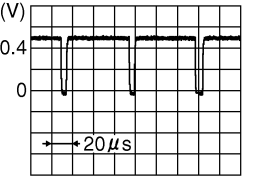
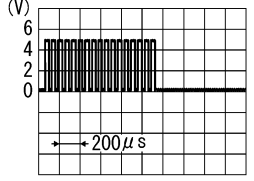
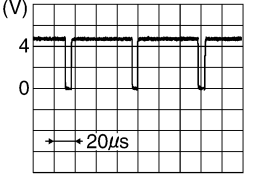
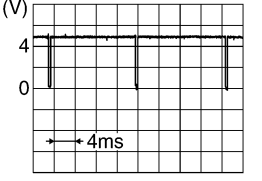
[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
38 (GR)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is approx. 40 km/h (25MPH)	NOTE: Maximum voltage may be 12 V due to specifications (connected units).  <small>SKIA6649J</small>
40 (V)	Ground	Camera-connection recognition signal	Input	Ignition switch ON	Connected to camera control unit connector	0 V
					Not connected to camera control unit connector	5 V
41 (B)	Ground	Control signal 1	Input	Ignition switch ON	—	0 V
43 (B)	Ground	Control signal 3	Input	Ignition switch ON	—	0 V
44 (SB)	Ground	Mode change signal	Output	Ignition switch ON	Driver's Audio Stage ON	0 V
					Driver's Audio Stage OFF	8.5 V
48 (L)	—	AV communication signal (H)	Input/ Output	—	—	—
49 (P)	—	AV communication signal (L)	Input/ Output	—	—	—
50 (G) ^{*1} (SB) ^{*2}	—	AV communication signal (H)	Input/ Output	—	—	—
51 (R) ^{*1} (W) ^{*2}	—	AV communication signal (L)	Input/ Output	—	—	—
52 (L)	—	CAN-H	Input/ Output	—	—	—
53 (P)	—	CAN-L	Input/ Output	—	—	—
61 (W)	Ground	RGB signal (R: red)	Output	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 <small>SKIB2238J</small>

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
62 (B)	Ground	RGB signal (G: green)	Output	Ignition switch ON	Start confirmation/adjust- ment mode, and then dis- play color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 <p style="text-align: right; font-size: small;">SKIB2236J</p>
63 (R)	Ground	RGB signal (B: blue)	Output	Ignition switch ON	Start confirmation/adjust- ment mode, and then dis- play color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 <p style="text-align: right; font-size: small;">SKIB2237J</p>
64	—	Shield	—	—	—	—
65 (G)	Ground	RGB synchronizing signal	Output	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">JPNIA0461GB</p>
66	—	Shield	—	—	—	—
67 (B) ^{*1} (L) ^{*2}	Ground	RGB area (YS) signal	Output	Ignition switch ON	At RGB image displayed	5 V
					At rear view camera image is displayed	 <p style="text-align: right; font-size: small;">PKIB4948J</p>
68 (R)	Ground	Horizontal synchronizing (HP) signal	Input	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">SKIB3601E</p>
69 (W)	Ground	Vertical synchronizing (VP) signal	Input	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">SKIB3598E</p>

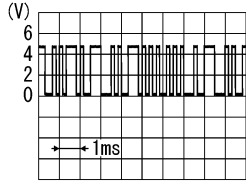
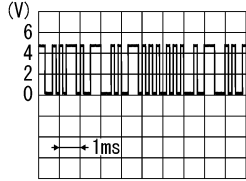
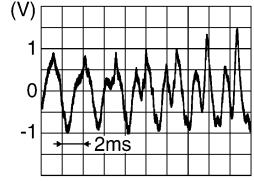
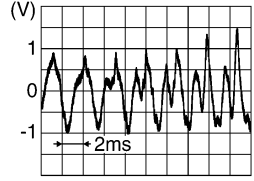
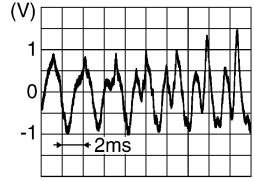
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AV CONTROL UNIT

< ECU DIAGNOSIS >

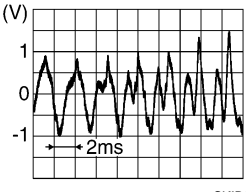
[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
70 (BR)	Ground	Communication signal (CONT→DISP)	Output	Ignition switch ON	When adjusting display- brightness.	 <p style="text-align: right; font-size: small;">PKIB5039J</p>
71 (Y)	Ground	Communication signal (DISP→CONT)	Input	Ignition switch ON	When adjusting display- brightness.	 <p style="text-align: right; font-size: small;">PKIB5039J</p>
72	—	Shield	—	—	—	—
79 (R)	95 (W)	iPod sound signal LH	Input	Ignition switch ON	When iPod mode is select- ed	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
80 (B)	96 (G)	iPod sound signal RH	Input	Ignition switch ON	When iPod mode is select- ed	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
81	—	Shield	—	—	—	—
85 (LG) ^{*1} (SB) ^{*2}	Ground	Eject signal	Input	—	Pressing the eject switch	0 V
					Except for above	5 V
86	—	Shield	—	—	—	—
87 (B)	88 (B)	AUX sound signal LH	Input	Ignition switch ON	When AUX mode is select- ed	 <p style="text-align: right; font-size: small;">SKIB3609E</p>
102 (BR)	Ground	SW GND	—	Ignition switch ON	—	0 V

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
103 (LG)	88 (B)	AUX sound signal RH	Input	Ignition switch ON	When AUX mode is select- ed	
105	—	FM sub	Input	—	—	—
106	—	AM-FM main	Input	—	—	—
107	Ground	Antenna amp. ON signal	Output	Ignition switch ON	—	12 V
108	Ground	Satellite antenna signal	Input	Ignition switch ON	Not connected to satellite antenna connector	5 V
109	—	Shield	—	—	—	—
110	Ground	GPS antenna signal	Input	Ignition switch ON	Not connected to GPS an- tenna connector	5 V
111	—	Shield	—	—	—	—

*1: With rear view camera.

*2: Without rear view camera.

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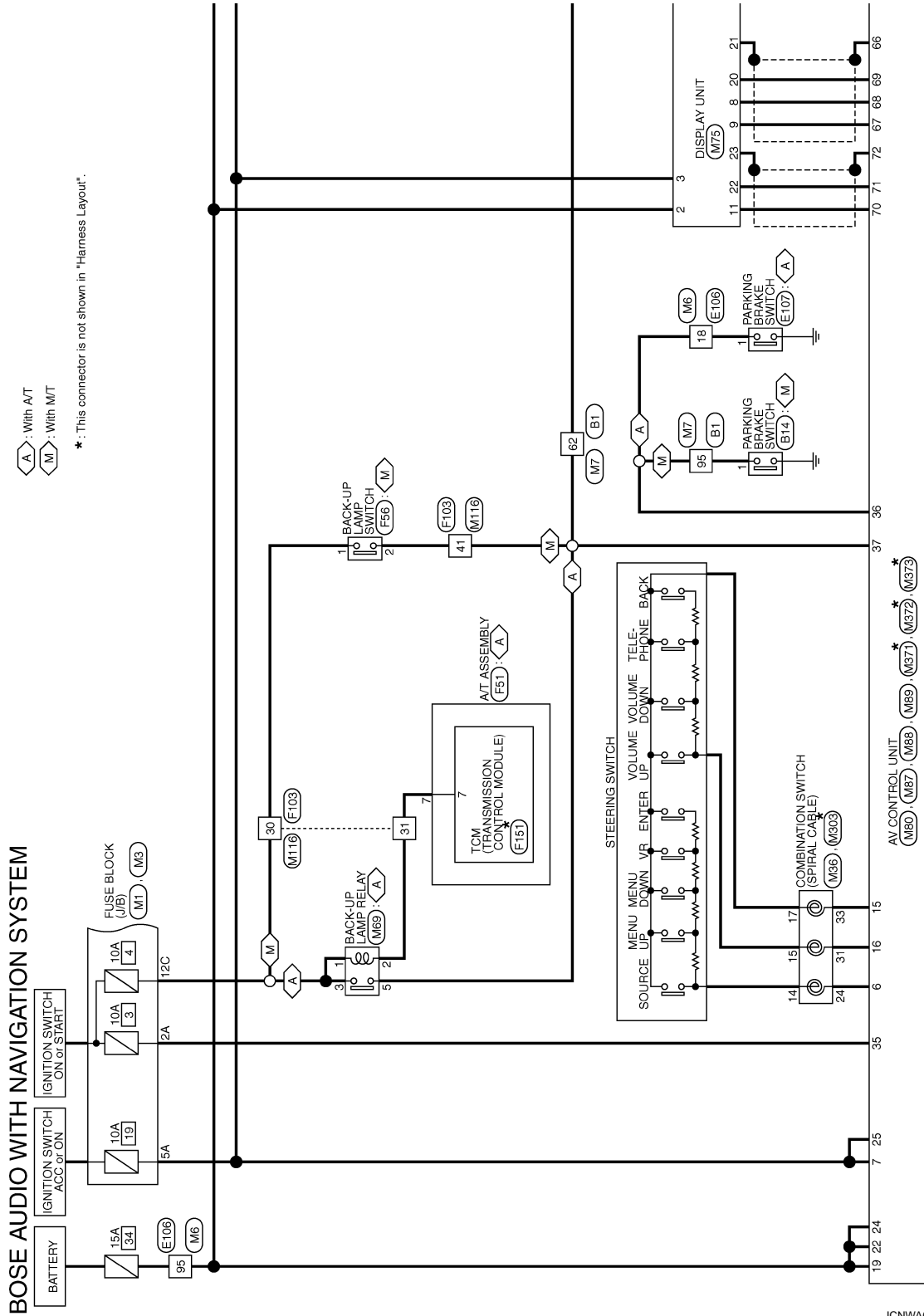
AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM -

INFOID:000000001558907



2007/05/18

JCNWA0480GE

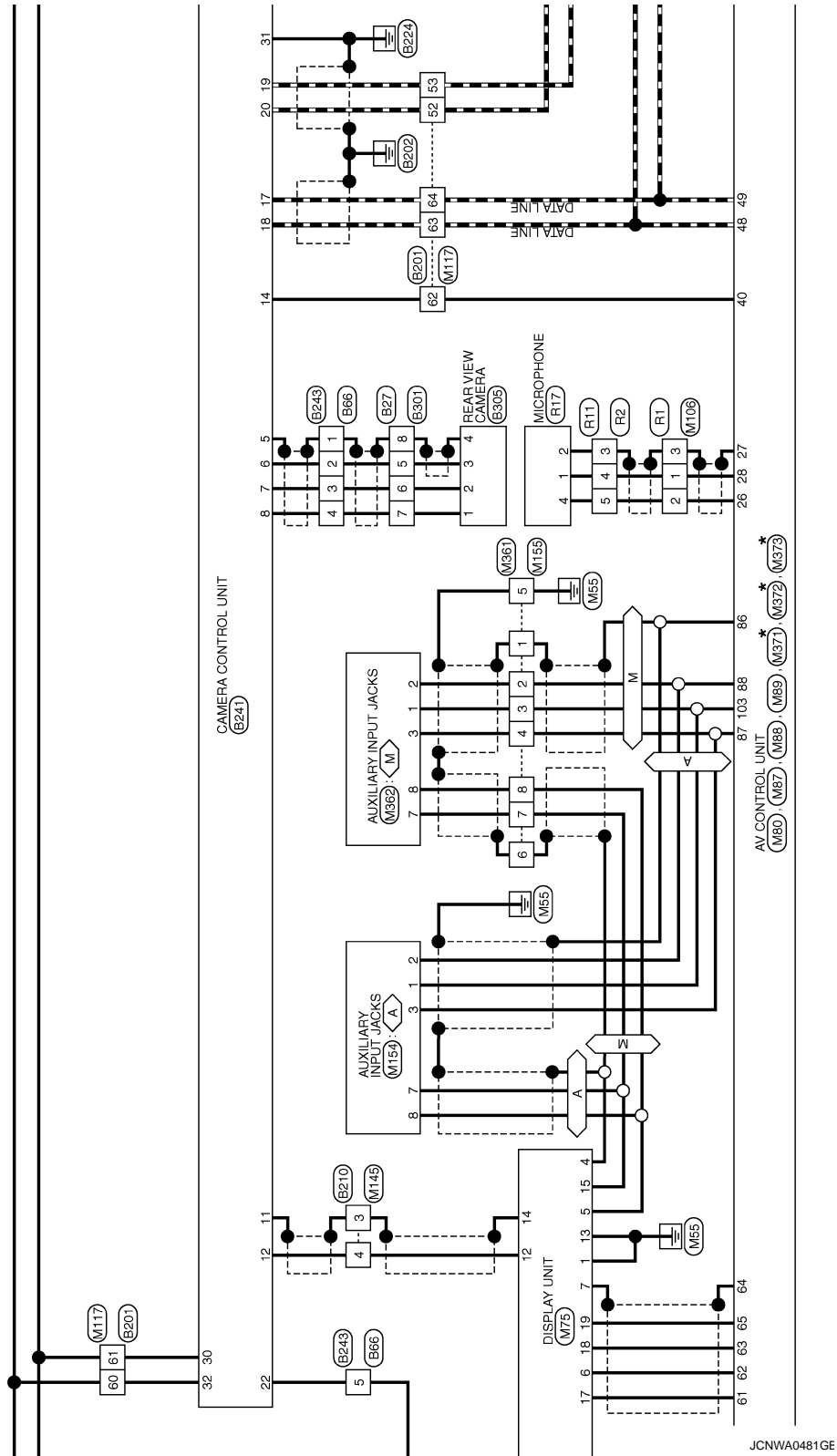
AV CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

 : With A/T
 : With M/T

*: This connector is not shown in "Harness Layout".



JCNWA0481GE

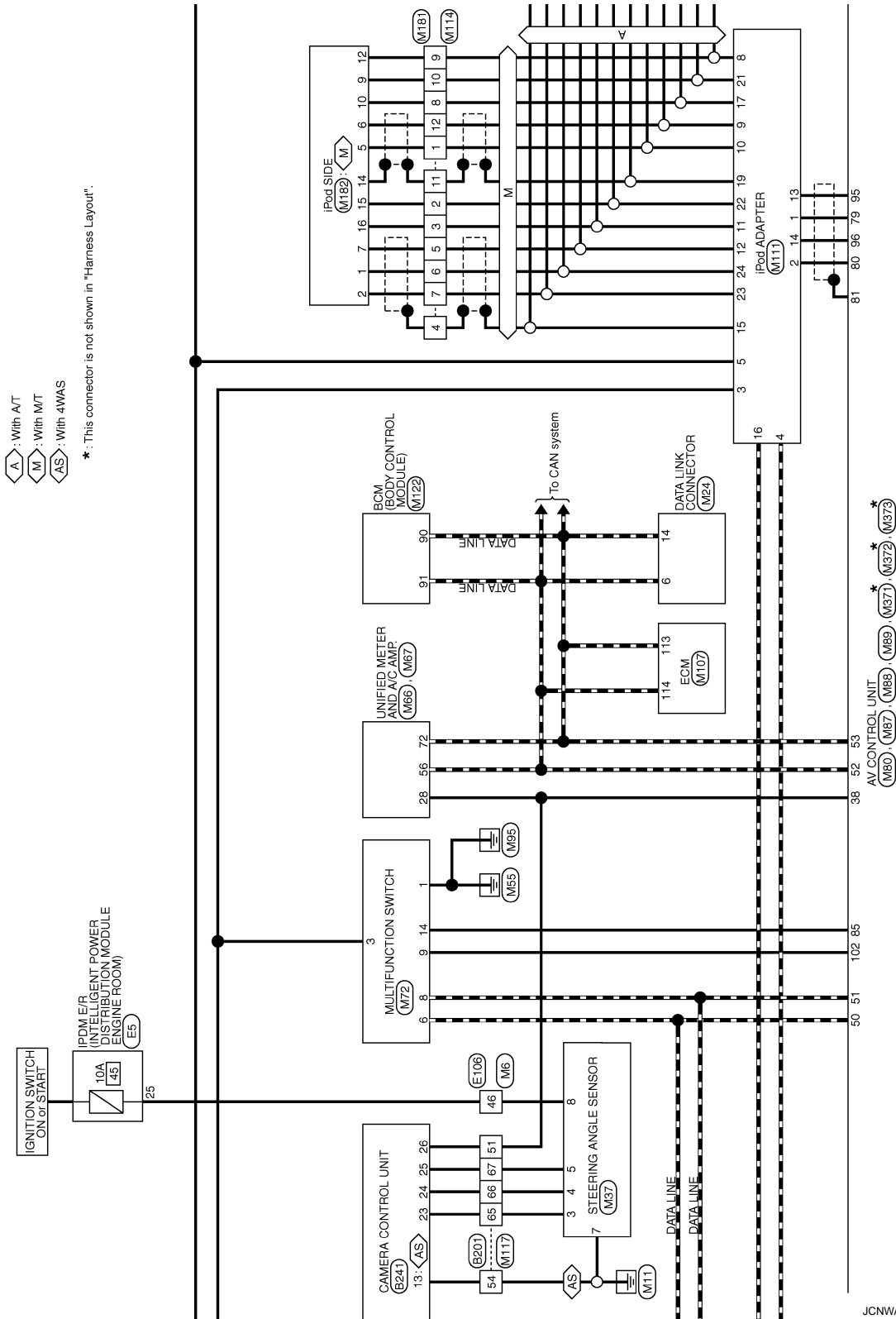
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AV CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

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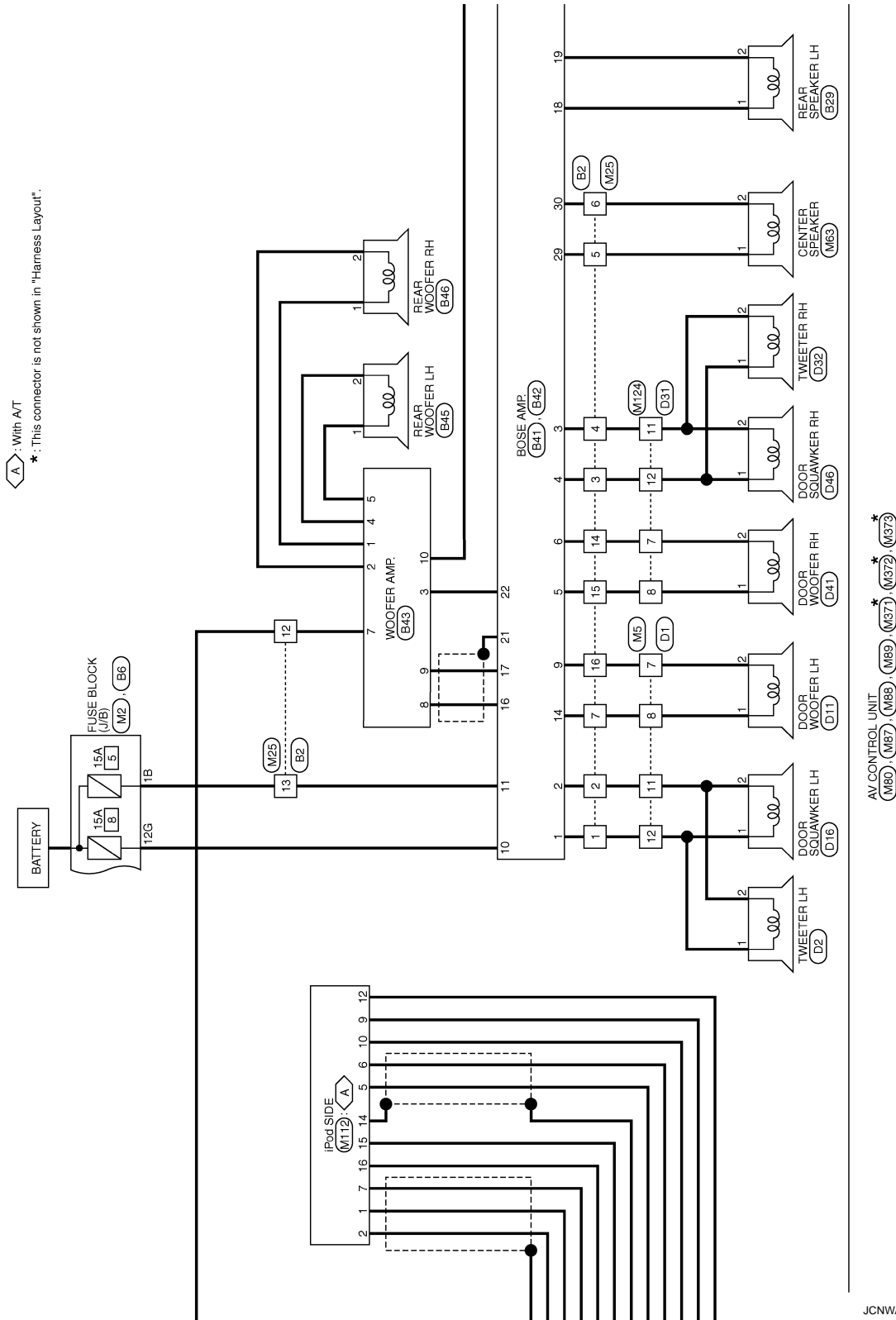


JCNWA0482GE

AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]



⊠ : With A/T
 * : This connector is not shown in "Harness Layout".

JCNWA0483GE

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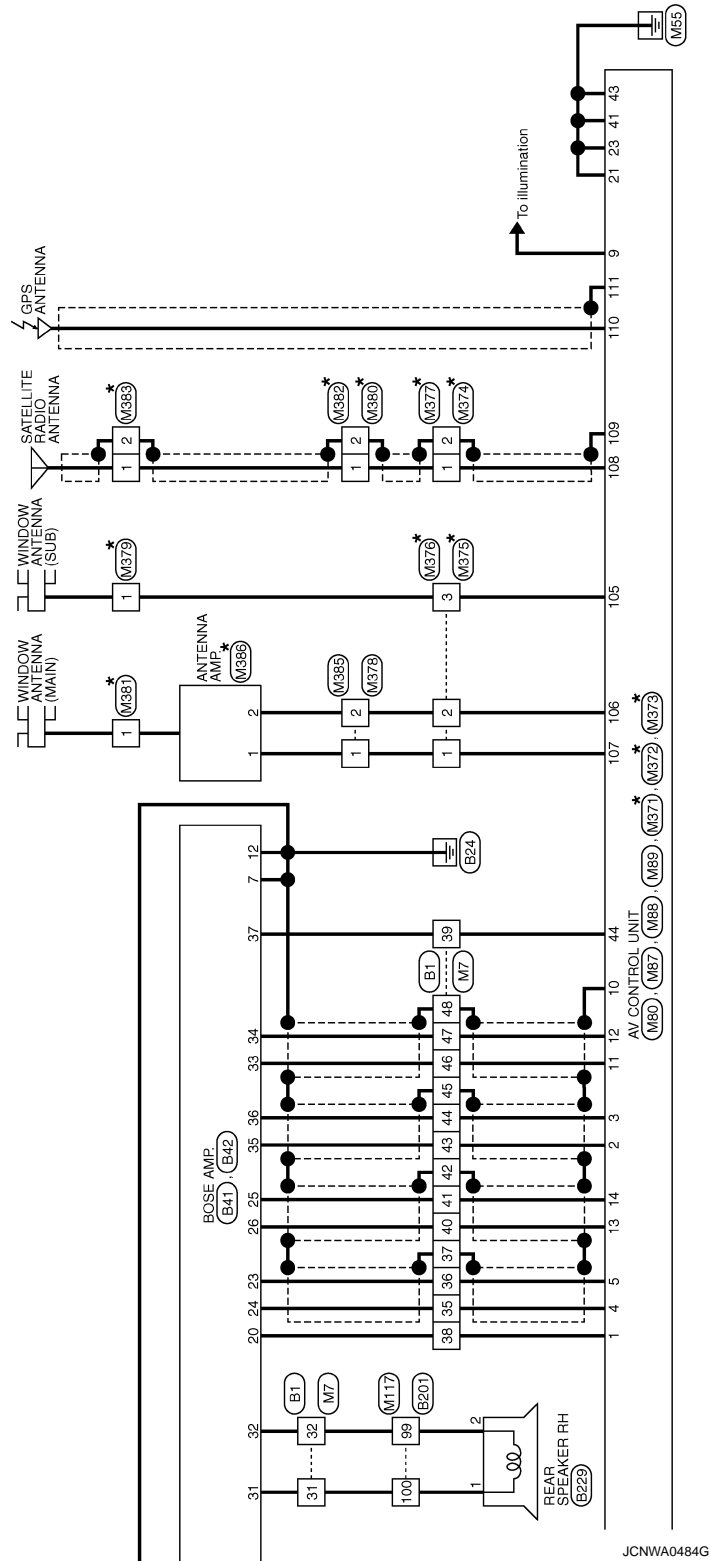
AV

AV CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

*: This connector is not shown in "Harness Layout".



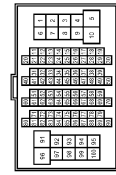
AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	LG	-
32	Y	-
35	V	-
36	SB	-
37	SHIELD	-
38	W	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	P	-

44	L	-
45	SHIELD	-
46	F	-
47	G	-
48	SHIELD	-
82	O	-
95	V	-



Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	V	-
4	LG	-
5	L	-
6	O	-
7	B	-
12	Y	-
13	GR	-
14	R	-
15	G	-

16	W	-
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Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



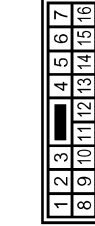
Terminal No.	IZG	Y	-
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Connector No.	B14
Connector Name	PARKING BRAKE SWITCH (M/T)
Connector Type	P01FB-A



Terminal No.	1	V	-
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Connector No.	B27
Connector Name	WIRE TO WIRE
Connector Type	NS38MW-CS



Terminal No.	5	B	-
6	B	-	-
7	R	-	-
8	SHIELD	-	-

Connector No.	B29
Connector Name	REAR SPEAKER LH
Connector Type	TK02MBR-P



Terminal No.	1	L	-
2	P	-	-

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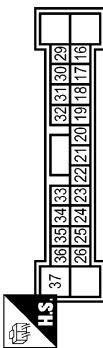
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[BOSE AUDIO WITH NAVIGATION]

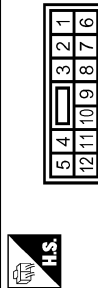
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FER-SG44



Terminal No.	Color of Wire	Signal Name [Specification]
16	SB	SOUND SIGNAL WOOFER (+)
17	V	SOUND SIGNAL WOOFER (-)
18	L	SOUND SIGNAL REAR LH (+)
19	P	SOUND SIGNAL REAR LH (-)
20	W	AMP. ON SIGNAL
21	SHIELD	SHIELD
22	GR	WOOFER AMP. ON SIGNAL
23	SB	SOUND SIGNAL REAR LH (+)
24	V	SOUND SIGNAL REAR LH (-)
25	Y	SOUND SIGNAL REAR RH (+)
26	BR	SOUND SIGNAL REAR RH (-)

Connector No.	B43
Connector Name	WOOFER AMP.
Connector Type	NS12PW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR WOOFER RH (+)
2	R	REAR WOOFER RH (-)
3	GR	WOOFER AMP. ON SIGNAL
4	B	REAR WOOFER LH (+)
5	W	REAR WOOFER LH (-)
7	Y	BATTERY
8	SB	SOUND SIGNAL WOOFER (+)
9	V	SOUND SIGNAL WOOFER (-)
10	B	GND

29	L	SOUND SIGNAL CENTER (+)
30	O	SOUND SIGNAL CENTER (-)
31	LG	SOUND SIGNAL REAR RH (+)
32	V	SOUND SIGNAL REAR RH (-)
33	R	SOUND SIGNAL FRONT RH (+)
34	G	SOUND SIGNAL FRONT RH (-)
35	P	SOUND SIGNAL FRONT LH (+)
36	L	SOUND SIGNAL FRONT LH (-)
37	SB	MODE CHANGE SIGNAL

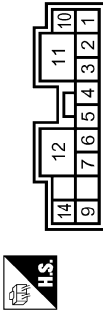
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	DOOR SQUAWKER LH (+)
2	W	DOOR SQUAWKER LH (-)
3	LG	DOOR SQUAWKER RH (-)
4	V	DOOR SQUAWKER RH (+)
5	G	DOOR WOOFER RH (+)
6	R	DOOR WOOFER RH (-)
7	B	GND
9	W	DOOR WOOFER LH (-)
10	Y	BATTERY
11	GR	BATTERY
12	B	GND

Connector No.	B46
Connector Name	REAR WOOFER RH
Connector Type	NS32PW-CS

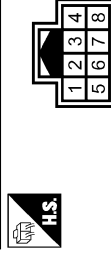


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA12FER-SJA2



Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TR038MP-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	W	-
4	R	-
5	O	-

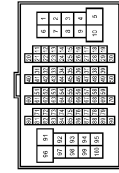
AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

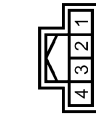
Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH02PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
51	V	-
52	L	- [With rear view camera]
53	P	- [With rear view camera]
54	B	-
60	BR	-
61	LG	-
62	GR	-
63	L	-
64	P	-
65	Y	-
66	SB	-

67	O	-
99	P	-
100	L	-

Connector No.	B210
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH



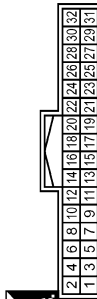
Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-

Connector No.	B229
Connector Name	REAR SPEAKER RH
Connector Type	TK02MR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	-

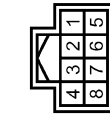
Connector No.	B241
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH02PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	B	CAMERA IMAGE SIGNAL
7	W	GND
8	R	CAMERA ON SIGNAL
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
13	B	CONTROL SIGNAL
14	GR	CONNECTION RECOGNITION
17	P	AV COMM (L)
18	L	AV COMM (R)
19	R	AV COMM (L)

20	G	AV COMM (R)
22	GR	REVERSE
23	Y	SENSOR SIGNAL 1
24	SB	SENSOR SIGNAL 2
25	O	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	BR	BATTERY

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	W	-
4	R	-
5	GR	-

Connector No.	B301
Connector Name	WIRE TO WIRE
Connector Type	NS08PW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-
6	W	-
7	R	-
8	SHIELD	-

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AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

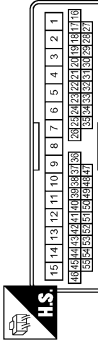
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B305
Connector Name	REAR VIEW CAMERA
Connector Type	TH04MW-RH



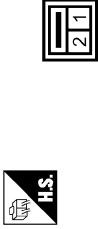
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	CAMERA ON SIGNAL
2	W	GND
3	Y	CAMERA IMAGE SIGNAL
4	SHIELD	SHIELD

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D2
Connector Name	TWEETER LH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D11
Connector Name	DOOR WOOFER LH
Connector Type	NS02FW-CS



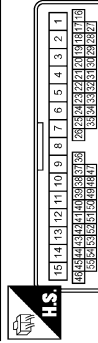
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	D16
Connector Name	DOOR SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D22
Connector Name	TWEETER RH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D41
Connector Name	DOOR WOOFER RH
Connector Type	NS02FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

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AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

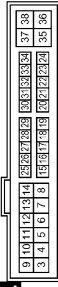
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	D48
Connector Name	DOOR SQUAWKER RH
Connector Type	TK02BR



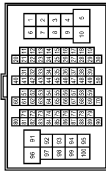
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	E5
Connector Name	IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-TV



Terminal No.	Color of Wire	Signal Name [Specification]
25	G	-

Connector No.	F105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM



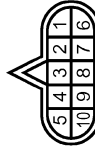
Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
46	W	-
95	Y	-

Connector No.	F107
Connector Name	PARKING BRAKE SWITCH (A/T)
Connector Type	TB01FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



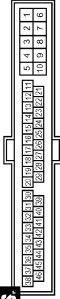
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-

Connector No.	F56
Connector Name	BACK-UP LAMP SWITCH
Connector Type	RK02FB



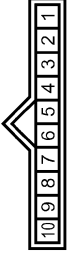
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK68FW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
30	R	-
31	R	-
41	O	-

Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FBGY



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

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AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS36FW-M2



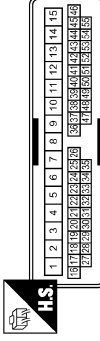
Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



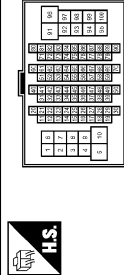
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	L	-

Terminal No.	Color of Wire	Signal Name [Specification]
1B	SB	-

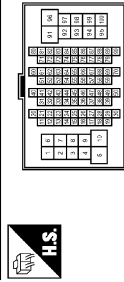
Terminal No.	Color of Wire	Signal Name [Specification]
12C	R	-

Terminal No.	Color of Wire	Signal Name [Specification]
7	W	-
8	B	-
11	W	-
12	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH30MW-CS16-TM4

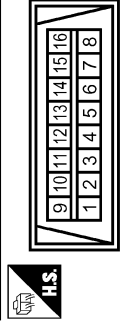


Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH30MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
44	W	-
45	SHIELD	-
46	R	-
47	G	-
48	SHIELD	-
62	O	-
95	O	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD10FW



Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
46	G	-
95	Y	-

Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	P	-
35	O	-
36	W	-
37	SHIELD	-
38	SB	-
39	SR	-
40	BR	-
41	Y	-
42	SHIELD	-
43	O	-

Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

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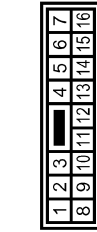
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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	1516MWC-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	GR	-
5	L	-
6	LG	-
7	B	-
12	Y	-
13	SB	-
14	R	-
15	G	-

Terminal No.	16	W	-
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Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-TV



Terminal No.	Color of Wire	Signal Name [Specification]
24	G	-
31	L	-
33	B	-

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH



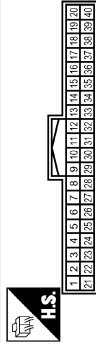
Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	O	SENSOR3
7	B	GND
8	G	IGN

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	LG	-

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

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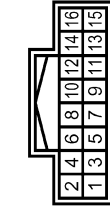
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[BOSE AUDIO WITH NAVIGATION]

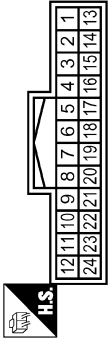
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



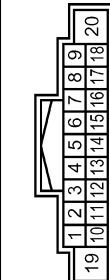
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	L	ACC
3	SB	AV COMM (H)
4	W	AV COMM (L)
5	BR	SW GND
6	BR	EJECT SIGNAL (With NAVI)
14	SB	EJECT SIGNAL (With NAVI)

Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	LG	ACC
4	SHIELD	SHIELD
5	R	AUX IMAGE GND
6	B	RGB (GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (V/S) SIGNAL (With rear view camera)
11	BR	COMM (CONT-2)DISP
12	W	CAMERA IMAGE SIGNAL

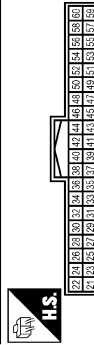
Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	AMP_ON SIGNAL
2	O	SOUND SIGNAL FRONT LH (+)
3	W	SOUND SIGNAL FRONT LH (-)
4	O	SOUND SIGNAL REAR LH (+)
5	W	SOUND SIGNAL REAR LH (-)
6	G	STRG SW A
7	V	ACC
9	L	ILLUMINATION
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (+)
12	G	SOUND SIGNAL FRONT RH (-)

13	B	GND
14	SHIELD	SHIELD
15	G	AUX IMAGE SIGNAL
17	W	RGB (RED) SIGNAL
18	R	RGB (BLUE) SIGNAL
19	C	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	Y	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
35	G	IGNITION
36	SB	PARKING BRAKE
37	O	REVERSE

38	GR	VEHICLE SPEED (8-PULSE)
40	W	CONNECTION RECOGNITION
41	B	CONTROL SIGNAL 1
43	B	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
48	L	AV COMM (H)
49	P	AV COMM (L)
50	V	AV COMM (H)
51	LG	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

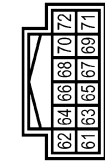
AV CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

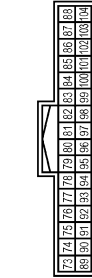
Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
61	W	RGB (RFRED) SIGNAL
62	B	RGB (GGREEN) SIGNAL
63	R	RGB (BBLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (YS) SIGNAL (With rear view camera)
68	R	HP
69	W	VP
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

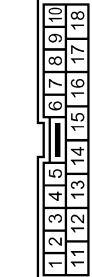
72	SHIELD
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Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FPW-NH



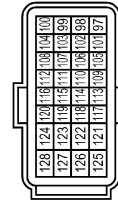
Terminal No.	Color of Wire	Signal Name [Specification]
79	R	iPod SOUND SIGNAL LH (+)
80	B	iPod SOUND SIGNAL RH (+)
81	SHIELD	SHIELD
85	LG	EJECT SIGNAL (With rear view camera)
86	SHIELD	SHIELD
87	W	AUX SOUND SIGNAL LH (+)
88	B	AUX SOUND SIGNAL GND
95	W	iPod SOUND SIGNAL LH (-)
96	G	iPod SOUND SIGNAL RH (-)
102	BR	SW GND
103	R	AUX SOUND SIGNAL RH (+)

Connector No.	M106
Connector Name	WIRES TO WIRES
Connector Type	TK10MPF-NS



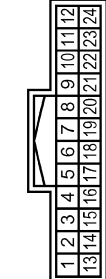
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-- [With NAVI]
2	G	-- [With NAVI]
3	SHIELD	-- [With NAVI]

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGV-R28-R-LH-Z



Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-L1
114	L	VEHCAN-H1

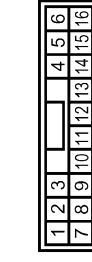
Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER (With A/T)
9	L	CHARGE POWER (With M/T)
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	W	iPod SOUND SIGNAL RH (+)

Terminal No.	Color of Wire	Signal Name [Specification]
13	W	iPod SOUND SIGNAL LH (-)
14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	R	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP16FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

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AV CONTROL UNIT

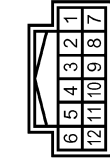
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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

12	P	-
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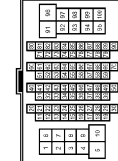
Connector No.	M114
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

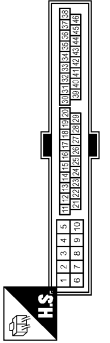
67	O	-
68	P	-
100	L	-

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH160MW-CS16-TM4



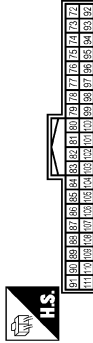
Terminal No.	Color of Wire	Signal Name [Specification]
51	P	-
52	V	-
53	LG	-
54	B	-
60	Y	-
61	SB	-
62	W	-
63	L	-
64	P	-
65	L	-
66	BR	-

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TH36MW-NS/D



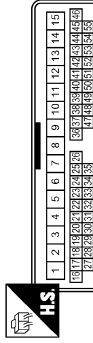
Terminal No.	Color of Wire	Signal Name [Specification]
30	LG	-
31	W	-
41	O	-

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	GR	-
12	BR	-

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AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M145
Connector Name	WIRE TO WIRE
Connector Type	TH2MW-NH



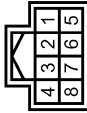
Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB8EW



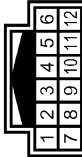
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+)
2	B	SOUND SIGNAL GND [With NAVI]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M155
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	- [With NAVI]
3	R	-
4	W	-
5	B	-
6	SHIELD	-
7	G	-
8	R	-

Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

12	P	-
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Connector No.	M182
Connector Name	I-POD SIDE
Connector Type	IP16FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	I-Pod SOUND SIGNAL LH (+)
2	R	I-Pod SOUND SIGNAL GND
5	L	COMM (I-Pod->I-Pod ADAPTER)
6	P	COMM (I-Pod ADAPTER->I-Pod)
7	W	I-Pod SOUND SIGNAL RH (+)
9	W	I-Pod CONNECTION RECOGNITION
10	BR	GND
12	L	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
14	W	-
15	L	-
17	BR	-

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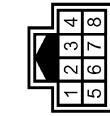
AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M381
Connector Name	WIRE TO WIRE
Connector Type	TH08BW-RH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	R	-
4	W	-
5	SHIELD	-
6	SHIELD	-
7	G	-
8	R	-

Connector No.	M382
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB8EW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+) [With NAVI]
2	B	SOUND SIGNAL GND [With NAVI]
3	W	SOUND SIGNAL LH (+)
4	W	AUX IMAGE SIGNAL
5	R	AUX IMAGE GND

Connector No.	M371
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SH-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
105	-	FM SUB
106	-	AM-FM MAIN
107	-	AM/FM AMP. ON SIGNAL

Connector No.	M372
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAK8A-JACK



Terminal No.	Color of Wire	Signal Name [Specification]
108	-	SAETLLITE-ANTENNA
109	SHIELD	SHIELD

Connector No.	M373
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT9-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
110	-	GPS ANTENNA
111	SHIELD	SHIELD

Connector No.	M374
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	SHIELD	-

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

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AV CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M377	Connector No.	M378	Connector No.	M379	Connector No.	M380
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WINDOW ANTENNA (SUB)	Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU	Connector Type	GT13SCH-1/1PP-HU	Connector Type	P01FB-A	Connector Type	GT16C-1PP-HU

Terminal No.	1	2	Terminal No.	1	2	Terminal No.	1	2	Terminal No.	1	2
Color of Wire	-	-	Color of Wire	-	-	Color of Wire	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-	-

Connector No.	M381	Connector No.	M382	Connector No.	M383	Connector No.	M385
Connector Name	WINDOW ANTENNA (MAIN)	Connector Name	WIRE TO WIRE	Connector Name	SATELLITE RADIO ANTENNA	Connector Name	WIRE TO WIRE
Connector Type	P01FB-A	Connector Type	GT16C-1S-HU	Connector Type	GT16C-1PP-HU	Connector Type	GT13SC-1/1S-HU

Terminal No.	1	2	Terminal No.	1	2	Terminal No.	1	2	Terminal No.	1	2
Color of Wire	-	-	Color of Wire	-	-	Color of Wire	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-	-

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BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M386
Connector Name	ANTENNA AMP.
Connector Type	GTJ3SC-1/1S-HU



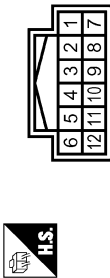
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP. ON SIGNAL
2	-	AM-FM MAIN

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TKJDFW-NSB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	- [With NAVI]
2	G	- [With NAVI]
3	SHIELD	- [With NAVI]

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	R	- [With NAVI]
5	G	- [With NAVI]

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-
5	R	-

Connector No.	R17
Connector Name	MICROPHONE
Connector Type	TKG4FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	MICROPHONE SIGNAL
2	SHIELD	SHIELD
4	R	MICROPHONE VCC

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NOTE:

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

Fail-Safe

INFOID:000000001558908

When the ambient temperature becomes extremely low or extremely high, or when HDD is malfunctioning, AV control unit displays the message and limits the AV control unit function.

AV CONTROL UNIT

< ECU DIAGNOSIS >

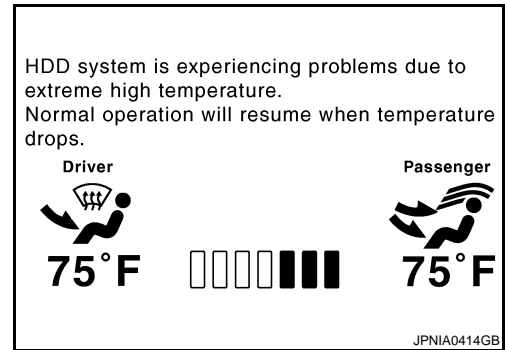
[BOSE AUDIO WITH NAVIGATION]

FAIL-SAFE CONDITIONS

- When the ambient temperature is -20°C (-4°F) or lower, or when it is 70°C (158°F) or higher
- when HDD is malfunctioning

Display

The messages displayed on fail-safe conditions are as shown below:



Fail-safe mode	Display (display of the fail-safe condition)
When HDD temperature is low	HDD system is experiencing problems due to extreme low temperature. Normal operation will resume when temperature rises.
When HDD temperature is high	HDD system is experiencing problems due to extreme high temperature. Normal operation will resume when temperature drops.
When HDD is malfunctioning	HDD system is not functioning. Please contact your dealer for assistance.

DESCRIPTION OF CONTROLS

Function	When Fail-safe Function is activated	
Air conditioner	Operation	Only multifunction switch (preset switch) can be operated.
	Display	<ul style="list-style-type: none"> • LED of multifunction switch (preset switch) illuminates. • Aimed temperature, blow angle, and flow rate are displayed in simplified mode.
Audio	Operation	Only ON/OFF and volume control operations by multifunction switch (preset switch) are possible.
	Display	No display ("Fail-safe mode" is displayed)
Camera	Operation	Image tone cannot be controlled.
	Display	Cannot be superimposed. (warning display, tone control display)
Hands-free phone	Operation	Cannot be operated.
Navigation	Operation	Cannot be operated.
Self diagnosis	The display in simplified mode of fail-safe condition	
CONSULT-III diagnosis	Cannot be operated.	

Ability Operation Mode

There is an ability operation mode for Fail-safes due to low or high ambient temperature.

If HDD data can be read, fail-safe is shown, then normal displays are displayed only for functions which can be operated.

RELEASE CONDITIONS OF FAIL-SAFE

Fail-safe is released on following conditions and normal mode is restored.

When the temperature of HDD is low or high

If the ambient temperature becomes out of fail-safe condition range, normal mode is restored.

When HDD is malfunctioning

If the malfunction disappears, normal mode is restored.

NOTE:

- If fail-safe mode due to HDD malfunction is seen continuously, replace AV control unit.

AV CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

- If fail-safe mode due to HDD malfunction is seen temporarily, check the “Error History” of Confirmation/ Adjustment mode. If this is normal, then continue the normal operation, observing the function. (It might be a temporary malfunction of HDD.)

DTC Index

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SELF-DIAGNOSIS RESULTS DISPLAY ITEM

DTC	Display item	Refer to
U1000	CAN COMM CIRCUIT [U1000]	AV-407, "Diagnosis Procedure"
U1010	CONTROL UNIT (CAN) [1010]	AV-408, "Diagnosis Procedure"
U1310	CONTROL UNIT (AV) [U1310]	AV-409, "DTC Logic"
U1200	Control Unit FLASH-ROM [1200]	AV-410, "DTC Logic"
U1201	Gyro NO CONN [1201]	AV-411, "DTC Logic"
U1216	CAN CONT [U1216]	AV-412, "DTC Logic"
U1217	BLUETOOTH CONN [U1217]	AV-413, "DTC Logic"
U1218	HDD CONN [U1218]	AV-414, "DTC Logic"
U1219	HDD READ [U1219]	AV-415, "DTC Logic"
U1220	XM SERIAL COMM [U1220]	AV-416, "DTC Logic"
U121A	HDD WRITE [U121A]	AV-417, "DTC Logic"
U121B	HDD COMM [U121B]	AV-418, "DTC Logic"
U121C	HDD ACCESS [U121C]	AV-419, "DTC Logic"
U121D	DSP CONN [U121D]	AV-420, "DTC Logic"
U121E	DSP COMM [U121E]	AV-421, "DTC Logic"
U121F	INTERNAL COMM [U121F]	AV-422, "DTC Logic"
U1204	GPS COMM [U1204]	AV-423, "DTC Logic"
U1205	GPS ROM [U1205]	AV-424, "DTC Logic"
U1206	GPS RAM [U1206]	AV-425, "DTC Logic"
U1207	GPS RTC [U1207]	AV-426, "DTC Logic"
U1243	FRONT DISP CONN [U1243]	AV-427, "DTC Logic"
U1244	GPS ANTENNA CONN [U1244]	AV-429, "DTC Logic"
U1250	CAMERA CONT. CONN [U1250]	AV-430, "DTC Logic"
U1258	XM ANTENNA CONN [U1258]	AV-431, "DTC Logic"
U1300 U121F	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • INTERNAL COMM [U121F] 	AV-432, "Description"
U1300 U1240	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] 	AV-432, "Description"
U1300 U1252	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • REAR CAMERA LAN CONN [U1252] 	AV-432, "Description"
U1300 U1254	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • IPOD CONN [U1254] 	AV-432, "Description"
U1300 U1252 U1254	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • REAR CAMERA LAN CONN [U1252] • IPOD CONN [U1254] 	AV-432, "Description"
U1300 U1240 U1252 U1254	<ul style="list-style-type: none"> • AV COMM CIRCUIT [U1300] • SWITCH CONN [U1240] • REAR CAMERA LAN CONN [U1252] • IPOD CONN [U1254] 	AV-432, "Description"

DISPLAY UNIT

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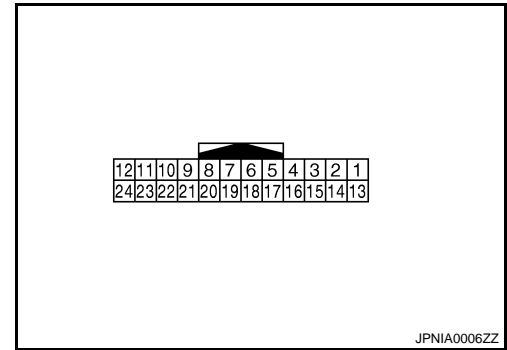
[BOSE AUDIO WITH NAVIGATION]

DISPLAY UNIT

Reference Value

INFOID:000000001558910

TERMINAL LAYOUT



PHYSICAL VALUES

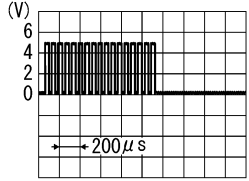
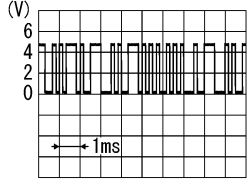
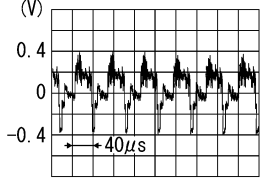
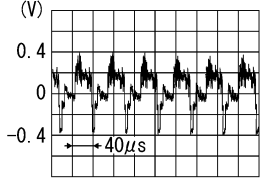
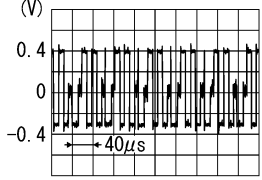
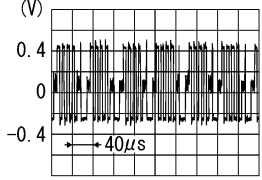
Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (B)	Ground	GND	—	Ignition switch ON	—	0 V
2 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
3 (LG)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
4	—	Shield	—	—	—	—
5 (R)	Ground	AUX image GND	—	Ignition switch ON	—	0 V
6 (B)	Ground	RGB signal (G: green)	Input	Ignition switch ON	Start confirmation/adjust- ment mode, and then dis- play color bar by selecting “Color Spectrum Bar” on DISPLAY DIAGNOSIS screen.	<p style="text-align: right;">SKIB2236J</p>
7	—	Shield	—	—	—	—
8 (R)	Ground	Horizontal synchronizing (HP) signal	Output	Ignition switch ON	—	<p style="text-align: right;">SKIB3601E</p>

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< ECU DIAGNOSIS >

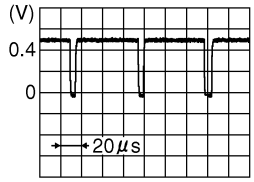
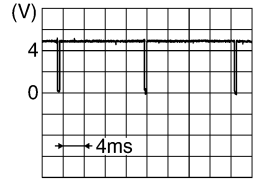
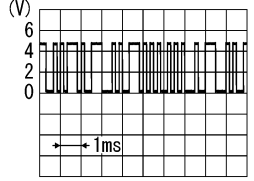
[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition	Reference value (Approx.)	
+	-	Signal name	Input/ Output			
9 (B)*1 (L)*2	Ground	RGB area (YS) signal	Input	Ignition switch ON	5 V	
				At rear view camera image is displayed	 <p style="text-align: right; font-size: small;">PKIB4948J</p>	
11 (BR)	Ground	Communication signal (CONT→DISP)	Input	Ignition switch ON	When adjusting display-brightness.	 <p style="text-align: right; font-size: small;">PKIB5039J</p>
12 (W)	Ground	Camera image signal	Input	Ignition switch ON	At rear view camera image is displayed	 <p style="text-align: right; font-size: small;">SKIB2251J</p>
13 (B)	Ground	GND	—	Ignition switch ON	—	0 V
14	—	Shield	—	—	—	—
15 (L)	5 (R)	AUX image signal	Input	Ignition switch ON	At AUX image is displayed	 <p style="text-align: right; font-size: small;">SKIB2251J</p>
17 (W)	Ground	RGB signal (R: red)	Input	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 <p style="text-align: right; font-size: small;">SKIB2238J</p>
18 (R)	Ground	RGB signal (B: blue)	Input	Ignition switch ON	Start confirmation/adjustment mode, and then display color bar by selecting "Color Spectrum Bar" on DISPLAY DIAGNOSIS screen.	 <p style="text-align: right; font-size: small;">SKIB2237J</p>

DISPLAY UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
19 (G)	Ground	RGB synchronizing signal	Input	Ignition switch ON	—	 <p>JPNIA0461GB</p>
20 (W)	Ground	Vertical synchronizing (VP) signal	Output	Ignition switch ON	—	 <p>SKIB3598E</p>
21	—	Shield	—	—	—	—
22 (Y)	Ground	Communication signal (DISP→CONT)	Output	Ignition switch ON	When adjusting display- brightness.	 <p>PKIB5039J</p>
23	—	Shield	—	—	—	—

*1: With rear view camera.

*2: Without rear view camera.

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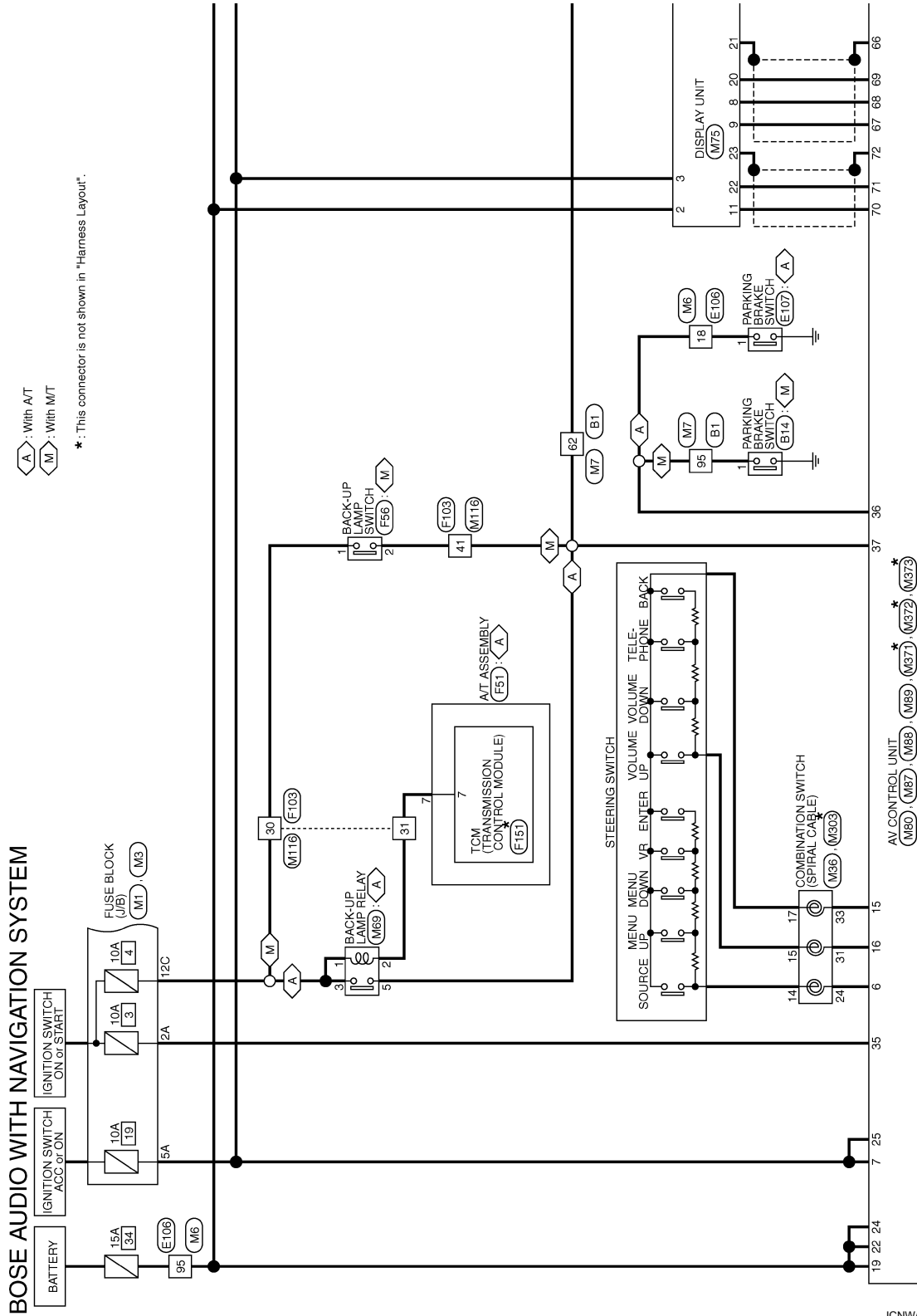
DISPLAY UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM -

INFOID:000000001689694



2007/05/18

JCNWA0480GE

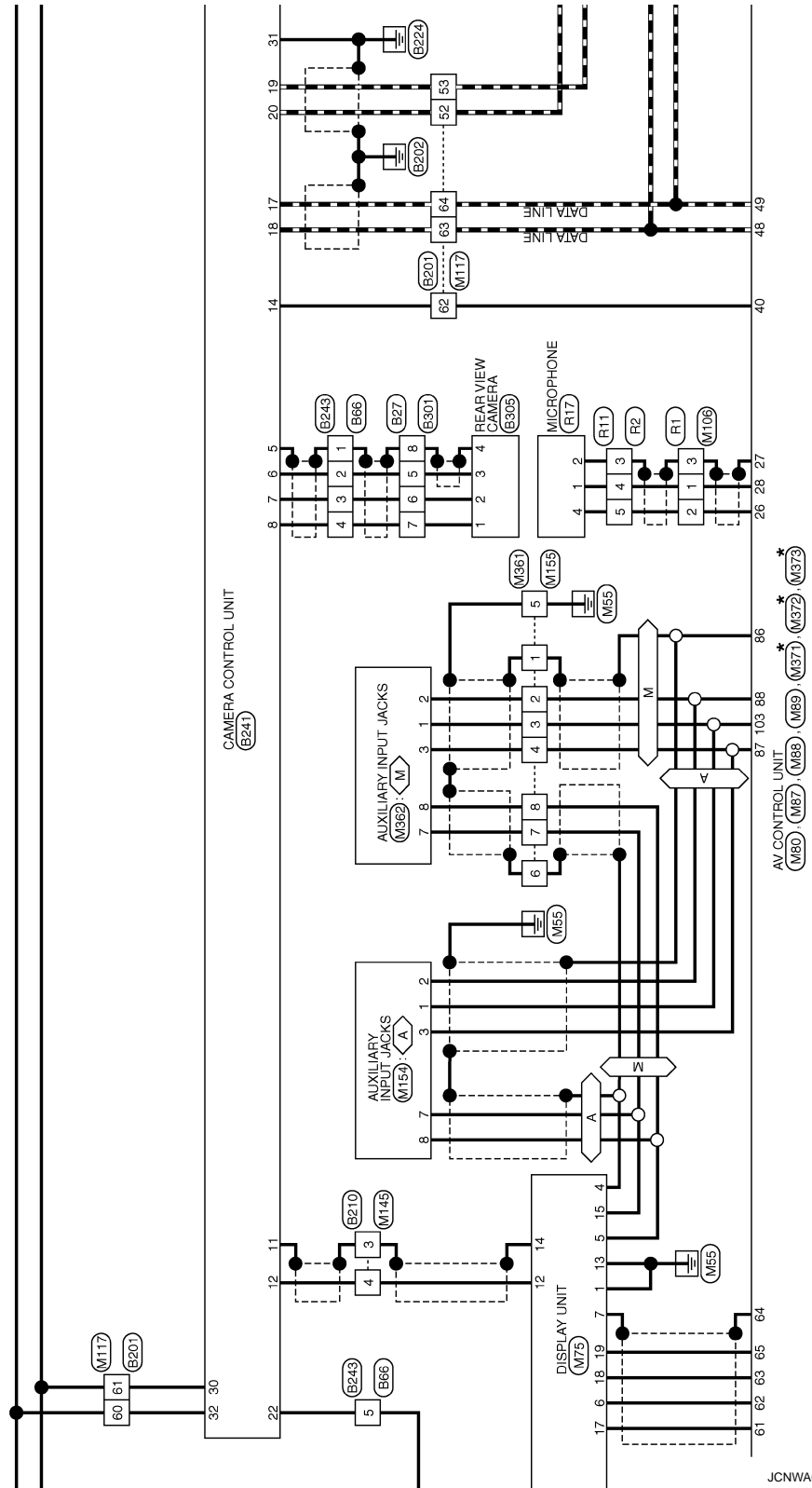
DISPLAY UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

◁ A : With A/T
 ▷ M : With M/T

*: This connector is not shown in "Harness Layout".



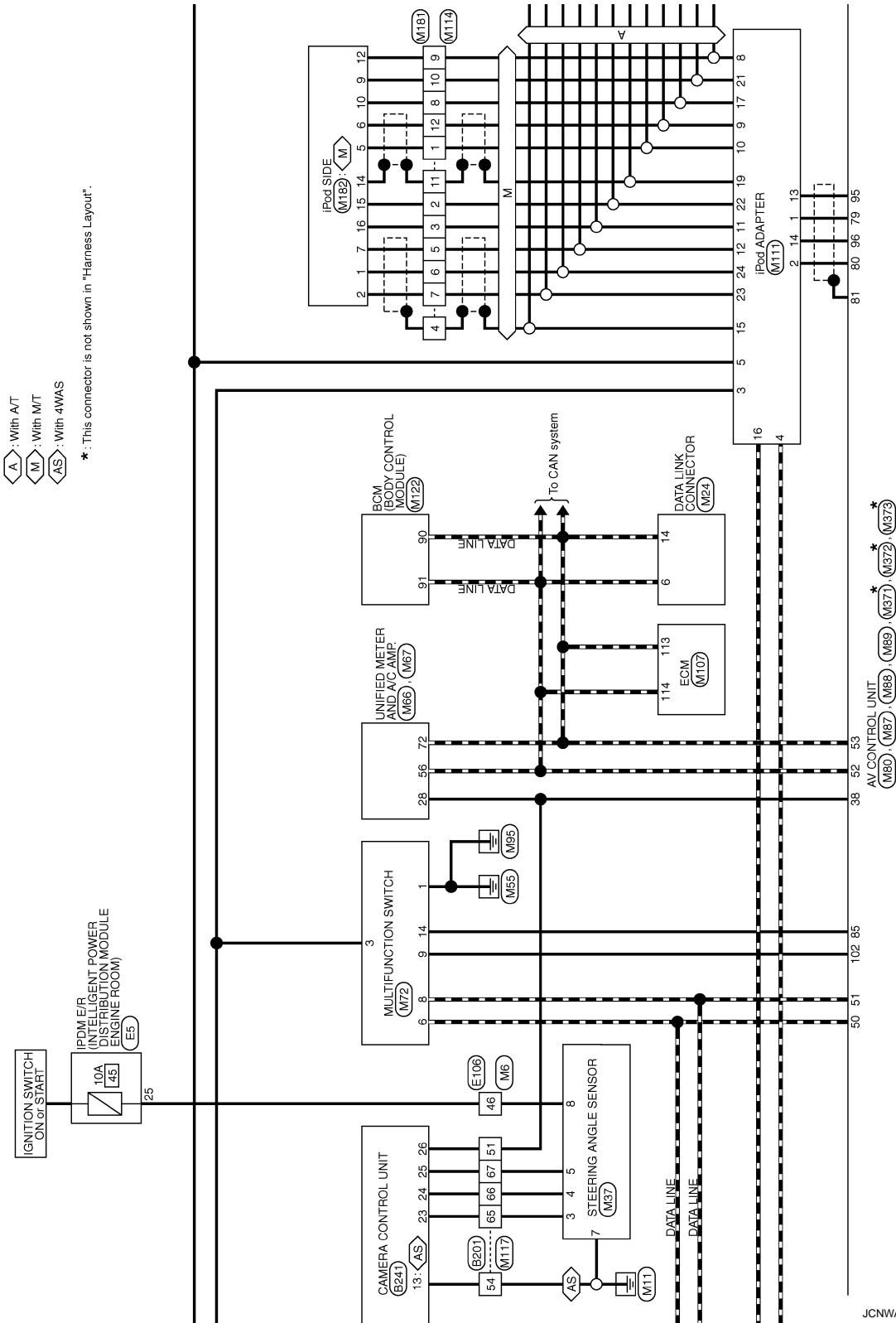
JCNWA0481GE

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DISPLAY UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >



◊ : With A/T
 ◊ : With M/T
 ◊ : With 4WAS

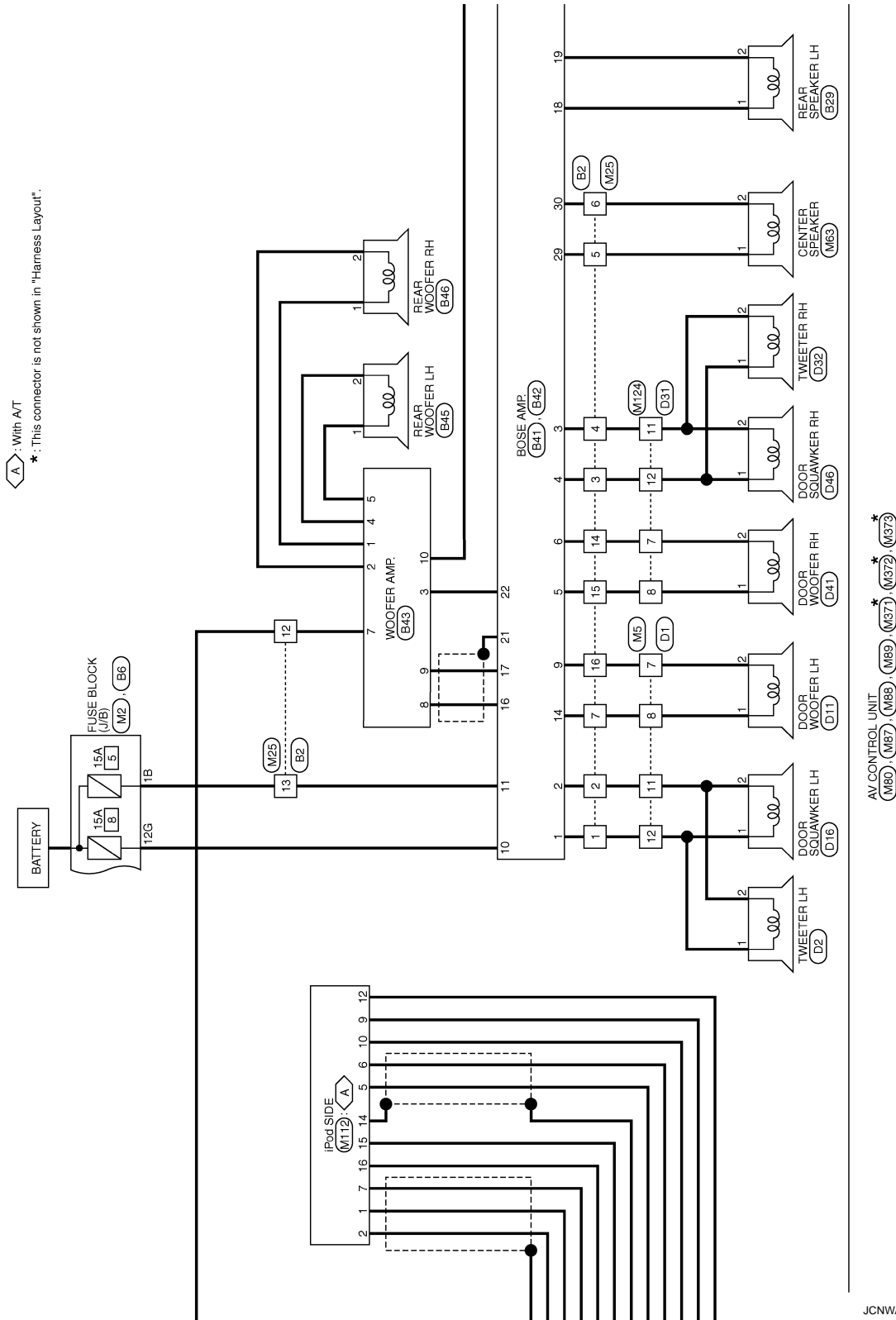
*: This connector is not shown in "Harness Layout".

JCNWA0482GE

DISPLAY UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >



△ : With A/T
 * : This connector is not shown in "Harness Layout".

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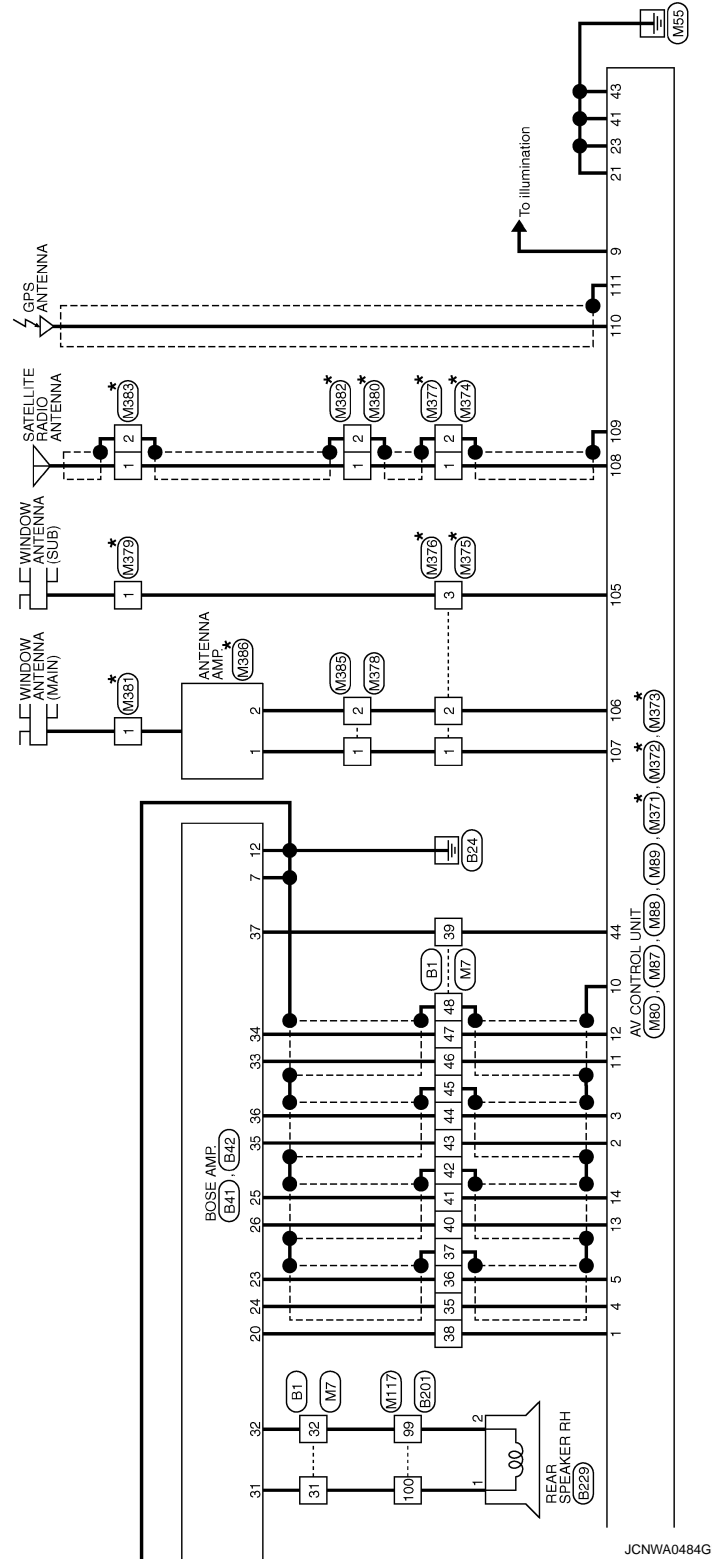
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< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

*: This connector is not shown in "Harness Layout".



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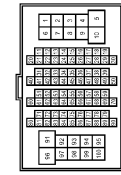
DISPLAY UNIT

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[BOSE AUDIO WITH NAVIGATION]

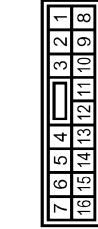
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



44	L	-
45	SHIELD	-
46	F	-
47	G	-
48	SHIELD	-
49	O	-
50	V	-

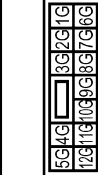
Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
31	LG	-
32	Y	-
35	V	-
36	SB	-
37	SHIELD	-
38	W	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	V	-
4	LG	-
5	L	-
6	O	-
7	B	-
12	Y	-
13	GR	-
14	R	-
15	G	-

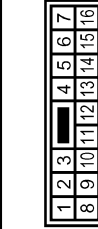
Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



Connector No.	B14
Connector Name	PARKING BRAKE SWITCH (M/T)
Connector Type	P01FB-A



Connector No.	B27
Connector Name	WIRE TO WIRE
Connector Type	NS38MW-CS



Terminal No.	IZG	Y	-
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Terminal No.	1	V	-
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Connector No.	B29
Connector Name	REAR SPEAKER LH
Connector Type	TK02MBR-P



Terminal No.	1	L	-
Terminal No.	2	P	-

16	W	-
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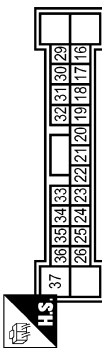
DISPLAY UNIT

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[BOSE AUDIO WITH NAVIGATION]

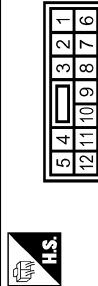
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FER-SG44



Terminal No.	Color of Wire	Signal Name [Specification]
16	SB	SOUND SIGNAL WOOFER (+)
17	V	SOUND SIGNAL WOOFER (-)
18	L	SOUND SIGNAL REAR LH (+)
19	P	SOUND SIGNAL REAR LH (-)
20	W	AMP_ON SIGNAL
21	SHIELD	SHIELD
22	GR	WOOFER AMP_ON SIGNAL
23	SB	SOUND SIGNAL REAR LH (+)
24	V	SOUND SIGNAL REAR LH (-)
25	Y	SOUND SIGNAL REAR RH (+)
26	BR	SOUND SIGNAL REAR RH (-)

Connector No.	B43
Connector Name	WOOFER AMP.
Connector Type	NS12PW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR WOOFER RH (+)
2	R	REAR WOOFER RH (-)
3	GR	WOOFER AMP_ON SIGNAL
4	B	REAR WOOFER LH (+)
5	W	REAR WOOFER LH (-)
7	Y	BATTERY
8	SB	SOUND SIGNAL WOOFER (+)
9	V	SOUND SIGNAL WOOFER (-)
10	B	GND

29	L	SOUND SIGNAL CENTER (+)
30	O	SOUND SIGNAL CENTER (-)
31	LG	SOUND SIGNAL REAR RH (+)
32	V	SOUND SIGNAL REAR RH (-)
33	R	SOUND SIGNAL FRONT RH (+)
34	G	SOUND SIGNAL FRONT RH (-)
35	P	SOUND SIGNAL FRONT LH (+)
36	L	SOUND SIGNAL FRONT LH (-)
37	SB	MODE CHANGE SIGNAL

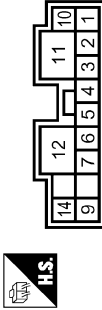
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	DOOR SQUAWKER LH (+)
2	W	DOOR SQUAWKER LH (-)
3	LG	DOOR SQUAWKER RH (-)
4	V	DOOR SQUAWKER RH (+)
5	G	DOOR WOOFER RH (+)
6	R	DOOR WOOFER RH (-)
7	B	GND
9	W	DOOR WOOFER LH (-)
10	Y	BATTERY
11	GR	BATTERY
12	B	GND

Connector No.	B46
Connector Name	REAR WOOFER RH
Connector Type	NS32PW-CS

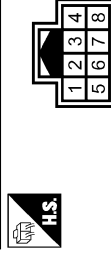


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA12FER-SJA2



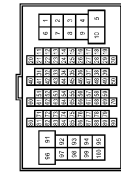
Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TR038MP-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	W	-
4	R	-
5	O	-

BOSE AUDIO WITH NAVIGATION SYSTEM

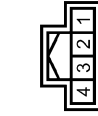
Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH02PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
51	V	-
52	L	- [With rear view camera]
53	P	- [With rear view camera]
54	B	-
60	BR	-
61	LG	-
62	GR	-
63	L	-
64	P	-
65	Y	-
66	SB	-

67	O	-
99	P	-
100	L	-

Connector No.	B210
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-

Connector No.	B229
Connector Name	REAR SPEAKER RH
Connector Type	TH02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	-

Connector No.	B241
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH02PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	B	CAMERA IMAGE SIGNAL
7	W	GND
8	R	CAMERA ON SIGNAL
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
13	B	CONTROL SIGNAL
14	GR	CONNECTION RECOGNITION
17	P	AV COMM (L)
18	L	AV COMM (R)
19	R	AV COMM (L)

20	G	AV COMM (R)
22	GR	REVERSE
23	Y	SENSOR SIGNAL 1
24	SB	SENSOR SIGNAL 2
25	O	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	BR	BATTERY

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	W	-
4	R	-
5	GR	-

Connector No.	B301
Connector Name	WIRE TO WIRE
Connector Type	HS08PW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-
6	W	-
7	R	-
8	SHIELD	-

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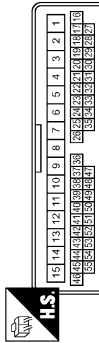
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B305
Connector Name	REAR VIEW CAMERA
Connector Type	TH04MW-RH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	CAMERA ON SIGNAL
2	W	GND
3	Y	CAMERA IMAGE SIGNAL
4	SHIELD	SHIELD

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D2
Connector Name	TWEETER LH
Connector Type	TK02MBR-P



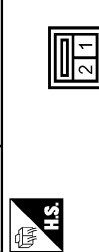
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D11
Connector Name	DOOR WOOFER LH
Connector Type	NS02FW-CS



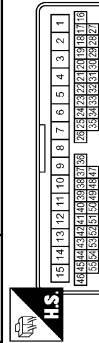
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	D16
Connector Name	DOOR SQUAWKER LH
Connector Type	TK02FBR



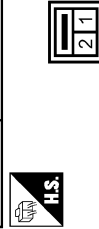
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



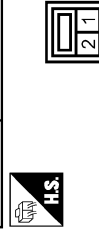
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D22
Connector Name	TWEETER RH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D41
Connector Name	DOOR WOOFER RH
Connector Type	NS02FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

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BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	D48
Connector Name	DOOR SQUAWKER RH
Connector Type	TK02BR



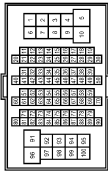
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	E5
Connector Name	IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-TV



Terminal No.	Color of Wire	Signal Name [Specification]
25	G	-

Connector No.	F105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM



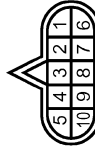
Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
46	W	-
95	Y	-

Connector No.	F107
Connector Name	PARKING BRAKE SWITCH (A/T)
Connector Type	TB01FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



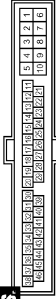
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-

Connector No.	F56
Connector Name	BACK-UP LAMP SWITCH
Connector Type	RK02FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK68FW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
30	R	-
31	R	-
41	O	-

Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FBGY



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

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BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS36FW-M2



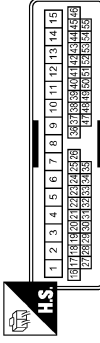
Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



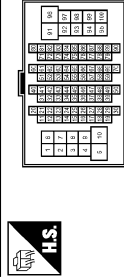
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	L	-

Terminal No.	Color of Wire	Signal Name [Specification]
1B	SB	-

Terminal No.	Color of Wire	Signal Name [Specification]
12C	R	-

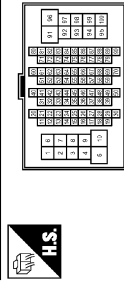
Terminal No.	Color of Wire	Signal Name [Specification]
7	W	-
8	B	-
11	W	-
12	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH30MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
46	G	-
95	Y	-

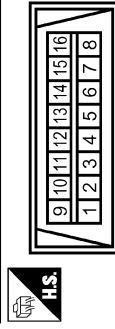
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH30MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	P	-
35	O	-
36	W	-
37	SHIELD	-
38	SB	-
39	SR	-
40	BR	-
41	Y	-
42	SHIELD	-
43	O	-

44	W	-
45	SHIELD	-
46	R	-
47	G	-
48	SHIELD	-
62	O	-
95	O	-

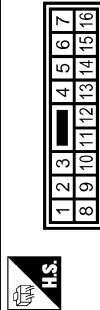
Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD19FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

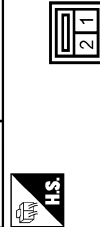
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	1516MWC-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	GR	-
5	L	-
6	LG	-
7	B	-
12	Y	-
13	SB	-
14	R	-
15	G	-

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	LG	-

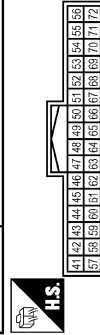
16	W	-
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Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-TV



Terminal No.	Color of Wire	Signal Name [Specification]
24	G	-
31	L	-
33	B	-

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



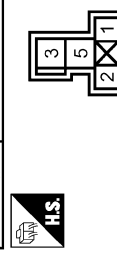
Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	O	SENSOR3
7	B	GND
8	G	IGN

Connector No.	M89
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2



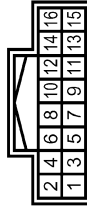
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

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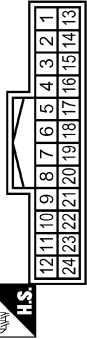
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



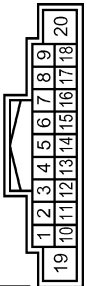
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	L	ACC
3	SB	AV COMM (H)
4	W	AV COMM (L)
5	BR	SW GND
6	BR	EJECT SIGNAL [With NAVI]
7	SB	
8	R	
9	R	
10	R	
11	R	
12	R	
13	R	
14	R	
15	R	
16	R	

Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	LG	ACC
4	SHIELD	SHIELD
5	R	AUX IMAGE GND
6	B	RGB (GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (YS) SIGNAL [With rear view camera]
10	BR	COMM (CONT-2)DISP
11	BR	COMM (CONT-2)DISP
12	W	CAMERA IMAGE SIGNAL

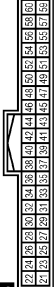
Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	AMP_ON SIGNAL
2	O	SOUND SIGNAL FRONT LH (+)
3	W	SOUND SIGNAL FRONT LH (-)
4	O	SOUND SIGNAL REAR LH (+)
5	W	SOUND SIGNAL REAR LH (-)
6	G	STRG SW A
7	Y	ACC
8	Y	ACC
9	L	ILLUMINATION
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (+)
12	G	SOUND SIGNAL FRONT RH (-)

13	B	GND
14	SHIELD	SHIELD
15	G	AUX IMAGE SIGNAL
17	W	RGB (RED) SIGNAL
18	R	RGB (BLUE) SIGNAL
19	C	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	Y	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
35	G	IGNITION
36	SB	PARKING BRAKE
37	O	REVERSE

38	GR	VEHICLE SPEED (8-PULSE)
40	W	CONNECTION RECOGNITION
41	B	CONTROL SIGNAL 1
43	B	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
48	L	AV COMM (H)
49	P	AV COMM (L)
50	V	AV COMM (H)
51	LG	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH

72	SHIELD
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Terminal No.	Color of Wire	Signal Name [Specification]
61	W	RGB (RFRED) SIGNAL
62	B	RGB (GGREEN) SIGNAL
63	R	RGB (BBLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (YS) SIGNAL (With rear view camera)
68	R	HP
69	W	VP
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FPW-NH

73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
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Terminal No.	Color of Wire	Signal Name [Specification]
79	R	iPod SOUND SIGNAL LH (+)
80	B	iPod SOUND SIGNAL RH (+)
81	SHIELD	SHIELD
85	LG	EJECT SIGNAL (With rear view camera)
86	SHIELD	SHIELD
87	W	AUX SOUND SIGNAL LH (+)
88	B	AUX SOUND SIGNAL GND
95	W	iPod SOUND SIGNAL LH (-)
96	G	iPod SOUND SIGNAL RH (-)
102	BR	SW GND
103	R	AUX SOUND SIGNAL RH (+)

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGV-R28-R-LH-Z

128	124	120	116	112	108	104	100
127	123	119	115	111	107	103	99
126	122	118	114	110	106	102	98
125	121	117	113	109	105	101	97

Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-LI
114	L	VEHCAN-HI

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FW-NH

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER (With A/T)
9	L	CHARGE POWER (With M/T)
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	W	iPod SOUND SIGNAL RH (+)

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MPF-NS

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18		

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-- [With NAVI]
2	G	-- [With NAVI]
3	SHIELD	-- [With NAVI]

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP16FGY

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16		

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

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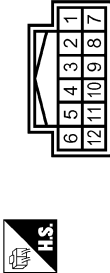
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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

12	P	-
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Connector No.	M114
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

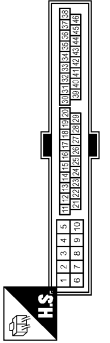
67	O	-
68	P	-
100	L	-

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH160MW-CS16-TM4



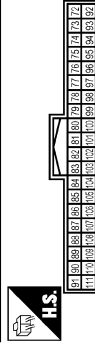
Terminal No.	Color of Wire	Signal Name [Specification]
51	P	-
52	V	-
53	LG	-
54	B	-
60	Y	-
61	SB	-
62	W	-
63	L	-
64	P	-
65	L	-
66	BR	-

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TH38MW-NS/D



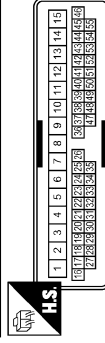
Terminal No.	Color of Wire	Signal Name [Specification]
30	LG	-
31	W	-
41	O	-

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	GR	-
12	BR	-

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M145
Connector Name	WIRE TO WIRE
Connector Type	TH2MWW-NH



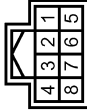
Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB8EW



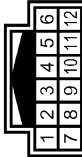
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+)
2	B	SOUND SIGNAL GND [With NAVI]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M155
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	- [With NAVI]
3	R	-
4	W	-
5	B	-
6	SHIELD	-
7	G	-
8	R	-

Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

12	P	-
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Connector No.	M182
Connector Name	I-POD SIDE
Connector Type	IP16FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	I-Pod SOUND SIGNAL LH (+)
2	R	I-Pod SOUND SIGNAL GND
5	L	COMM (I-Pod->I-Pod ADAPTER)
6	P	COMM (I-Pod ADAPTER->I-Pod)
7	W	I-Pod SOUND SIGNAL RH (+)
9	W	I-Pod CONNECTION RECOGNITION
10	BR	GND
12	UL	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
14	W	-
15	L	-
17	BR	-

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BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M381
Connector Name	WIRE TO WIRE
Connector Type	TH8BWW-RH



Connector No.	M382
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB8EW



Connector No.	M371
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SH-2/1S-HU



Connector No.	M372
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAK8A-JACK



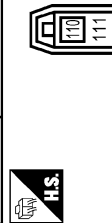
Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	R	-
4	W	-
5	SHIELD	-
6	SHIELD	-
7	G	-
8	R	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+) [With NAVI]
2	B	SOUND SIGNAL GND [With NAVI]
3	W	SOUND SIGNAL LH (+)
4	W	AUX IMAGE SIGNAL
5	R	AUX IMAGE GND

Terminal No.	Color of Wire	Signal Name [Specification]
105	-	FM SUB
106	-	AM-FM MAIN
107	-	AM/FM AMP. ON SIGNAL

Terminal No.	Color of Wire	Signal Name [Specification]
108	-	SAETLLITE ANTENNA
109	SHIELD	SHIELD

Connector No.	M373
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT9-1S-HU



Connector No.	M374
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU



Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
110	-	GPS ANTENNA
111	SHIELD	SHIELD

Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	SHIELD	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M377	Connector No.	M378	Connector No.	M379	Connector No.	M380
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WINDOW ANTENNA (SUB)	Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU	Connector Type	GT13SCH-1/1PP-HU	Connector Type	P01FB-A	Connector Type	GT16C-1PP-HU

Terminal No.	1	2	Terminal No.	1	2	Terminal No.	1	2	Terminal No.	1	2
Color of Wire	-	-	Color of Wire	-	-	Color of Wire	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-	-



Connector No.	M381	Connector No.	M382	Connector No.	M383	Connector No.	M385
Connector Name	WINDOW ANTENNA (MAIN)	Connector Name	WIRE TO WIRE	Connector Name	SATELLITE RADIO ANTENNA	Connector Name	WIRE TO WIRE
Connector Type	P01FB-A	Connector Type	GT16C-1S-HU	Connector Type	GT16C-1PP-HU	Connector Type	GT13SC-1/1S-HU

Terminal No.	1	2	Terminal No.	1	2	Terminal No.	1	2	Terminal No.	1	2
Color of Wire	-	-	Color of Wire	-	-	Color of Wire	-	-	Color of Wire	-	-
Signal Name [Specification]	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-	-



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BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M386
Connector Name	ANTENNA AMP.
Connector Type	GTJ3SC-1/1S-HU



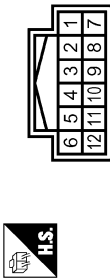
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP. ON SIGNAL
2	-	AM-FM MAIN

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TKJDFW-NSB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	- [With NAVI]
2	G	- [With NAVI]
3	SHIELD	- [With NAVI]

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	THJ2FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	R	- [With NAVI]
5	G	- [With NAVI]

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	THJ2MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-
5	R	-

Connector No.	R17
Connector Name	MICROPHONE
Connector Type	TKG4FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	MICROPHONE SIGNAL
2	SHIELD	SHIELD
4	R	MICROPHONE VCC

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NOTE:

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

BOSE AMP.

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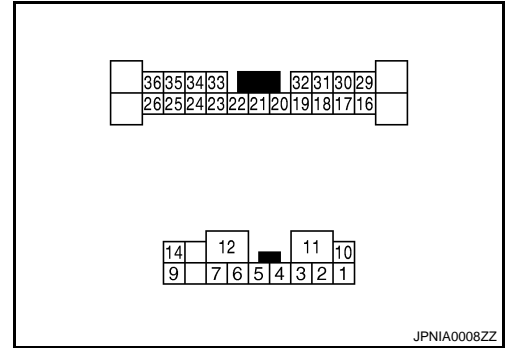
[BOSE AUDIO WITH NAVIGATION]

BOSE AMP.

Reference Value

INFOID:000000001558912

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/Output			
1 (L)	2 (W)	Sound signal door squawker LH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>
4 (V)	3 (LG)	Sound signal door squawker RH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>
5 (G)	6 (R)	Sound signal door woofer RH	Output	Ignition switch ON	Voice output	<p>SKIB3609E</p>
7 (B)	Ground	GND	—	Ignition switch ON	—	0 V
10 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
11 (GR)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
12 (B)	Ground	GND	—	Ignition switch ON	—	0 V

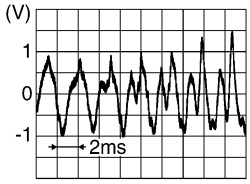
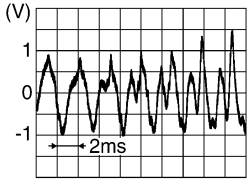
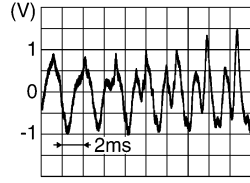
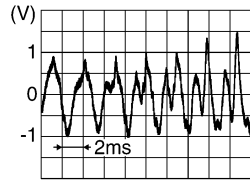
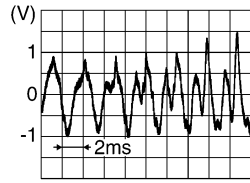
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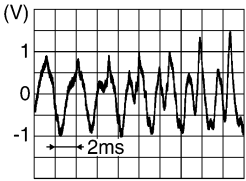
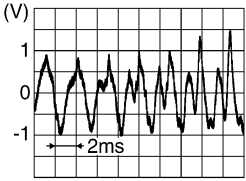
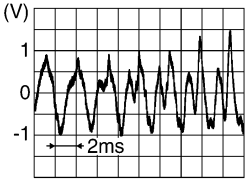
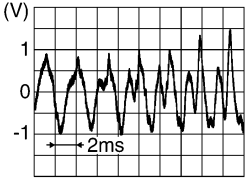
[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
14 (B)	9 (W)	Sound signal door woofer LH	Output	Ignition switch ON	Voice output	 SKIB3609E
16 (SB)	17 (V)	Sound signal rear woofer	Output	Ignition switch ON	Voice output	 SKIB3609E
18 (L)	19 (P)	Sound signal rear speaker LH	Output	Ignition switch ON	Voice output	 SKIB3609E
20 (W)	Ground	Amp. ON signal	Input	Ignition switch ACC	—	10 V
21	—	Shield	—	—	—	—
22 (GR)	Ground	Woofer Amp. ON signal	Output	Ignition switch ACC	—	10 V
24 (V)	23 (SB)	Sound signal rear LH	Input	Ignition switch ON	Voice output	 SKIB3609E
26 (BR)	25 (Y)	Sound signal rear RH	Input	Ignition switch ON	Voice output	 SKIB3609E

BOSE AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
29 (L)	30 (O)	Sound signal center speaker	Output	Ignition switch ON	Voice output	
31 (LG)	32 (Y)	Sound signal rear speaker RH	Output	Ignition switch ON	Voice output	
33 (R)	34 (G)	Sound signal front RH	Input	Ignition switch ON	Voice output	
35 (P)	36 (L)	Sound signal front LH	Input	Ignition switch ON	Voice output	
37 (SB)	Ground	Mode change signal	Input	Ignition switch ON	Driver's Audio Stage ON	0 V
				Ignition switch OFF	Driver's Audio Stage OFF	8.5 V

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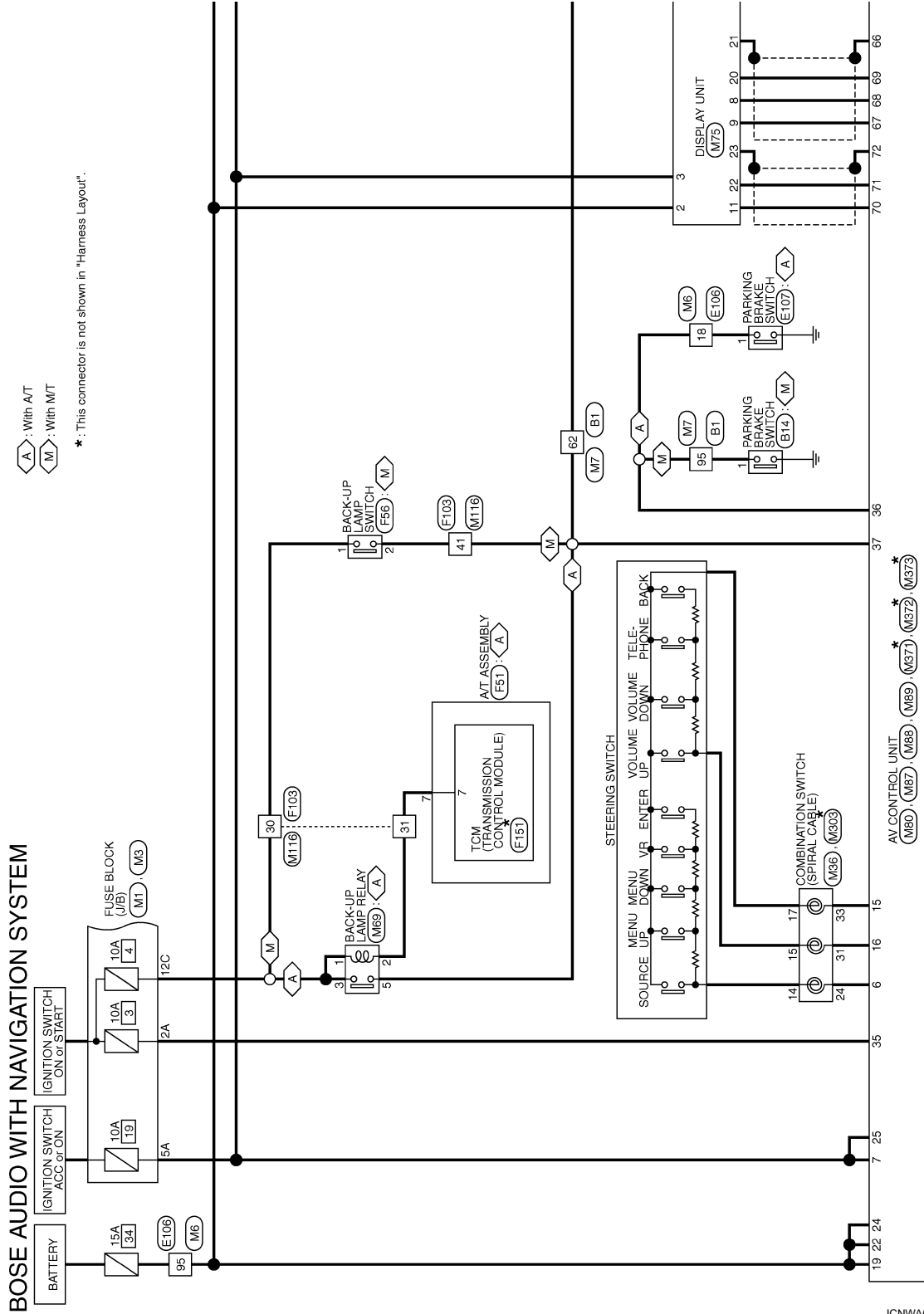
BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]

Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM -

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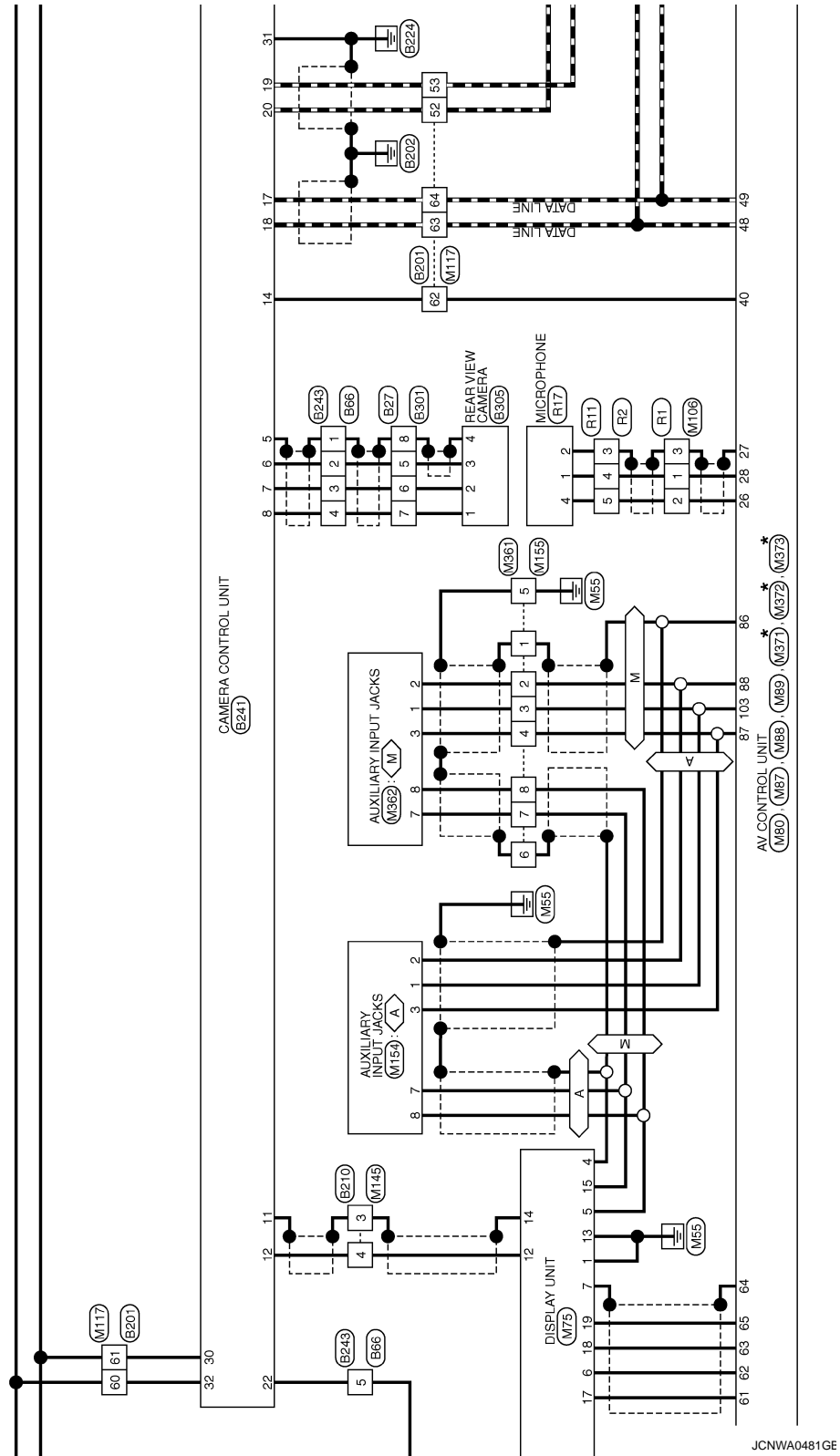
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[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

 : With AT
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*: This connector is not shown in "Harness Layout".



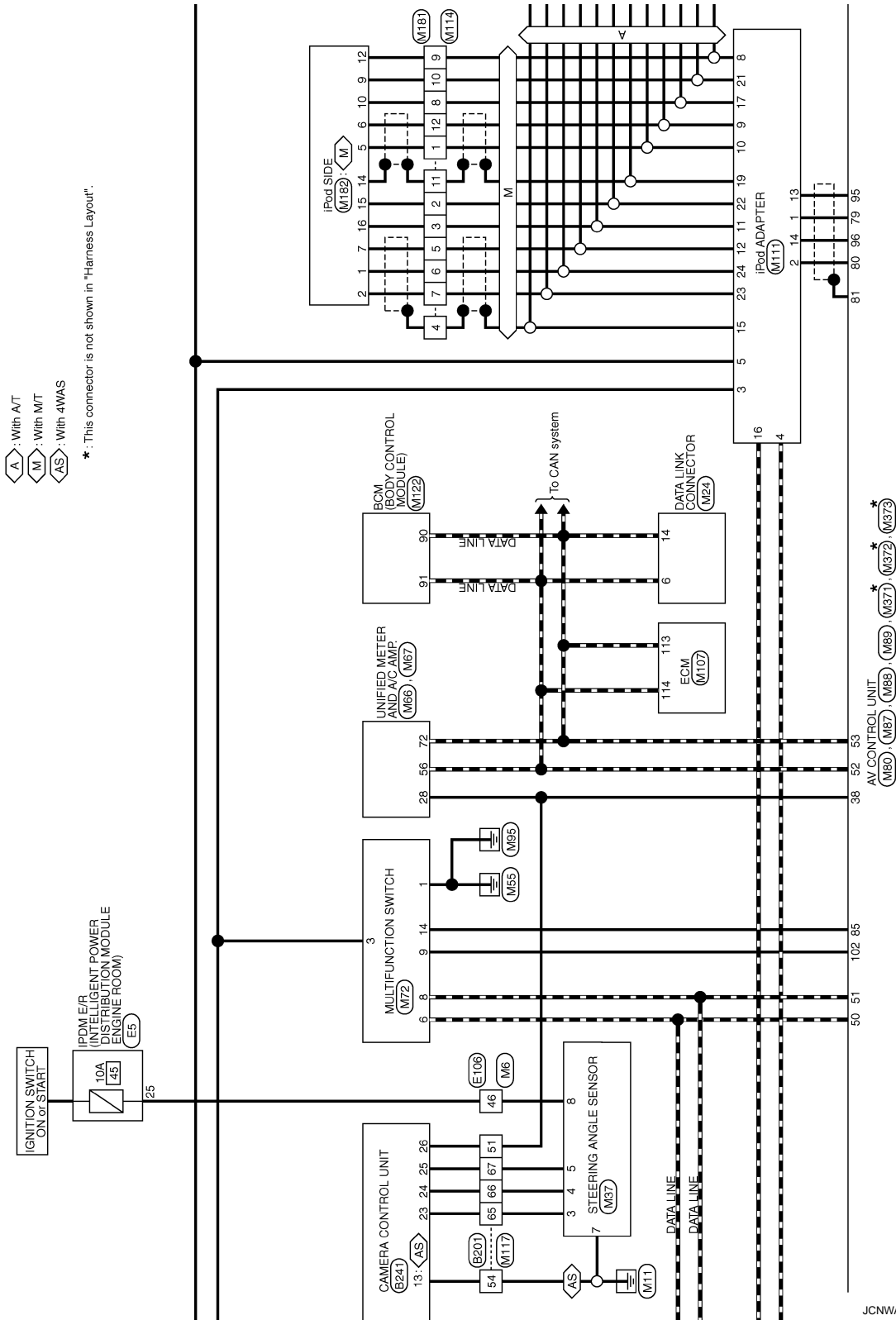
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BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]

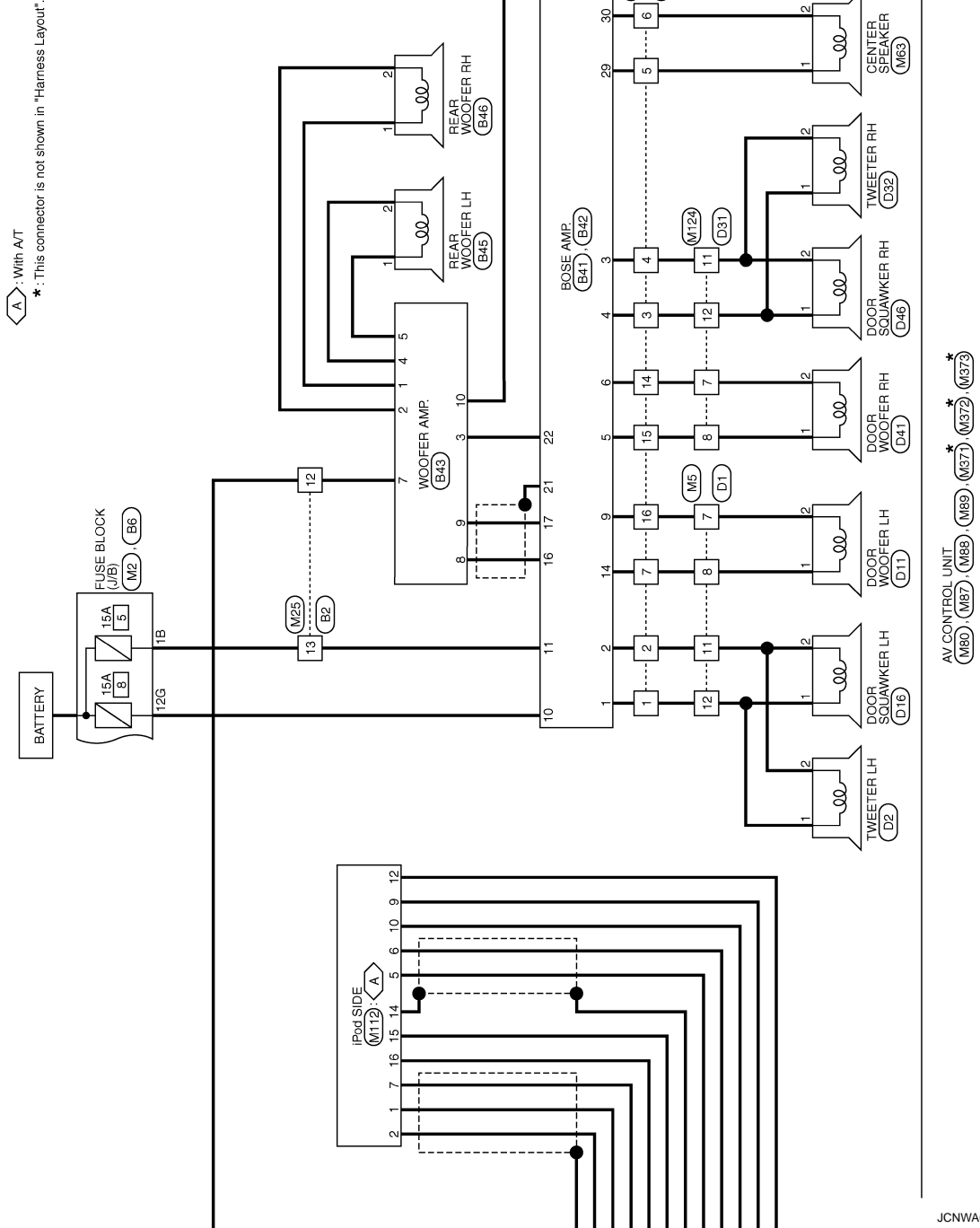


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BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]



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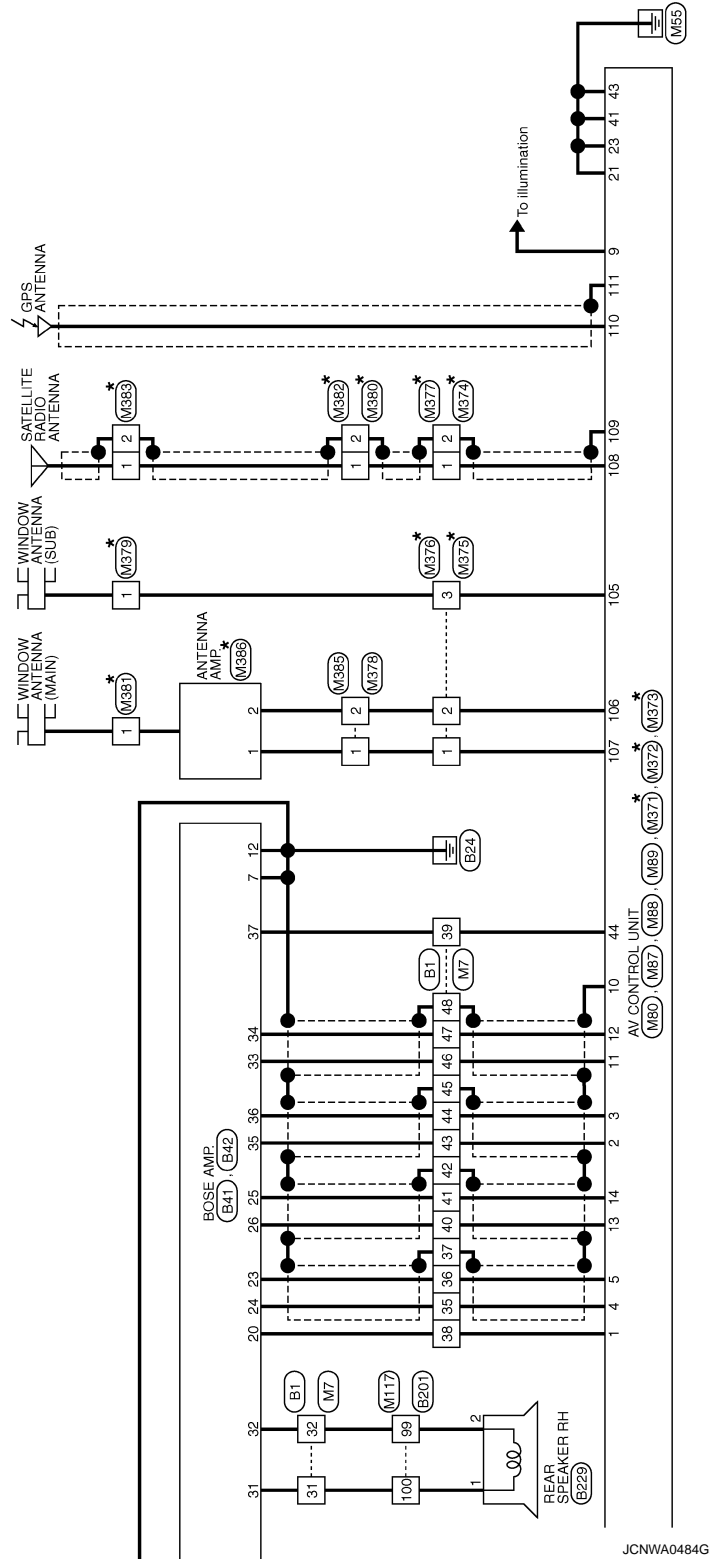
AV

BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]

*: This connector is not shown in "Harness Layout".



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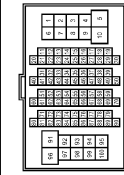
BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH00TW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	LG	-
32	Y	-
35	V	-
36	SB	-
37	SHIELD	-
38	W	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	P	-

Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



Terminal No.	IZG	Y	-
Color of Wire			
Signal Name [Specification]			

44	L	-
45	SHIELD	-
46	F	-
47	G	-
48	SHIELD	-
82	O	-
95	V	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	V	-
4	LG	-
5	L	-
6	O	-
7	B	-
12	Y	-
13	GR	-
14	R	-
15	G	-

Connector No.	B27
Connector Name	WIRE TO WIRE
Connector Type	NS38MW-CS



Terminal No.	5	B	-
Color of Wire			
Signal Name [Specification]			
6	W	-	
7	R	-	
8	SHIELD	-	

16	W	-
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Connector No.	B29
Connector Name	REAR SPEAKER LH
Connector Type	TK02MBR-P



Terminal No.	1	L	-
Color of Wire			
Signal Name [Specification]			
2	P	-	

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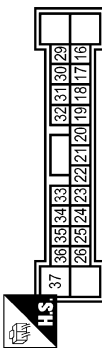
BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]

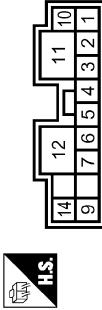
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FER-SG44



29	L	SOUND SIGNAL CENTER (+)
30	O	SOUND SIGNAL CENTER (-)
31	LG	SOUND SIGNAL REAR RH (+)
32	V	SOUND SIGNAL REAR RH (-)
33	R	SOUND SIGNAL FRONT RH (+)
34	G	SOUND SIGNAL FRONT RH (-)
35	P	SOUND SIGNAL FRONT LH (+)
36	L	SOUND SIGNAL FRONT LH (-)
37	SB	MODE CHANGE SIGNAL

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SCA12FER-SJA2

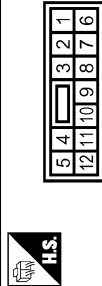


14	B	DOOR WOOFER LH (+)
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Terminal No.	Color of Wire	Signal Name [Specification]
16	SB	SOUND SIGNAL WOOFER (+)
17	V	SOUND SIGNAL WOOFER (-)
18	L	SOUND SIGNAL REAR LH (+)
19	P	SOUND SIGNAL REAR LH (-)
20	W	AMP_ON SIGNAL
21	SHIELD	
22	GR	WOOFER AMP_ON SIGNAL
23	SB	SOUND SIGNAL REAR LH (+)
24	V	SOUND SIGNAL REAR LH (-)
25	Y	SOUND SIGNAL REAR RH (+)
26	BR	SOUND SIGNAL REAR RH (-)

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	DOOR SQUAWKER LH (+)
2	W	DOOR SQUAWKER LH (-)
3	LG	DOOR SQUAWKER RH (+)
4	V	DOOR SQUAWKER RH (-)
5	G	DOOR WOOFER RH (+)
6	R	DOOR WOOFER RH (-)
7	B	GND
9	W	DOOR WOOFER LH (+)
10	Y	BATTERY
11	GR	BATTERY
12	B	GND

Connector No.	B43
Connector Name	WOOFER AMP.
Connector Type	NS12PW-CS



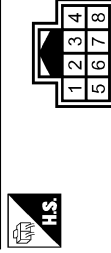
Connector No.	B45
Connector Name	REAR WOOFER LH
Connector Type	NS22PW-CS



Connector No.	B46
Connector Name	REAR WOOFER RH
Connector Type	NS22PW-CS



Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TR038MP-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR WOOFER RH (+)
2	R	REAR WOOFER RH (-)
3	GR	WOOFER AMP_ON SIGNAL
4	B	REAR WOOFER LH (+)
5	W	REAR WOOFER LH (-)
7	Y	BATTERY
8	SB	SOUND SIGNAL WOOFER (+)
9	V	SOUND SIGNAL WOOFER (-)
10	B	GND

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	
2	B	

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	
2	R	

Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	
2	B	
3	W	
4	R	
5	O	

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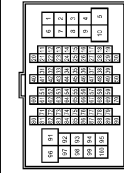
BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

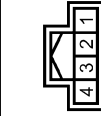
Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH02PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
51	V	-
52	L	- [With rear view camera]
53	P	- [With rear view camera]
54	B	-
60	BR	-
61	LG	-
62	GR	-
63	L	-
64	P	-
65	Y	-
66	SB	-

67	O	-
99	P	-
100	L	-

Connector No.	B210
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH



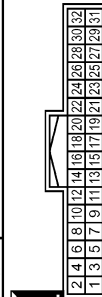
Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-

Connector No.	B229
Connector Name	REAR SPEAKER RH
Connector Type	TH02MR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	-

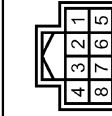
Connector No.	B241
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH02PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	B	CAMERA IMAGE SIGNAL
7	W	GND
8	R	CAMERA ON SIGNAL
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
13	B	CONTROL SIGNAL
14	GR	CONNECTION RECOGNITION
17	P	AV COMM (L)
18	L	AV COMM (R)
19	R	AV COMM (L)

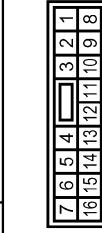
20	G	AV COMM (R)
22	GR	REVERSE
23	Y	SENSOR SIGNAL 1
24	SB	SENSOR SIGNAL 2
25	O	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	BR	BATTERY

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	W	-
4	R	-
5	GR	-

Connector No.	B301
Connector Name	WIRE TO WIRE
Connector Type	HS08PW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-
6	W	-
7	R	-
8	SHIELD	-

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[BOSE AUDIO WITH NAVIGATION]

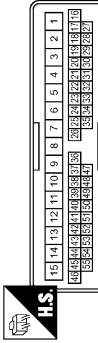
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B305
Connector Name	REAR VIEW CAMERA
Connector Type	TH04MW-RH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	CAMERA ON SIGNAL
2	W	GND
3	Y	CAMERA IMAGE SIGNAL
4	SHIELD	SHIELD

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D2
Connector Name	TWEETER LH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D11
Connector Name	DOOR WOOFER LH
Connector Type	NS02FW-CS



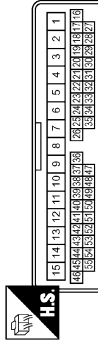
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	D16
Connector Name	DOOR SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D22
Connector Name	TWEETER RH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D41
Connector Name	DOOR WOOFER RH
Connector Type	NS02FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

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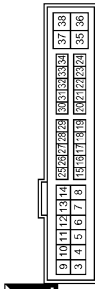
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	D48
Connector Name	DOOR SQUAWKER RH
Connector Type	TK02BR



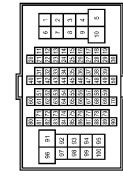
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	E5
Connector Name	IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-TV



Terminal No.	Color of Wire	Signal Name [Specification]
25	G	-

Connector No.	F105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



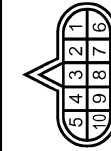
Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
46	W	-
95	Y	-

Connector No.	F107
Connector Name	PARKING BRAKE SWITCH (A/T)
Connector Type	TB01FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



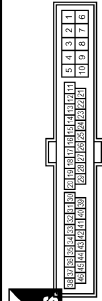
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-

Connector No.	F56
Connector Name	BACK-UP LAMP SWITCH
Connector Type	RK02FB



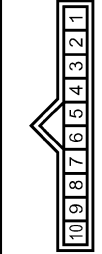
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK68FW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
30	R	-
31	R	-
41	O	-

Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FBGY



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

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BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS36FW-M2



Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	L	-

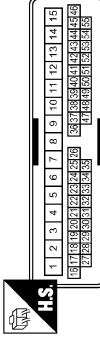
Terminal No.	Color of Wire	Signal Name [Specification]
1B	SB	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



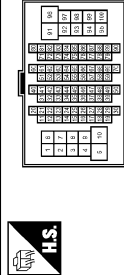
Terminal No.	Color of Wire	Signal Name [Specification]
12C	R	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



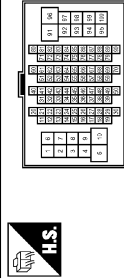
Terminal No.	Color of Wire	Signal Name [Specification]
7	W	-
8	B	-
11	W	-
12	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH30MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
46	G	-
95	Y	-

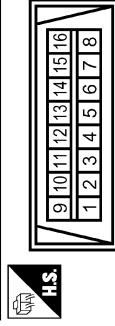
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH30MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	P	-
35	O	-
36	W	-
37	SHIELD	-
38	SB	-
39	SR	-
40	BR	-
41	Y	-
42	SHIELD	-
43	O	-

Terminal No.	Color of Wire	Signal Name [Specification]
44	W	-
45	SHIELD	-
46	R	-
47	G	-
48	SHIELD	-
62	O	-
95	O	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

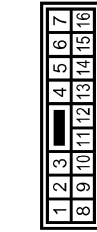
BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	1516MWC-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	GR	-
5	L	-
6	LG	-
7	B	-
12	Y	-
13	SB	-
14	R	-
15	G	-

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	LG	-

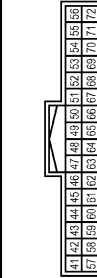
16	W	-
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Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-TV



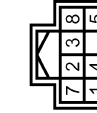
Terminal No.	Color of Wire	Signal Name [Specification]
24	G	-
31	L	-
33	B	-

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



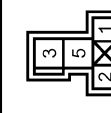
Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	O	SENSOR3
7	B	GND
8	G	IGN

Connector No.	M89
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2



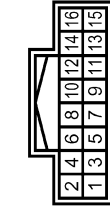
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

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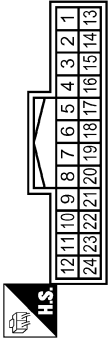
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



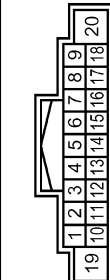
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	L	ACC
6	SB	AV COMM (H)
8	W	AV COMM (L)
9	BR	SW GND
14	SB	EJECT SIGNAL [With NAVI]

Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH



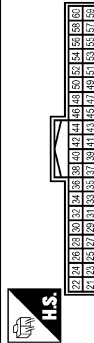
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	LG	ACC
4	SHIELD	SHIELD
5	R	AUX IMAGE GND
6	B	RGB (G/GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (YS) SIGNAL [With rear view camera]
11	BR	COMM (CONT-2)DISP
12	W	CAMERA IMAGE SIGNAL

Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	AMP_ON SIGNAL
2	O	SOUND SIGNAL FRONT LH (+)
3	W	SOUND SIGNAL FRONT LH (-)
4	O	SOUND SIGNAL REAR LH (+)
5	W	SOUND SIGNAL REAR LH (-)
6	G	STRG SW A
7	Y	ACC
9	L	ILLUMINATION
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (+)
12	G	SOUND SIGNAL FRONT RH (-)

Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	Y	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
35	G	IGNITION
36	SB	PARKING BRAKE
37	O	REVERSE

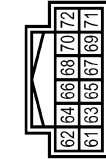
13	B	GND
14	SHIELD	SHIELD
15	G	AUX IMAGE SIGNAL
17	W	RGB (RED) SIGNAL
18	R	RGB (BLUE) SIGNAL
19	C	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

38	GR	VEHICLE SPEED (8-PULSE)
40	W	CONNECTION RECOGNITION
41	B	CONTROL SIGNAL 1
43	B	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
48	L	AV COMM (H)
49	P	AV COMM (L)
50	V	AV COMM (H)
51	LG	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

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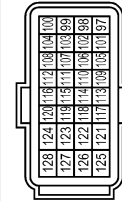
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Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
61	W	RGB (RFRED) SIGNAL
62	B	RGB (GGREEN) SIGNAL
63	R	RGB (BBLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (YS) SIGNAL (With rear view camera)
68	R	HP
69	W	VP
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

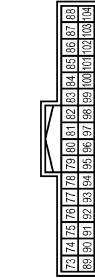
Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGV-R28-R-LH-Z



Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-L1
114	L	VEHCAN-H1

72	SHIELD
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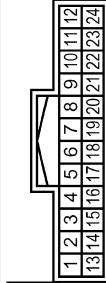
Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH102FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
79	R	iPod SOUND SIGNAL LH (+)
80	B	iPod SOUND SIGNAL RH (+)
81	SHIELD	SHIELD
85	LG	EJECT SIGNAL (With rear view camera)
86	SHIELD	SHIELD
87	W	AUX SOUND SIGNAL LH (+)
88	B	AUX SOUND SIGNAL GND
95	W	iPod SOUND SIGNAL LH (-)
96	G	iPod SOUND SIGNAL RH (-)
102	BR	SW GND
103	R	AUX SOUND SIGNAL RH (+)

13	W	iPod SOUND SIGNAL LH (-)
14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	R	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FW-NH



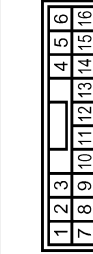
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER (With A/T)
9	L	CHARGE POWER (With M/T)
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	W	iPod SOUND SIGNAL RH (+)

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MPF-NS



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-- [With NAVI]
2	G	-- [With NAVI]
3	SHIELD	-- [With NAVI]

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP16FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
13	G	SHIELD
14	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

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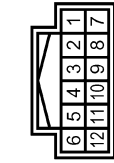
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BOSE AUDIO WITH NAVIGATION SYSTEM

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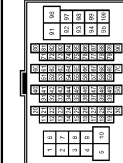
Connector No.	M114
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

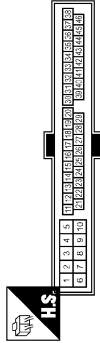
67	O		
68	P		
100	L		

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH160MW-CS16-TM4



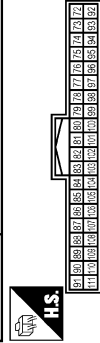
Terminal No.	Color of Wire	Signal Name [Specification]
51	P	-
52	V	-
53	LG	-
54	B	-
60	Y	-
61	SB	-
62	W	-
63	L	-
64	P	-
65	L	-
66	BR	-

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TH36MW-NS/D



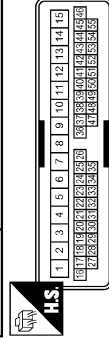
Terminal No.	Color of Wire	Signal Name [Specification]
30	LG	-
31	W	-
41	O	-

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	GR	-
12	BR	-

BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M145
Connector Name	WIRE TO WIRE
Connector Type	TH2MW-NH



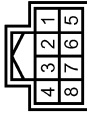
Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB8EW



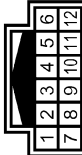
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+)
2	B	SOUND SIGNAL GND [With NAVI]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M155
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	- [With NAVI]
3	R	-
4	W	-
5	B	-
6	SHIELD	-
7	G	-
8	R	-

Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

12	P	-
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Connector No.	M182
Connector Name	I-POD SIDE
Connector Type	IP16FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	I-Pod SOUND SIGNAL LH (+)
2	R	I-Pod SOUND SIGNAL GND
5	L	COMM (I-Pod->I-Pod ADAPTER)
6	P	COMM (I-Pod ADAPTER->I-Pod)
7	W	I-Pod SOUND SIGNAL RH (+)
9	W	I-Pod CONNECTION RECOGNITION
10	BR	GND
12	UL	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
14	W	-
15	L	-
17	BR	-

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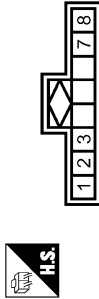
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M381
Connector Name	WIRE TO WIRE
Connector Type	TH08BW-RH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	R	-
4	W	-
5	SHIELD	-
6	SHIELD	-
7	G	-
8	R	-

Connector No.	M382
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB8EW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+) [With NAVI]
2	B	SOUND SIGNAL GND [With NAVI]
3	W	SOUND SIGNAL LH (+)
8	R	AUX IMAGE SIGNAL AUX IMAGE GND

Connector No.	M371
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SH-2/1S-HU



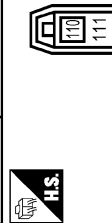
Terminal No.	Color of Wire	Signal Name [Specification]
105	-	FM SUB
106	-	AM-FM MAIN
107	-	AM/FM AMP. ON SIGNAL

Connector No.	M372
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAK8A-JACK



Terminal No.	Color of Wire	Signal Name [Specification]
108	-	SAETLLITE-ANTENNA
109	SHIELD	SHIELD

Connector No.	M373
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT5-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
110	-	GPS ANTENNA
111	SHIELD	SHIELD

Connector No.	M374
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	SHIELD	-

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

BOSE AMP.

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M377	Connector No.	M378	Connector No.	M379	Connector No.	M380
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WINDOW ANTENNA (SUB)	Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU	Connector Type	GT13SCH-1/1PP-HU	Connector Type	P01FB-A	Connector Type	GT16C-1PP-HU

Terminal No.	1	2	Terminal No.	1	2	Terminal No.	1	2	Terminal No.	1	2
Color of Wire	-	-	Color of Wire	-	-	Color of Wire	-	-	Color of Wire	-	-
SHIELD	-	-	SHIELD	-	-	SHIELD	-	-	SHIELD	-	-
Signal Name [Specification]	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-	-

Connector No.	M381	Connector No.	M382	Connector No.	M383	Connector No.	M385
Connector Name	WINDOW ANTENNA (MAIN)	Connector Name	WIRE TO WIRE	Connector Name	SATELLITE RADIO ANTENNA	Connector Name	WIRE TO WIRE
Connector Type	P01FB-A	Connector Type	GT16C-1S-HU	Connector Type	GT16C-1PP-HU	Connector Type	GT13SC-1/1S-HU

Terminal No.	1	2	Terminal No.	1	2	Terminal No.	1	2	Terminal No.	1	2
Color of Wire	-	-	Color of Wire	-	-	Color of Wire	-	-	Color of Wire	-	-
SHIELD	-	-	SHIELD	-	-	SHIELD	-	-	SHIELD	-	-
Signal Name [Specification]	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-	-	Signal Name [Specification]	-	-

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BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M386
Connector Name	ANTENNA AMP.
Connector Type	GTJ3SC-1/1S-HU



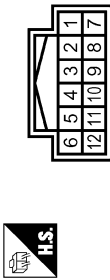
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP. ON SIGNAL
2	-	AM-FM MAIN

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TKJDFW-NSB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	- [With NAVI]
2	G	- [With NAVI]
3	SHIELD	- [With NAVI]

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	R	- [With NAVI]
5	G	- [With NAVI]

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-
5	R	-

Connector No.	R17
Connector Name	MICROPHONE
Connector Type	TKG4FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	MICROPHONE SIGNAL
2	SHIELD	SHIELD
4	R	MICROPHONE VCC

NOTE:

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

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WOOFER AMP.

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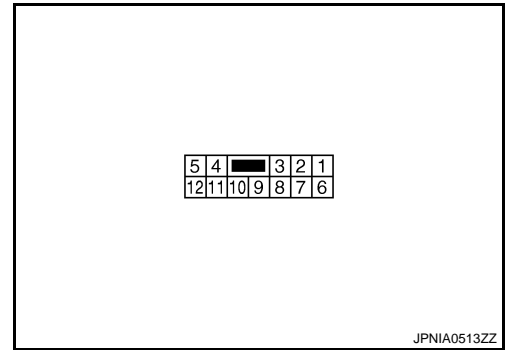
[BOSE AUDIO WITH NAVIGATION]

WOOFER AMP.

Reference Value

INFOID:000000001678441

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/Output			
1 (G)	2 (R)	Sound signal rear woofer RH	Output	Ignition switch ON	Voice output	 SKIB3609E
3 (GR)	Ground	Woofer amp. ON signal	Input	Ignition switch ON	Voice output	10 V
5 (W)	4 (B)	Sound signal rear woofer LH	Output	Ignition switch ON	Voice output	 SKIB3609E
7 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
8 (SB)	9 (V)	Sound signal rear woofer	Input	Ignition switch ON	Voice output	 SKIB3609E
10 (B)	Ground	GND	—	Ignition switch ON	—	0 V

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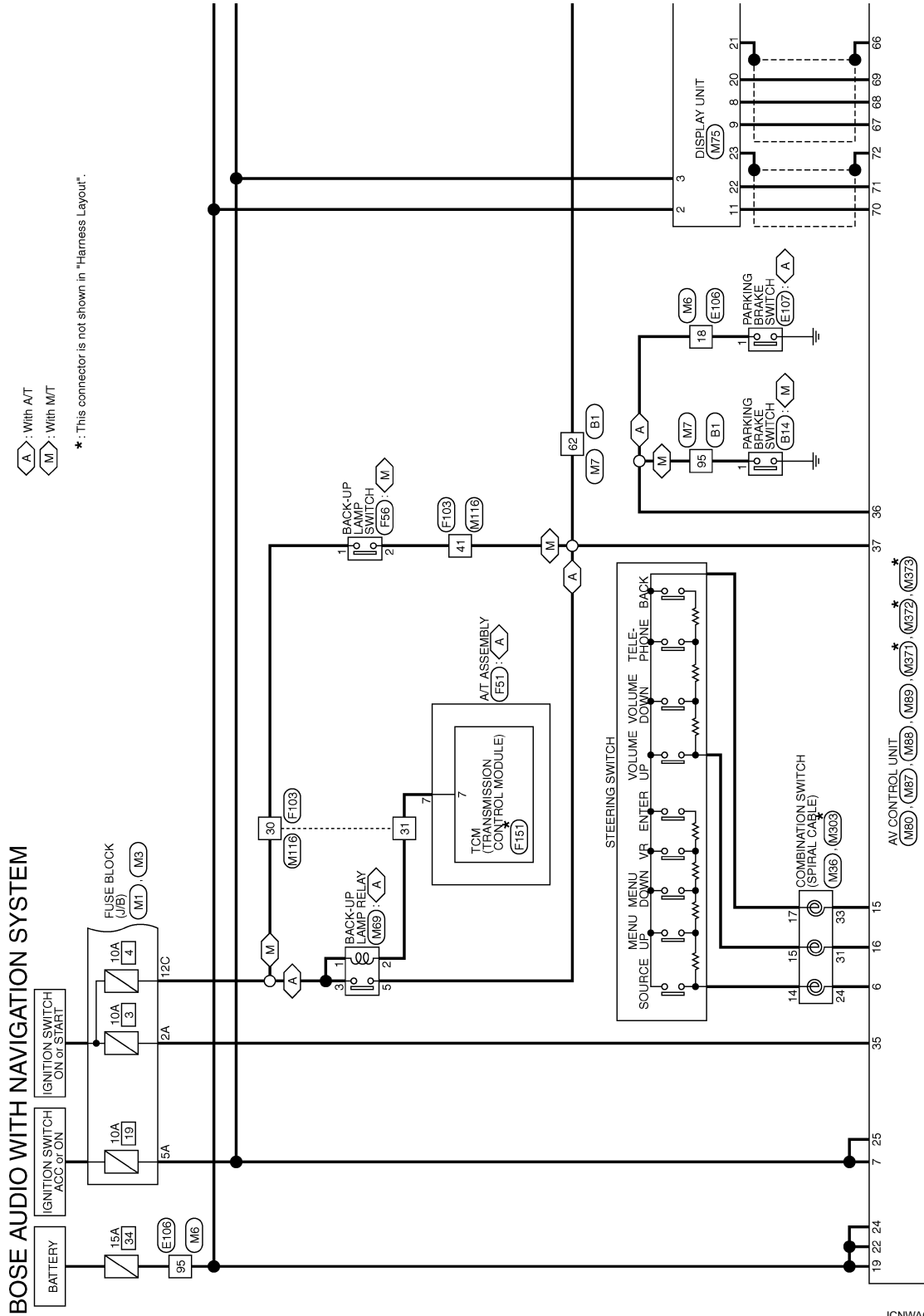
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[BOSE AUDIO WITH NAVIGATION]

Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM -

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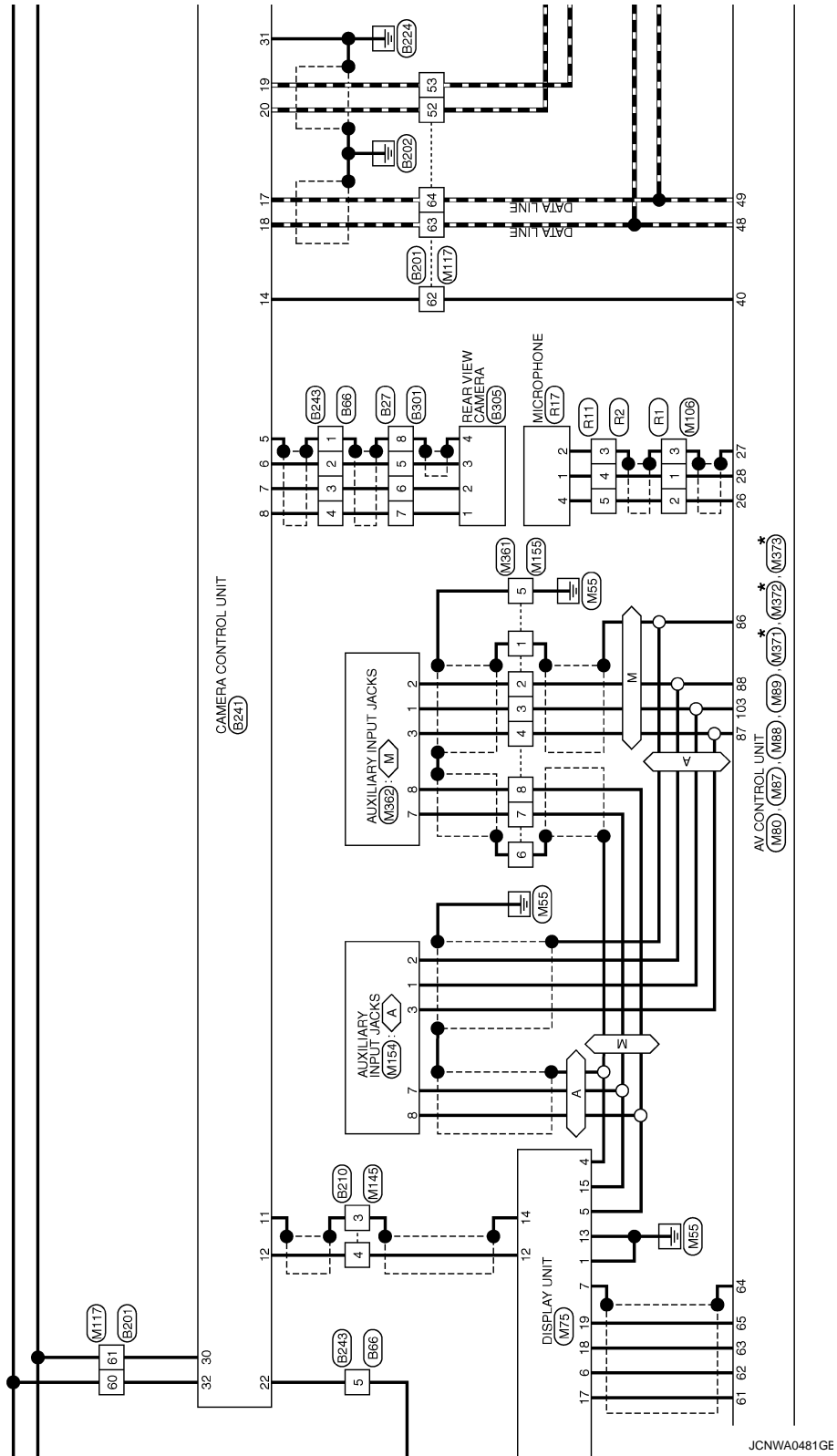
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[BOSE AUDIO WITH NAVIGATION]



*: This connector is not shown in "Harness Layout".



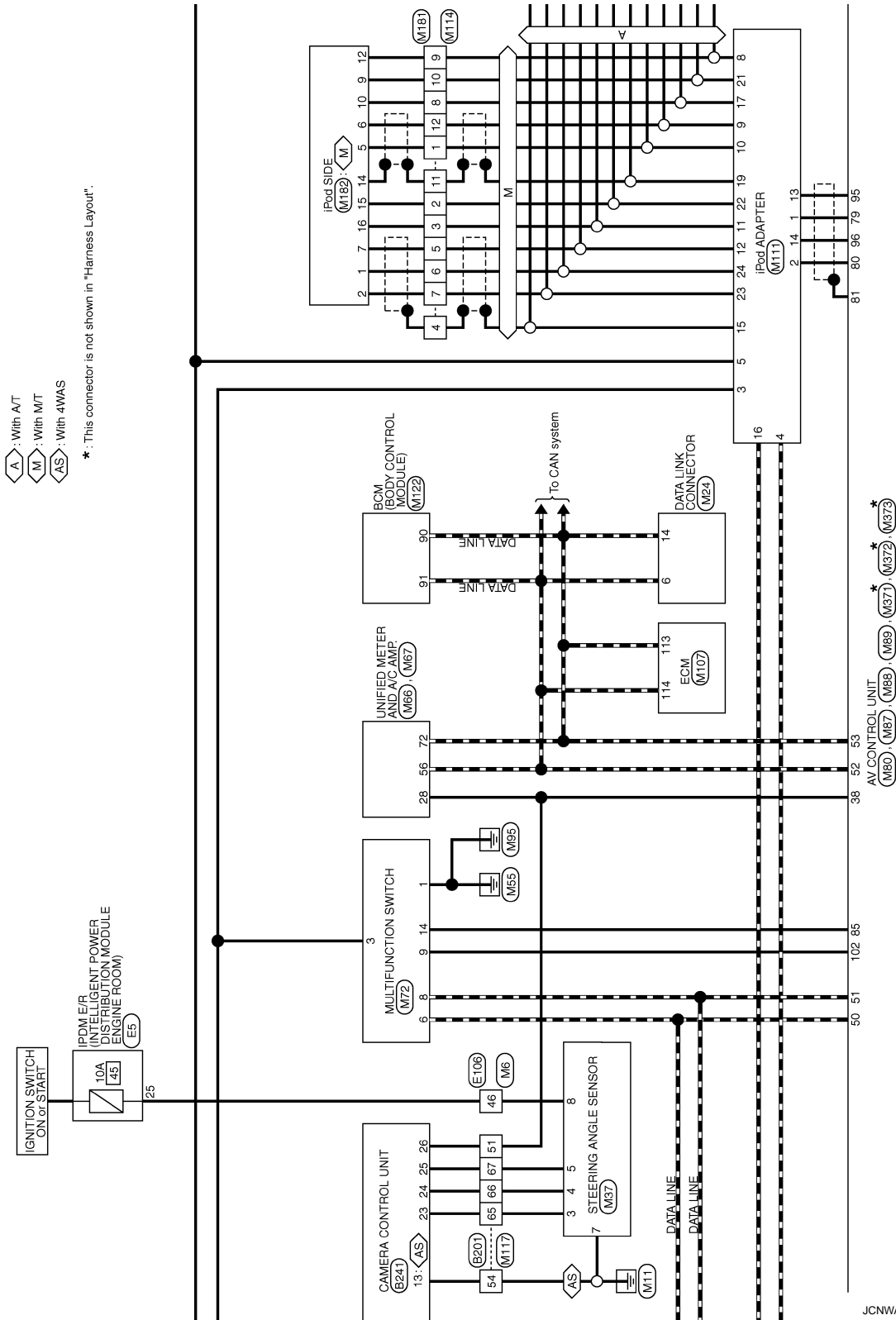
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[BOSE AUDIO WITH NAVIGATION]

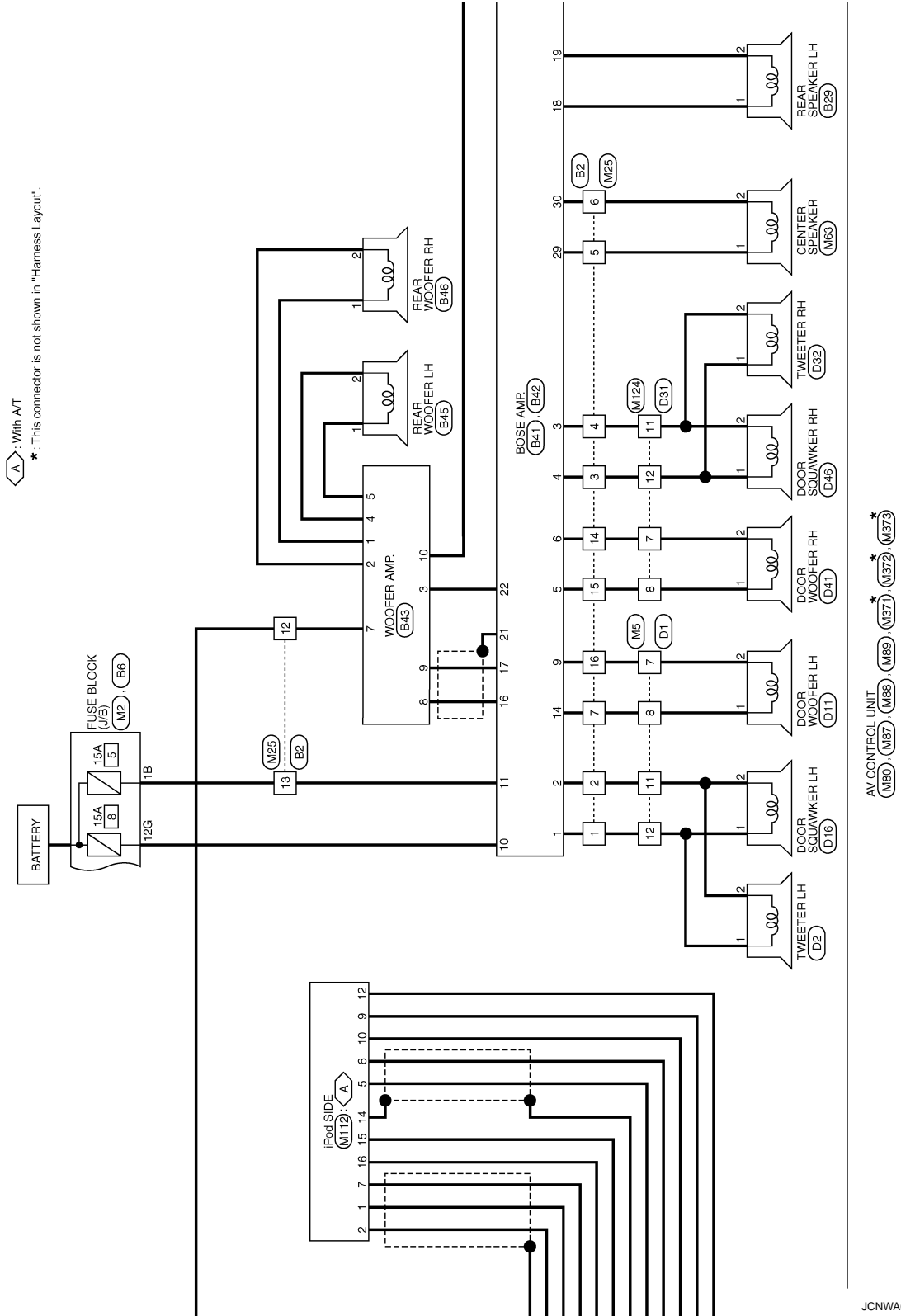


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WOOFER AMP.

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[BOSE AUDIO WITH NAVIGATION]



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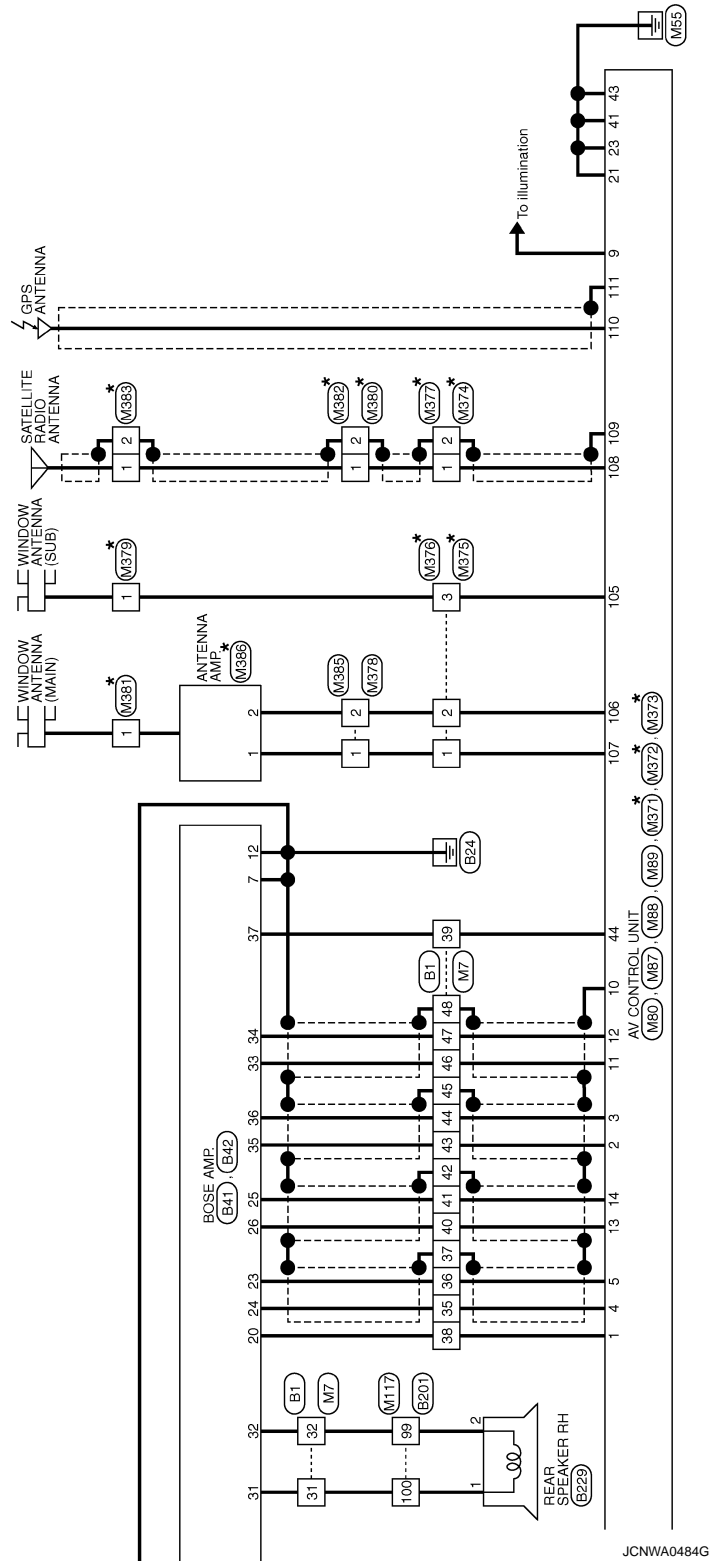
AV

WOOFER AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

*: This connector is not shown in "Harness Layout".



JCNWA0484GE

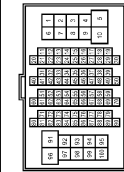
WOOFER AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

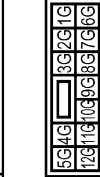
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH00TW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	LG	-
32	Y	-
35	V	-
36	SB	-
37	SHIELD	-
38	W	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	P	-

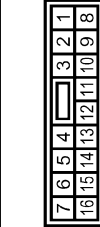
Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



Terminal No.	IZG	Y	-
Terminal No.	IZG	Y	-

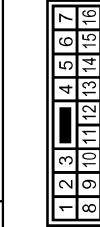
44	L	-
45	SHIELD	-
46	F	-
47	G	-
48	SHIELD	-
82	O	-
95	V	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	V	-
4	LG	-
5	L	-
6	O	-
7	B	-
12	Y	-
13	GR	-
14	R	-
15	G	-

Connector No.	B27
Connector Name	WIRE TO WIRE
Connector Type	NS38MW-CS



Terminal No.	5	B	-
Terminal No.	6	W	-
Terminal No.	7	R	-
Terminal No.	8	SHIELD	-

16	W	-
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Connector No.	B29
Connector Name	REAR SPEAKER LH
Connector Type	TK02MBR-P



Terminal No.	1	L	-
Terminal No.	2	P	-

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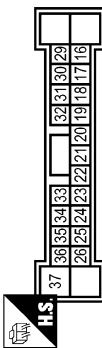
WOOFER AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

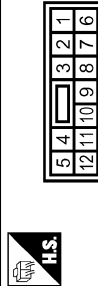
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FER-SG44



Terminal No.	Color of Wire	Signal Name [Specification]
16	SB	SOUND SIGNAL WOOFER (+)
17	V	SOUND SIGNAL WOOFER (-)
18	L	SOUND SIGNAL REAR LH (+)
19	P	SOUND SIGNAL REAR LH (-)
20	W	AMP_ON SIGNAL
21	SHIELD	SHIELD
22	GR	WOOFER AMP_ON SIGNAL
23	SB	SOUND SIGNAL REAR LH (+)
24	V	SOUND SIGNAL REAR LH (-)
25	Y	SOUND SIGNAL REAR RH (+)
26	BR	SOUND SIGNAL REAR RH (-)

Connector No.	B43
Connector Name	WOOFER AMP.
Connector Type	NS12PW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR WOOFER RH (+)
2	R	REAR WOOFER RH (-)
3	GR	WOOFER AMP_ON SIGNAL
4	B	REAR WOOFER LH (+)
5	W	REAR WOOFER LH (-)
7	Y	BATTERY
8	SB	SOUND SIGNAL WOOFER (+)
9	V	SOUND SIGNAL WOOFER (-)
10	B	GND

29	L	SOUND SIGNAL CENTER (+)
30	O	SOUND SIGNAL CENTER (-)
31	LG	SOUND SIGNAL REAR RH (+)
32	V	SOUND SIGNAL REAR RH (-)
33	R	SOUND SIGNAL FRONT RH (+)
34	G	SOUND SIGNAL FRONT RH (-)
35	P	SOUND SIGNAL FRONT LH (+)
36	L	SOUND SIGNAL FRONT LH (-)
37	SB	MODE CHANGE SIGNAL

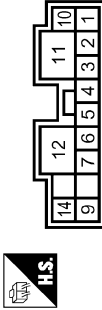
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	DOOR SQUAWKER LH (+)
2	W	DOOR SQUAWKER LH (-)
3	LG	DOOR SQUAWKER RH (-)
4	V	DOOR SQUAWKER RH (+)
5	G	DOOR WOOFER RH (+)
6	R	DOOR WOOFER RH (-)
7	B	GND
9	W	DOOR WOOFER LH (-)
10	Y	BATTERY
11	GR	BATTERY
12	B	GND

Connector No.	B46
Connector Name	REAR WOOFER RH
Connector Type	NS32PW-CS

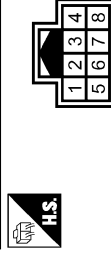


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA12FER-SJA2



Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TR038MP-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	W	-
4	R	-
5	O	-

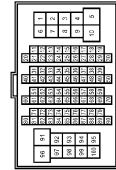
WOOFER AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

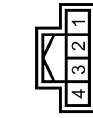
Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH02PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
51	V	-
52	L	- [With rear view camera]
53	P	- [With rear view camera]
54	B	-
60	BR	-
61	LG	-
62	GR	-
63	L	-
64	P	-
65	Y	-
66	SB	-

67	O	-
99	P	-
100	L	-

Connector No.	B210
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH



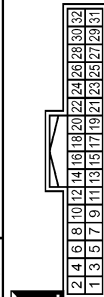
Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-

Connector No.	B229
Connector Name	REAR SPEAKER RH
Connector Type	TH02MR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	-

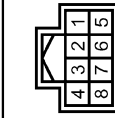
Connector No.	B241
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH02PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	B	CAMERA IMAGE SIGNAL
7	W	GND
8	R	CAMERA ON SIGNAL
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
13	B	CONTROL SIGNAL
14	GR	CONNECTION RECOGNITION
17	P	AV COMM (L)
18	L	AV COMM (R)
19	R	AV COMM (L)

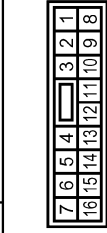
20	G	AV COMM (R)
22	GR	REVERSE
23	Y	SENSOR SIGNAL 1
24	SB	SENSOR SIGNAL 2
25	O	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	BR	BATTERY

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	W	-
4	R	-
5	GR	-

Connector No.	B301
Connector Name	WIRE TO WIRE
Connector Type	HS08PW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-
6	W	-
7	R	-
8	SHIELD	-

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WOOFER AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

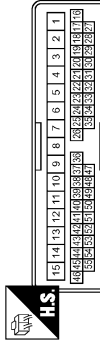
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B305
Connector Name	REAR VIEW CAMERA
Connector Type	TH04MW-RH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	CAMERA ON SIGNAL
2	W	GND
3	Y	CAMERA IMAGE SIGNAL
4	SHIELD	SHIELD

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D2
Connector Name	TWEETER LH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D11
Connector Name	DOOR WOOFER LH
Connector Type	NS02FW-CS



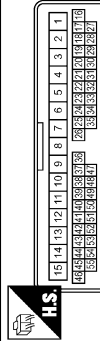
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	D16
Connector Name	DOOR SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D02
Connector Name	TWEETER RH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D41
Connector Name	DOOR WOOFER RH
Connector Type	NS02FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

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WOOFER AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

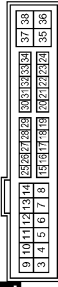
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	D48
Connector Name	DOOR SQUAWKER RH
Connector Type	TK02BR



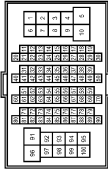
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	E5
Connector Name	IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-TV



Terminal No.	Color of Wire	Signal Name [Specification]
25	G	-

Connector No.	F105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM



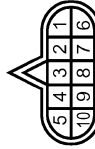
Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
46	W	-
95	Y	-

Connector No.	F107
Connector Name	PARKING BRAKE SWITCH (A/T)
Connector Type	TB01FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



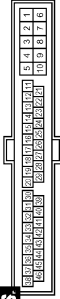
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-

Connector No.	F56
Connector Name	BACK-UP LAMP SWITCH
Connector Type	RK02FB



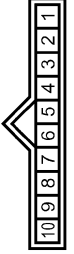
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK68FW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
30	R	-
31	R	-
41	O	-

Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FBGY



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

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WOOFER AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS36FW-M2



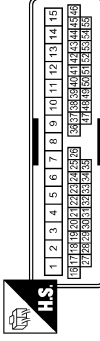
Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



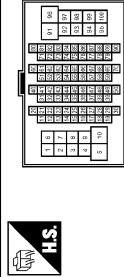
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	L	-

Terminal No.	Color of Wire	Signal Name [Specification]
1B	SB	-

Terminal No.	Color of Wire	Signal Name [Specification]
12C	R	-

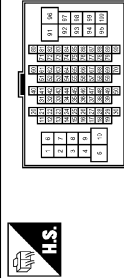
Terminal No.	Color of Wire	Signal Name [Specification]
7	W	-
8	B	-
11	W	-
12	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH30MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
46	G	-
95	Y	-

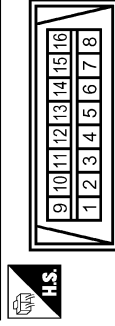
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH30MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	P	-
35	O	-
36	W	-
37	SHIELD	-
38	SB	-
39	SR	-
40	BR	-
41	Y	-
42	SHIELD	-
43	O	-

44	W	-
45	SHIELD	-
46	R	-
47	G	-
48	SHIELD	-
62	O	-
95	O	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD10FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

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WOOFER AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

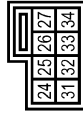
Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	1516MWC-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	GR	-
5	L	-
6	LG	-
7	B	-
12	Y	-
13	SB	-
14	R	-
15	G	-

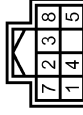
Terminal No.	16	W	-
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Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-TV



Terminal No.	Color of Wire	Signal Name [Specification]
24	G	-
31	L	-
33	B	-

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	O	SENSOR3
7	B	GND
8	G	IGN

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



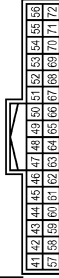
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	LG	-

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH



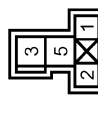
Terminal No.	Color of Wire	Signal Name [Specification]
28	R	VEHICLE SPEED (8-PULSE)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M89
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS2PFL-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

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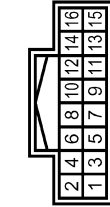
WOOFER AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

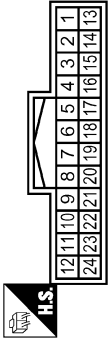
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



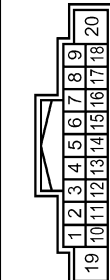
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	L	ACC
3	SB	AV COMM (H)
4	W	AV COMM (L)
5	BR	SW GND
6	SB	EJECT SIGNAL [With NAVI]
14	SB	

Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	LG	ACC
4	SHIELD	SHIELD
5	R	AUX IMAGE GND
6	B	RGB (GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (YS) SIGNAL [With rear view camera]
11	BR	COMM (CONT-2)DISP
12	W	CAMERA IMAGE SIGNAL

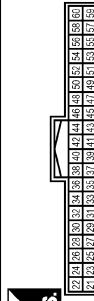
Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	AMP_ON SIGNAL
2	O	SOUND SIGNAL FRONT LH (L)
3	W	SOUND SIGNAL FRONT LH (C)
4	O	SOUND SIGNAL REAR LH (C)
5	W	SOUND SIGNAL REAR LH (C)
6	G	STRG SW A
7	Y	ACC
9	L	ILLUMINATION
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (C)
12	G	SOUND SIGNAL FRONT RH (C)

13	B	GND
14	SHIELD	SHIELD
15	G	AUX IMAGE SIGNAL
17	W	RGB (RED) SIGNAL
18	R	RGB (BLUE) SIGNAL
19	C	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	Y	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
35	G	IGNITION
36	SB	PARKING BRAKE
37	O	REVERSE

38	GR	VEHICLE SPEED (8-PULSE)
40	W	CONNECTION RECOGNITION
41	B	CONTROL SIGNAL 1
43	B	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
48	L	AV COMM (H)
49	P	AV COMM (L)
50	V	AV COMM (H)
51	LG	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

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WOOFER AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

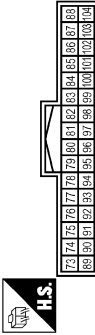
Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
61	W	RGB (RFRED) SIGNAL
62	B	RGB (GGREEN) SIGNAL
63	R	RGB (BBLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (YS) SIGNAL (With rear view camera)
68	R	HP
69	W	VP
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

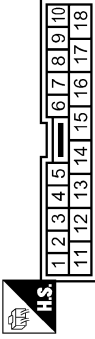
72	SHIELD
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Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FPW-NH



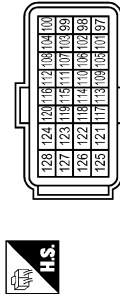
Terminal No.	Color of Wire	Signal Name [Specification]
79	R	iPod SOUND SIGNAL LH (+)
80	B	iPod SOUND SIGNAL RH (+)
81	SHIELD	SHIELD
85	LG	EJECT SIGNAL (With rear view camera)
86	SHIELD	SHIELD
87	W	AUX SOUND SIGNAL LH (+)
88	B	AUX SOUND SIGNAL GND
95	W	iPod SOUND SIGNAL LH (-)
96	G	iPod SOUND SIGNAL RH (-)
102	BR	SW GND
103	R	AUX SOUND SIGNAL RH (+)

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MPF-NS



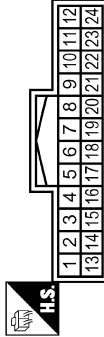
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-- [With NAVI]
2	G	-- [With NAVI]
3	SHIELD	-- [With NAVI]

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGV-R28-R-LH-Z



Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-L1
114	L	VEHCAN-H1

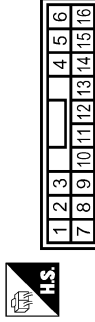
Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FPW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER (With A/T)
9	L	CHARGE POWER (With M/T)
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod ADAPTER)
11	O	ACCESSORY IDENTIFY
12	W	iPod SOUND SIGNAL RH (+)

Terminal No.	Color of Wire	Signal Name [Specification]
13	W	iPod SOUND SIGNAL LH (-)
14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	R	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP16FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

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[BOSE AUDIO WITH NAVIGATION]

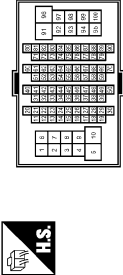
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M114	P	-
Connector Name	WIRE TO WIRE		
Connector Type	TH42FW-NH		



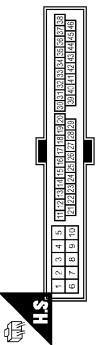
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

Connector No.	M117	O	-
Connector Name	WIRE TO WIRE	P	-
Connector Type	TH42FW-NH	L	-



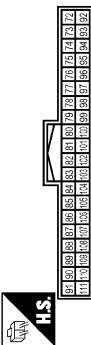
Terminal No.	Color of Wire	Signal Name [Specification]
51	P	-
52	V	-
53	LG	-
54	B	-
60	Y	-
61	SB	-
62	W	-
63	W	-
64	L	-
65	L	-
66	L	-
67	BR	-

Connector No.	M116	P	-
Connector Name	WIRE TO WIRE		
Connector Type	TH43MW-NS/D		



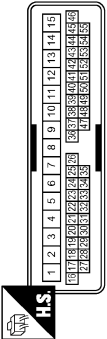
Terminal No.	Color of Wire	Signal Name [Specification]
30	LG	-
31	W	-
41	O	-

Connector No.	M122	P	-
Connector Name	BCM (BODY CONTROL MODULE)		
Connector Type	TH40FB-NH		



Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

Connector No.	M124	P	-
Connector Name	WIRE TO WIRE		
Connector Type	TH40MW-CS15		



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	GR	-
12	BR	-

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WOOFER AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M145
Connector Name	WIRE TO WIRE
Connector Type	TH2MWW-NH



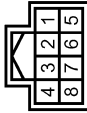
Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	A08EW



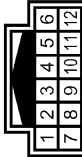
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+)
2	B	SOUND SIGNAL GND [With NAV]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M155
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	- [With NAV]
3	R	-
4	W	-
5	B	-
6	SHIELD	-
7	G	-
8	R	-

Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

12	P	-
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Connector No.	M182
Connector Name	I-POD SIDE
Connector Type	IP16FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	I-Pod SOUND SIGNAL LH (+)
2	R	I-Pod SOUND SIGNAL GND
5	L	COMM (I-Pod->I-Pod ADAPTER)
6	P	COMM (I-Pod ADAPTER->I-Pod)
7	W	I-Pod SOUND SIGNAL RH (+)
9	W	I-Pod CONNECTION RECOGNITION
10	BR	GND
12	UL	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTIFY

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
14	W	-
15	L	-
17	BR	-

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WOOFER AMP.

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[BOSE AUDIO WITH NAVIGATION]

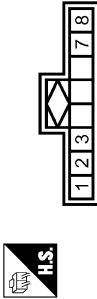
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M381
Connector Name	WIRE TO WIRE
Connector Type	TH8BWW-RH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	R	-
4	W	-
5	SHIELD	-
6	SHIELD	-
7	G	-
8	R	-

Connector No.	M382
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB8EW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+) [With NAVI]
2	B	SOUND SIGNAL GND [With NAVI]
3	W	SOUND SIGNAL LH (+)
8	R	AUX IMAGE SIGNAL AUX IMAGE GND

Connector No.	M371
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SH-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
105	-	FM SUB
106	-	AM-FM MAIN
107	-	AM/FM AMP. ON SIGNAL

Connector No.	M372
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAK8A-JACK



Terminal No.	Color of Wire	Signal Name [Specification]
108	-	SAETLLITE-ANTENNA
109	SHIELD	SHIELD

Connector No.	M373
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT5-1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
110	-	GPS ANTENNA
111	SHIELD	SHIELD

Connector No.	M374
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	SHIELD	-

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SC-2/1S-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

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< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M377	Connector No.	M378	Connector No.	M379	Connector No.	M380
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WINDOW ANTENNA (SUB)	Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU	Connector Type	GT13SCH-1/1PP-HU	Connector Type	P01FB-A	Connector Type	GT16C-1PP-HU

Terminal No.	1	Terminal No.	1	Terminal No.	1	Terminal No.	1
Color of Wire	-	Color of Wire	-	Color of Wire	-	Color of Wire	-
2	SHIELD	2	-	2	-	2	SHIELD
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-

Connector No.	M381	Connector No.	M382	Connector No.	M383	Connector No.	M385
Connector Name	WINDOW ANTENNA (MAIN)	Connector Name	WIRE TO WIRE	Connector Name	SATELLITE RADIO ANTENNA	Connector Name	WIRE TO WIRE
Connector Type	P01FB-A	Connector Type	GT16C-1S-HU	Connector Type	GT16C-1PP-HU	Connector Type	GT13SC-1/S-HU

Terminal No.	1	Terminal No.	1	Terminal No.	1	Terminal No.	1
Color of Wire	-	Color of Wire	-	Color of Wire	-	Color of Wire	-
2	-	2	SHIELD	2	SHIELD	2	-
Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-	Signal Name [Specification]	-

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WOOFER AMP.

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

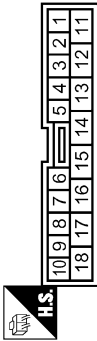
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M386
Connector Name	ANTENNA AMP.
Connector Type	GTJ3SC-1/1S-HU



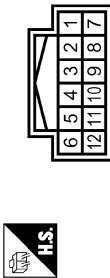
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP. ON SIGNAL
2	-	AM-FM MAIN

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TKJDFW-NSB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	- [With NAVI]
2	G	- [With NAVI]
3	SHIELD	- [With NAVI]

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	R	- [With NAVI]
5	G	- [With NAVI]

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-
5	R	-

Connector No.	R17
Connector Name	MICROPHONE
Connector Type	TKG4FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	MICROPHONE SIGNAL
2	SHIELD	SHIELD
4	R	MICROPHONE VCC

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NOTE:

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

IPOD ADAPTER

< ECU DIAGNOSIS >

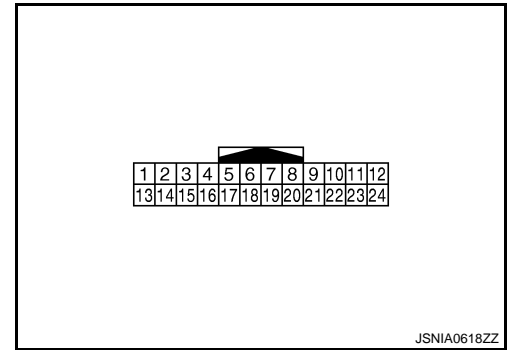
[BOSE AUDIO WITH NAVIGATION]

IPOD ADAPTER

Reference Value

INFOID:000000001558916

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
1 (R)	13 (W)	iPod sound signal LH	Output	Ignition switch ON	When iPod mode is select- ed	<p style="text-align: right;">SKIB3609E</p>
2 (B)	14 (G)	iPod sound signal RH	Output	Ignition switch ON	When iPod mode is select- ed	<p style="text-align: right;">SKIB3609E</p>
3 (V)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
4 (R)	—	AV communication signal (L)	Input/ Output	—	—	—
5 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
8 (W) ^{*1} (L) ^{*2}	Ground	iPod battery charge	Output	Ignition switch ON	Connected to iPod®	12 V

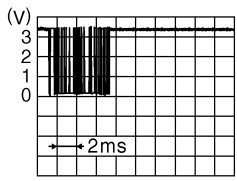
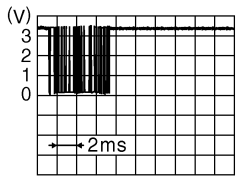
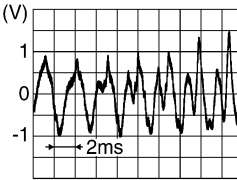
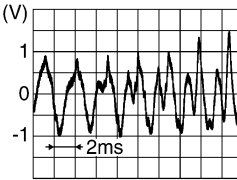
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IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
9 (P)	Ground	Communication signal (iPod adapter→iPod®)	Output	Ignition switch ON	The wave pattern is displayed just after iPod connection.	 <p style="text-align: right;">JPNIA0462GB</p> <p>NOTE: After the wave pattern display, the value continues Approx 3.3 V</p>
10 (L)	Ground	Communication signal (iPod®→iPod adapter)	Input	Ignition switch ON	Connected to iPod®	 <p style="text-align: right;">JPNIA0462GB</p>
11 (O)	Ground	ACCESSORY-IDENTIFY	—	Ignition switch ON	Connected to iPod®	0 V
12 (W)	23 (R)	iPod sound signal RH	Input	Ignition switch ON	When iPod mode is selected	 <p style="text-align: right;">SKIB3609E</p>
16 (G)	—	AV communication signal (H)	Input/ Output	—	—	—
17 (BR)	Ground	GND	—	Ignition switch ON	—	0 V
19	—	Shield	—	—	—	—
21 (W)	Ground	iPod connection recognition signal	Input	Ignition switch ON	Not connected to iPod®	4 V
					Connected to iPod®	0 V
22 (G)	Ground	ACCESSORY-DETECT	—	Ignition switch ON	Connected to iPod®	0 V
24 (B)	23 (R)	iPod sound signal LH	Input	Ignition switch ON	When iPod mode is selected	 <p style="text-align: right;">SKIB3609E</p>

*1: With A/T models.

*2: With M/T models.

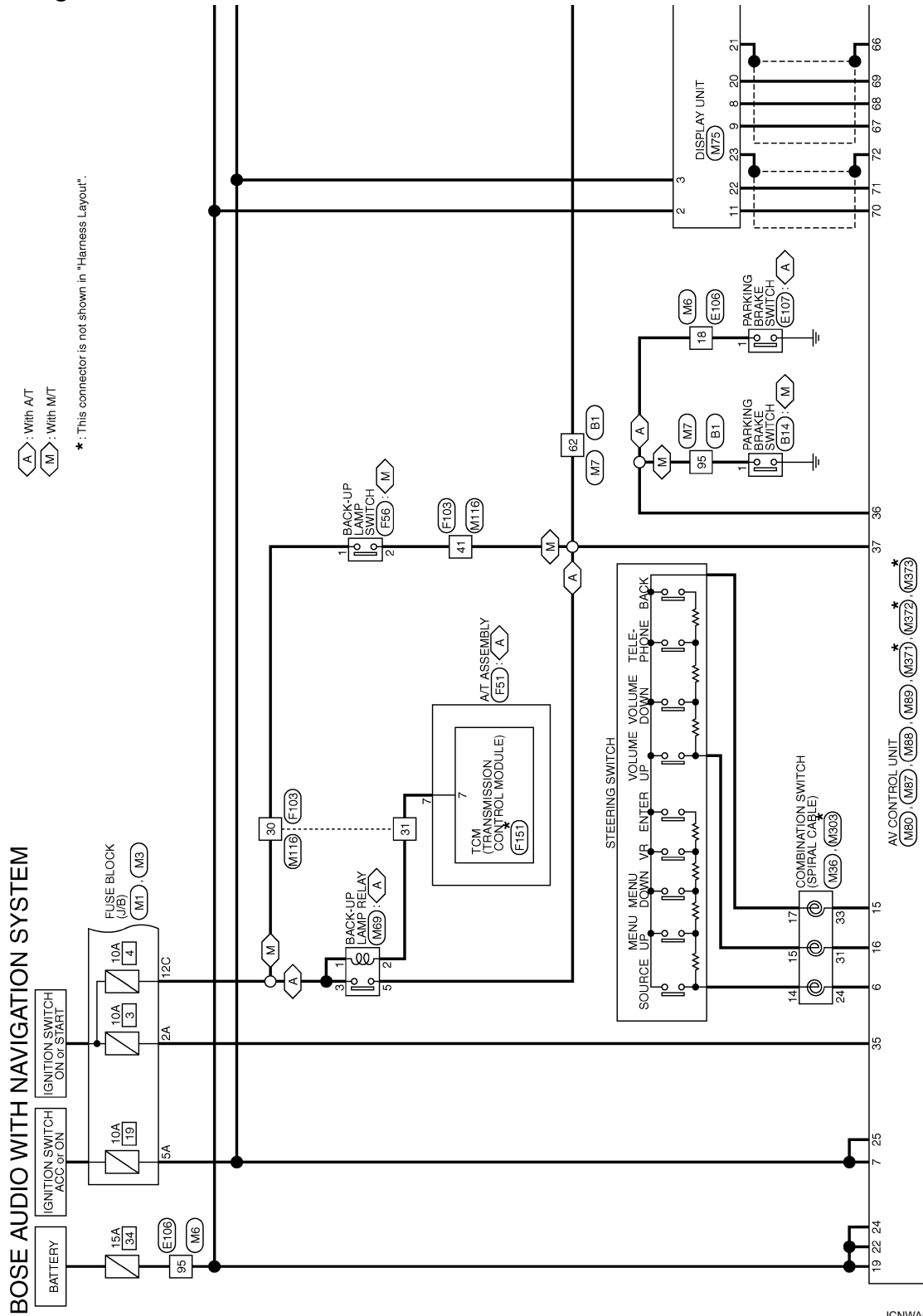
IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM -

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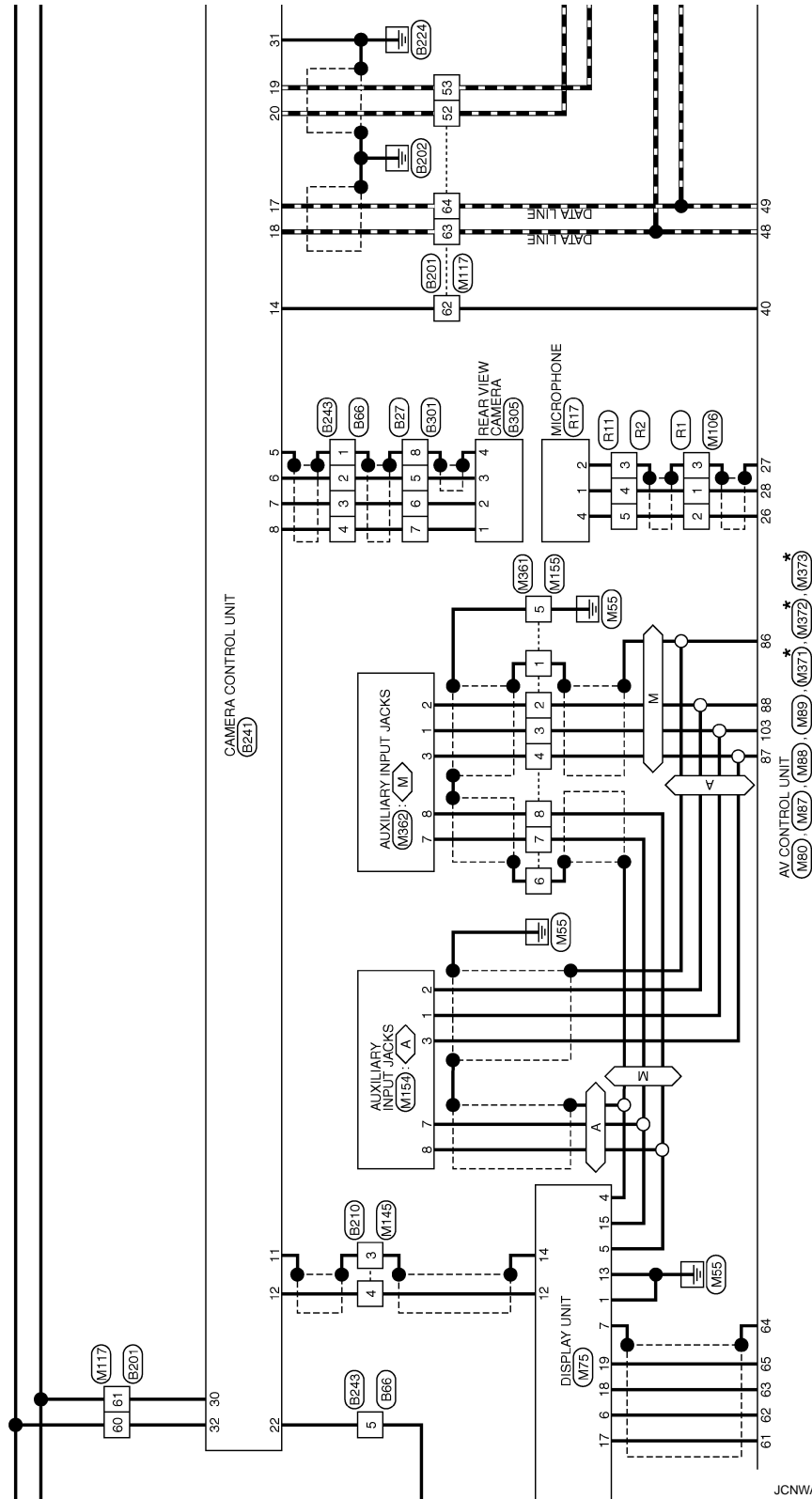
IPOD ADAPTER

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

◁ A : With AT
 ▷ M : With MT

*: This connector is not shown in "Harness Layout".

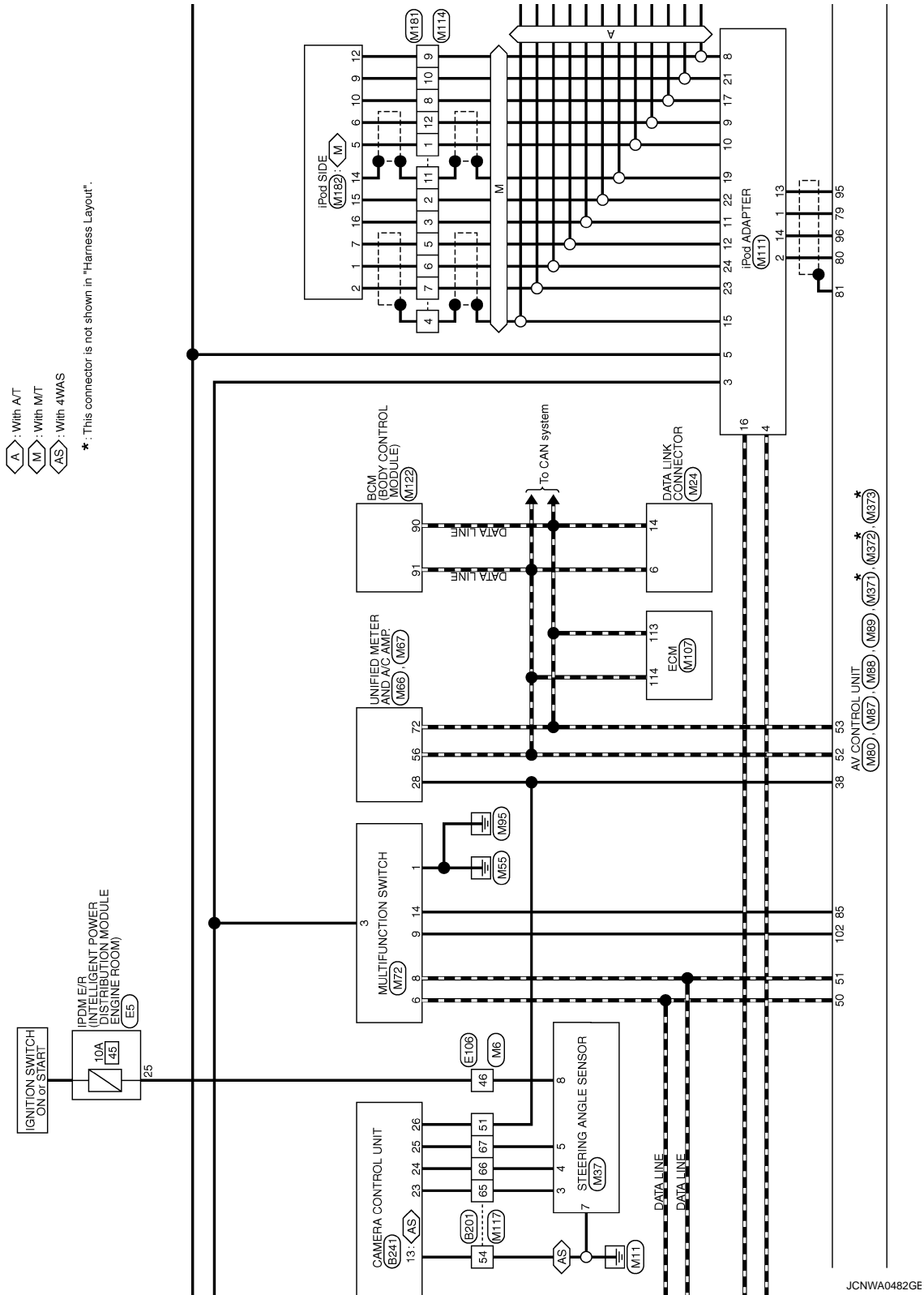


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IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]



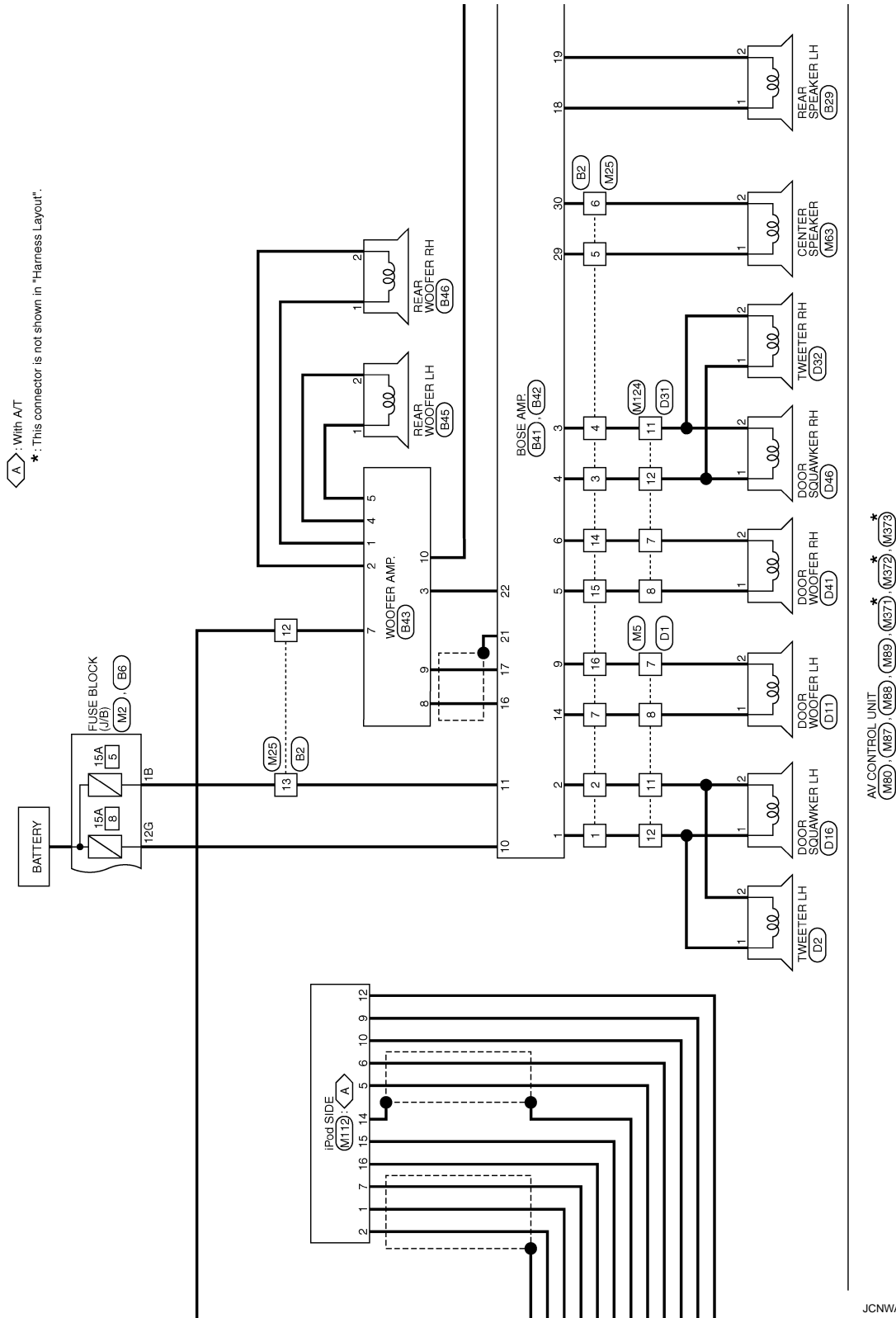
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< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]



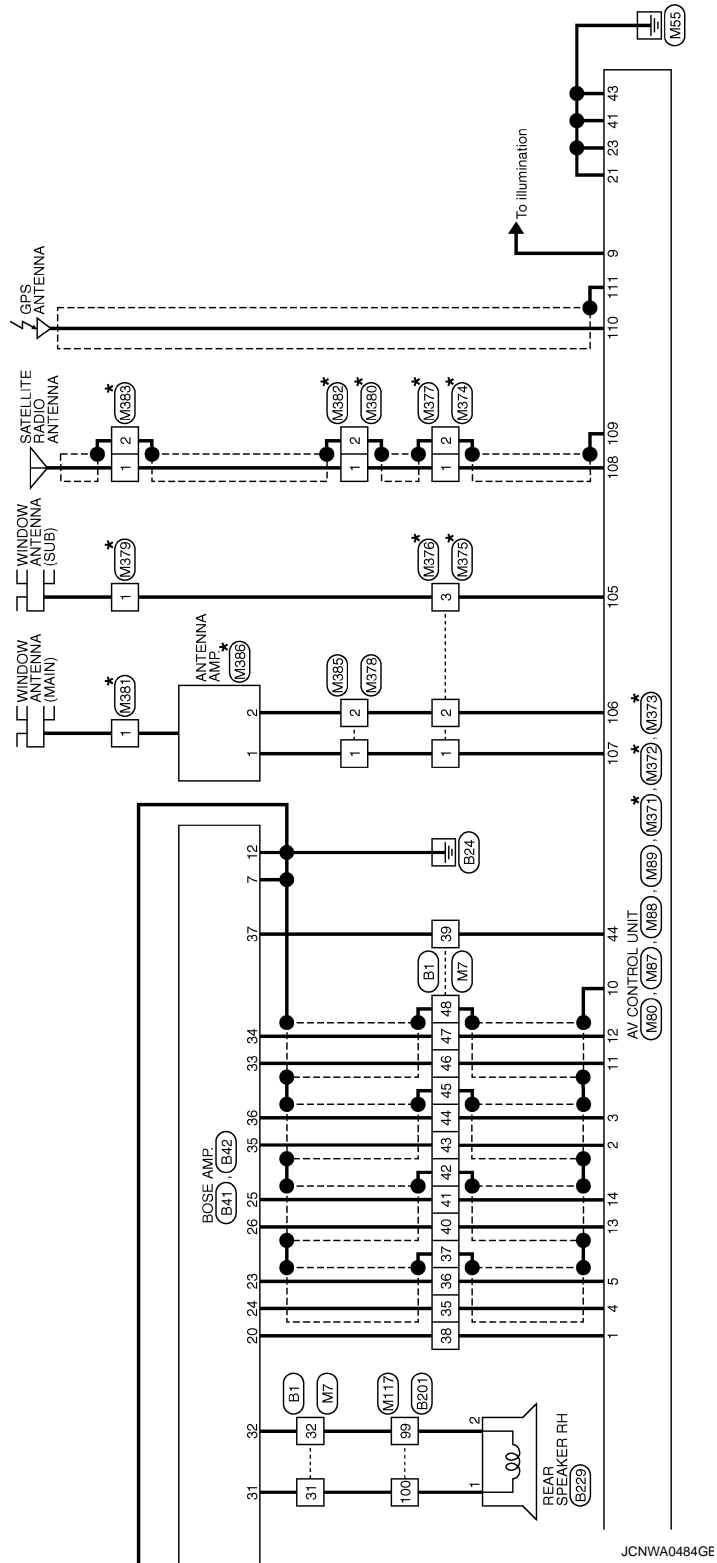
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IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

*: This connector is not shown in "Harness Layout".



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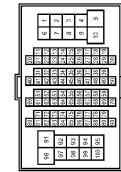
IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	LG	-
32	Y	-
35	V	-
36	SB	-
37	SHIELD	-
38	W	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	P	-

44	L	-
45	SHIELD	-
46	P	-
47	G	-
48	SHIELD	-
49	O	-
50	V	-

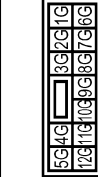


Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	V	-
4	LG	-
5	L	-
6	O	-
7	B	-
12	Y	-
13	GR	-
14	R	-
15	G	-

16	W	-
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Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS



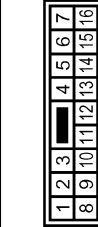
Terminal No.	12G	Y	-
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Connector No.	B14
Connector Name	PARKING BRAKE SWITCH (M/T)
Connector Type	P01FB-A



Terminal No.	1	V	-
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Connector No.	B27
Connector Name	WIRE TO WIRE
Connector Type	NS38MM-CS



Terminal No.	5	B	-
6	W	-	-
7	R	-	-
8	SHIELD	-	-

Connector No.	B29
Connector Name	REAR SPEAKER LH
Connector Type	TK02MBR-P



Terminal No.	1	L	-
2	P	-	-

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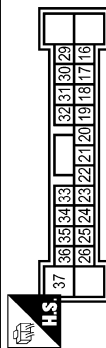
IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

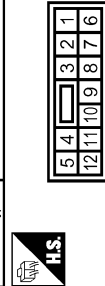
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA19FER-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
16	SB	SOUND SIGNAL WOOFER (+)
17	V	SOUND SIGNAL WOOFER (-)
18	L	SOUND SIGNAL REAR LH (+)
19	P	SOUND SIGNAL REAR LH (-)
20	W	AMP. ON SIGNAL
21	SHIELD	SHIELD
22	GR	WOOFER AMP. ON SIGNAL
23	SB	SOUND SIGNAL REAR LH (+)
24	V	SOUND SIGNAL REAR LH (-)
25	Y	SOUND SIGNAL REAR RH (+)
26	BR	SOUND SIGNAL REAR RH (-)

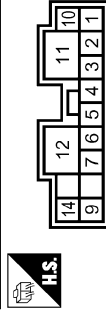
Connector No.	B43
Connector Name	WOOFER AMP.
Connector Type	NS22FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR WOOFER RH (+)
2	R	REAR WOOFER RH (-)
3	GR	WOOFER AMP. ON SIGNAL
4	B	REAR WOOFER LH (+)
5	W	REAR WOOFER LH (-)
7	Y	BATTERY
8	SB	SOUND SIGNAL WOOFER (+)
9	V	SOUND SIGNAL WOOFER (-)
10	B	GND

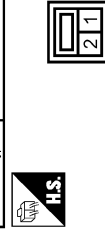
29	L	SOUND SIGNAL CENTER (+)
30	O	SOUND SIGNAL CENTER (-)
31	LG	SOUND SIGNAL REAR RH (+)
32	V	SOUND SIGNAL REAR RH (-)
33	R	SOUND SIGNAL FRONT RH (+)
34	G	SOUND SIGNAL FRONT RH (-)
35	P	SOUND SIGNAL FRONT LH (+)
36	L	SOUND SIGNAL FRONT LH (-)
37	SB	MODE CHANGE SIGNAL

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SCA12FER-SJA2



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	DOOR SQUAWKER LH (+)
2	W	DOOR SQUAWKER LH (-)
3	LG	DOOR SQUAWKER RH (+)
4	V	DOOR SQUAWKER RH (-)
5	G	DOOR WOOFER RH (+)
6	R	DOOR WOOFER RH (-)
7	B	GND
9	W	DOOR WOOFER LH (+)
10	Y	BATTERY
11	GR	BATTERY
12	B	GND

Connector No.	B46
Connector Name	REAR WOOFER RH
Connector Type	NS22FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

14	B	DOOR WOOFER LH (+)
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Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TH08MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	W	-
4	R	-
5	O	-

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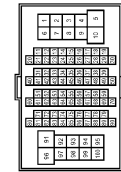
IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

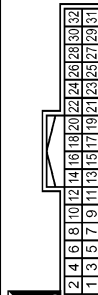
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH02PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
51	V	-
52	L	- [With rear view camera]
53	P	- [With rear view camera]
54	B	-
60	BR	-
61	LG	-
62	GR	-
63	L	-
64	P	-
65	Y	-
66	SB	-

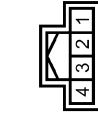
Connector No.	B241
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH02PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	B	CAMERA IMAGE SIGNAL
7	W	GND
8	R	CAMERA ON SIGNAL
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
13	B	CONTROL SIGNAL
14	GR	CONNECTION RECOGNITION
17	P	AV COMM (L)
18	L	AV COMM (R)
19	R	AV COMM (L)

67	O	-
99	P	-
100	L	-

Connector No.	B210
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH



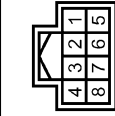
Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-

Connector No.	B229
Connector Name	REAR SPEAKER RH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	-

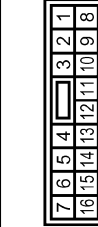
Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TH08PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	W	-
4	R	-
5	GR	-

20	G	AV COMM (H)
22	GR	REVERSE
23	Y	SENSOR SIGNAL 1
24	SB	SENSOR SIGNAL 2
25	O	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	BR	BATTERY

Connector No.	B301
Connector Name	WIRE TO WIRE
Connector Type	NS08PW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-
6	W	-
7	R	-
8	SHIELD	-

IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

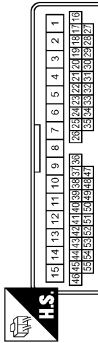
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B305
Connector Name	REAR VIEW CAMERA
Connector Type	TH04MW-RH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	CAMERA ON SIGNAL
2	W	GND
3	Y	CAMERA IMAGE SIGNAL
4	SHIELD	SHIELD

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D2
Connector Name	TWEETER LH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D11
Connector Name	DOOR WOOFER LH
Connector Type	NS02FW-CS



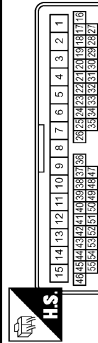
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	D16
Connector Name	DOOR SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D22
Connector Name	TWEETER RH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D41
Connector Name	DOOR WOOFER RH
Connector Type	NS02FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

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IPOD ADAPTER

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	D46
Connector Name	DOOR SQUAWKER RH
Connector Type	TK02EBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	E5
Connector Name	IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-TV



Terminal No.	Color of Wire	Signal Name [Specification]
25	G	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



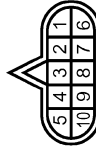
Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
46	W	-
95	Y	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH (A/T)
Connector Type	TB01FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK0FG-DGY



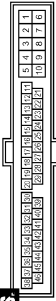
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-

Connector No.	F56
Connector Name	BACK-UP LAMP SWITCH
Connector Type	RK02FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK38FW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
30	R	-
31	R	-
41	O	-

Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FEGY



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

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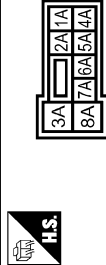
IPOD ADAPTER

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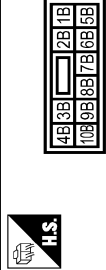
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



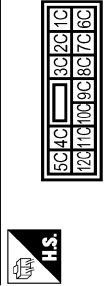
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



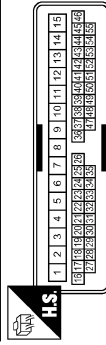
Terminal No.	Color of Wire	Signal Name [Specification]
1B	SB	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



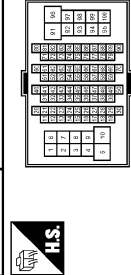
Terminal No.	Color of Wire	Signal Name [Specification]
12C	R	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



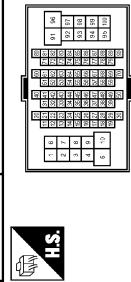
Terminal No.	Color of Wire	Signal Name [Specification]
7	W	-
8	B	-
11	W	-
12	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
46	G	-
95	Y	-

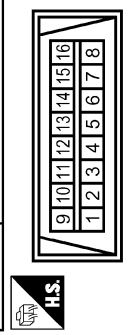
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	P	-
35	O	-
36	W	-
37	SHIELD	-
38	SE	-
39	SE	-
40	BR	-
41	Y	-
42	SHIELD	-
43	O	-

44	W	-
45	SHIELD	-
46	R	-
47	G	-
48	SHIELD	-
62	O	-
95	O	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

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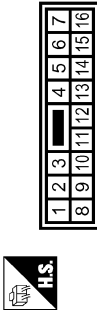
IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	GR	-
5	L	-
6	LG	-
7	B	-
12	Y	-
13	SB	-
14	R	-
15	G	-

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	LG	-

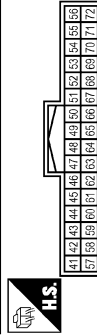
Terminal No.	16	W	-
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Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-TV



Terminal No.	Color of Wire	Signal Name [Specification]
24	G	-
31	L	-
33	B	-

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH03FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	O	SENSOR3
7	B	GND
8	G	IGN

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

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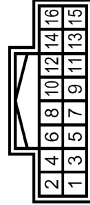
IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

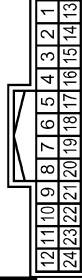
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	L	ACC
6	SB	AV COMM (H)
8	W	AV COMM (L)
9	BR	SW GND
14	SB	EJECT SIGNAL [With NAVI]

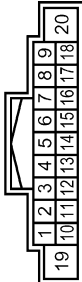
Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	LG	ACC
4	SHIELD	SHIELD
5	R	AUX IMAGE GND
6	B	RGB (GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (VS) SIGNAL [With rear view camera]
11	BR	COMM (CONT->DISP)
12	W	CAMERA IMAGE SIGNAL

13	B	GND
14	SHIELD	SHIELD
15	G	AUX IMAGE SIGNAL
17	W	RCE2 (R/RED)
18	R	RGB (BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	AMP_ON SIGNAL
2	O	SOUND SIGNAL FRONT LH (+)
3	W	SOUND SIGNAL FRONT LH (-)
4	O	SOUND SIGNAL REAR LH (+)
5	W	SOUND SIGNAL REAR LH (-)
6	G	STRG SW A
7	Y	ACC
9	I	ILLUMINATION
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (+)
12	G	SOUND SIGNAL FRONT RH (-)

13	BR	SOUND SIGNAL REAR RH (+)
14	Y	SOUND SIGNAL REAR RH (-)
15	B	STRG SW GND
16	L	STRG SW B
19	Y	BATTERY

Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	Y	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
35	G	IGNITION
36	SB	PARKING BRAKE
37	O	REVERSE

38	GR	VEHICLE SPEED (8-PULSE)
40	W	CONNECTION RECOGNITION
41	B	CONTROL SIGNAL 1
43	B	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
48	L	AV COMM (H)
49	P	AV COMM (L)
50	V	AV COMM (H)
51	LG	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

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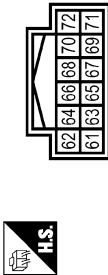
IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

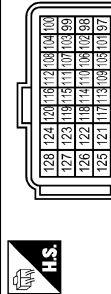
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
61	W	RGB (RED) SIGNAL
62	B	RGB (GREEN) SIGNAL
63	R	RGB (BLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (YS) SIGNAL (With rear view camera)
68	R	HP
69	W	VP
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

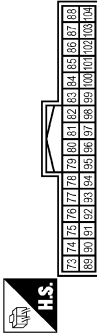
Connector No.	M107
Connector Name	ECM
Connector Type	RH24GY-R28-R-LH-Z



Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-LI
114	L	VEHCAN-HI

72	SHIELD	SHIELD
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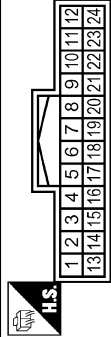
Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
79	R	iPod SOUND SIGNAL LH (+)
80	B	iPod SOUND SIGNAL RH (+)
81	SHIELD	SHIELD
85	LG	EJECT SIGNAL (With rear view camera)
86	SHIELD	SHIELD
87	W	AUX SOUND SIGNAL LH (+)
88	B	AUX SOUND SIGNAL GND
95	W	AUX SOUND SIGNAL LH (-)
96	G	iPod SOUND SIGNAL RH (-)
102	BR	SW GND
103	R	AUX SOUND SIGNAL RH (+)

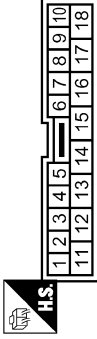
Terminal No.	Color of Wire	Signal Name [Specification]
13	W	iPod SOUND SIGNAL LH (-)
14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	R	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

Connector No.	M111
Connector Name	iPOD ADAPTER
Connector Type	TH24FW-NH



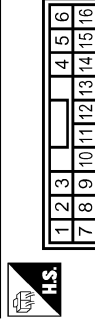
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER (With A/T)
9	L	CHARGE POWER (With M/T)
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod->iPod ADAPTER)
11	O	ACCESSORY IDENTITY
12	W	iPod SOUND SIGNAL RH (+)

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MP-NSS



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-- [With NAVI]
2	G	-- [With NAVI]
3	SHIELD	-- [With NAVI]

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP16FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTITY

IPOD ADAPTER

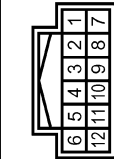
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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

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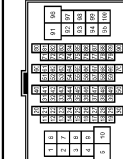
Connector No.	M114
Connector Name	WIRE TO WIRE
Connector Type	TH12TW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

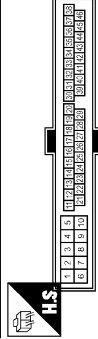
67	O	-
99	P	-
100	L	-

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4



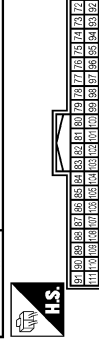
Terminal No.	Color of Wire	Signal Name [Specification]
51	P	-
52	V	-
53	LG	-
54	B	-
60	Y	-
61	SB	-
62	W	-
63	L	-
64	P	-
65	L	-
66	BR	-

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK36MW-NS10



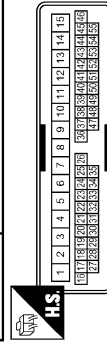
Terminal No.	Color of Wire	Signal Name [Specification]
30	LG	-
31	W	-
41	O	-

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	GR	-
12	BR	-

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IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M145
Connector Name	WIRE TO WIRE
Connector Type	TH2MW-NH



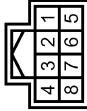
Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	ABBEW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+)
2	B	SOUND SIGNAL GND [W/ NAVI]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M155
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	- [With MAVI]
3	R	-
4	W	-
5	B	-
6	SHIELD	-
7	G	-
8	R	-

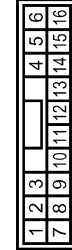
Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

12	P	-
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Connector No.	M182
Connector Name	IPod SIDE
Connector Type	IP16FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	IPod SOUND SIGNAL LH (+)
2	R	IPod SOUND SIGNAL GND
5	L	COMM (IPod->IPod ADAPTER)
6	P	COMM (IPod ADAPTER->IPod)
7	W	IPod SOUND SIGNAL RH (+)
9	W	IPod CONNECTION RECOGNITION
10	BR	GND
12	L	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTITY

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
14	W	-
15	L	-
17	BR	-

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IPOD ADAPTER

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[BOSE AUDIO WITH NAVIGATION]

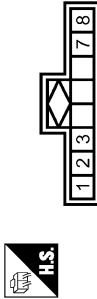
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M381
Connector Name	WIRE TO WIRE
Connector Type	TH2B2WV-RH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	R	-
4	W	-
5	SHIELD	-
6	SHIELD	-
7	G	-
8	R	-

Connector No.	M382
Connector Name	AUXILIARY INPUT JACKS
Connector Type	A08EV



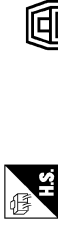
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+) [With NAVI]
2	B	SOUND SIGNAL GND [With NAVI]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M371
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SHZ-2/IS-HU



Terminal No.	Color of Wire	Signal Name [Specification]
105	-	FM SUB
106	-	AM-FM MAIN
107	-	AM/FM AMP. ON SIGNAL

Connector No.	M372
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKBA-JACK



Terminal No.	Color of Wire	Signal Name [Specification]
108	-	SAETLLITE ANTENNA
109	SHIELD	SHIELD

Connector No.	M373
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT5-IS-HU



Terminal No.	Color of Wire	Signal Name [Specification]
110	-	GPS ANTENNA
111	SHIELD	SHIELD

Connector No.	M374
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	SHIELD	-

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SCZ-2/IS-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M377	Connector No.	M378	Connector No.	M379	Connector No.	M380
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WINDOW ANTENNA (SUB)	Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU	Connector Type	GT13SCH-1/1PP-HU	Connector Type	P01FB-A	Connector Type	GT16C-1PP-HU

Terminal No.	1	Color of Wire	—	Signal Name [Specification]	—
2	—	—	—	—	—

Terminal No.	1	Color of Wire	—	Signal Name [Specification]	—
2	—	—	—	—	—

Terminal No.	1	Color of Wire	—	Signal Name [Specification]	—
2	—	—	—	—	—

Connector No.	M381	Connector No.	M382	Connector No.	M383	Connector No.	M385
Connector Name	WINDOW ANTENNA (MAIN)	Connector Name	WIRE TO WIRE	Connector Name	SATELLITE RADIO ANTENNA	Connector Name	WIRE TO WIRE
Connector Type	P01FB-A	Connector Type	GT16C-1S-HU	Connector Type	GT16C-1PP-HU	Connector Type	GT13SC-1/1S-HU

Terminal No.	1	Color of Wire	—	Signal Name [Specification]	—
2	—	—	—	—	—

Terminal No.	1	Color of Wire	—	Signal Name [Specification]	—
2	—	—	—	—	—

Terminal No.	1	Color of Wire	—	Signal Name [Specification]	—
2	—	—	—	—	—

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BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M386
Connector Name	ANTENNA AMP.
Connector Type	GT13SC-1/1S-HU



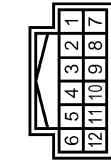
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP. ON SIGNAL
2	-	AM-FM MAIN

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NSB



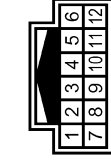
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	- [With NAVI]
2	G	- [With NAVI]
3	SHIELD	- [With NAVI]

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	R	- [With NAVI]
5	G	- [With NAVI]

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12MF-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-
5	R	-

Connector No.	R17
Connector Name	MICROPHONE
Connector Type	TK04FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	MICROPHONE SIGNAL
2	SHIELD	SHIELD
4	R	MICROPHONE VCC

NOTE:

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

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CAMERA CONTROL UNIT

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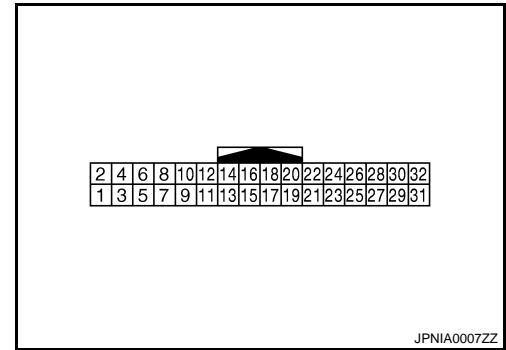
[BOSE AUDIO WITH NAVIGATION]

CAMERA CONTROL UNIT

Reference Value

INFOID:000000001558918

TERMINAL LAYOUT



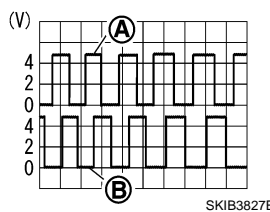
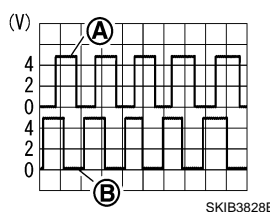
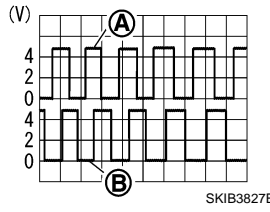
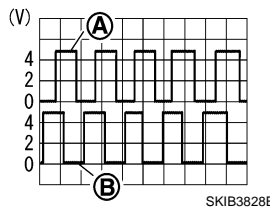
PHYSICAL VALUES

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
5	—	Shield	—	—	—	—
6 (B)	Ground	Camera image signal	Input	Ignition switch ON	At rear view camera image is displayed	
7 (W)	Ground	GND	—	Ignition switch ON	—	0 V
8 (R)	Ground	Camera ON signal	Output	Ignition switch ON	R position	6 V
					Other than R position	0 V
11	—	Shield	—	—	—	—
12 (W)	Ground	Camera image signal	Output	Ignition switch ON	At rear view camera image is displayed	
13 (B)	Ground	Control signal	—	Ignition switch ON	—	0 V
14 (GR)	Ground	Camera-connection recog- nition signal	Output	Ignition switch ON	Connected to camera con- trol unit connector	0 V
					Not connected to camera control unit connector	5 V
17 (P)	—	AV communication signal (L)	Input/ Output	—	—	—

CAMERA CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
18 (L)	—	AV communication signal (H)	Input/ Output	—	—	—
19 (R)	—	AV communication signal (L)	Input/ Output	—	—	—
20 (G)	—	AV communication signal (H)	Input/ Output	—	—	—
22 (GR)	Ground	Reverse signal	Input	Ignition switch ON	R position	12 V
				Other than R position	0 V	
23 (Y)	Ground	Sensor signal 1	Input	Ignition switch ON	Turn the steering to the right	 <p style="text-align: right; font-size: small;">SKIB3827E</p> <p style="text-align: center;">A: Sensor signal 1 B: Sensor signal 2</p>
					Turn the steering to the left	 <p style="text-align: right; font-size: small;">SKIB3828E</p> <p style="text-align: center;">A: Sensor signal 1 B: Sensor signal 2</p>
24 (SB)	Ground	Sensor signal 2	Input	Ignition switch ON	Turn the steering to the right	 <p style="text-align: right; font-size: small;">SKIB3827E</p> <p style="text-align: center;">A: Sensor signal 1 B: Sensor signal 2</p>
					Turn the steering to the left	 <p style="text-align: right; font-size: small;">SKIB3828E</p> <p style="text-align: center;">A: Sensor signal 1 B: Sensor signal 2</p>

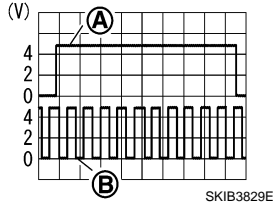
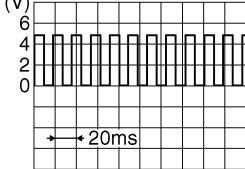
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CAMERA CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

Terminal (Wire color)		Description		Condition		Reference value (Approx.)
+	-	Signal name	Input/ Output			
25 (O)	Ground	Sensor signal 3	Input	Ignition switch ON	Turn the steering around the neutral position	 <p style="font-size: small;">A: Sensor signal 3 B: Sensor signal 1</p>
26 (V)	Ground	Vehicle speed signal (8-pulse)	Input	Ignition switch ON	When vehicle speed is ap- prox. 40 km/h (25 MPH)	<p>NOTE: Maximum voltage may be 12 V due to specifications (connected units).</p> 
30 (LG)	Ground	ACC power supply	Input	Ignition switch ACC	—	Battery voltage
31 (B)	Ground	GND	—	Ignition switch ON	—	0 V
32 (BR)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage

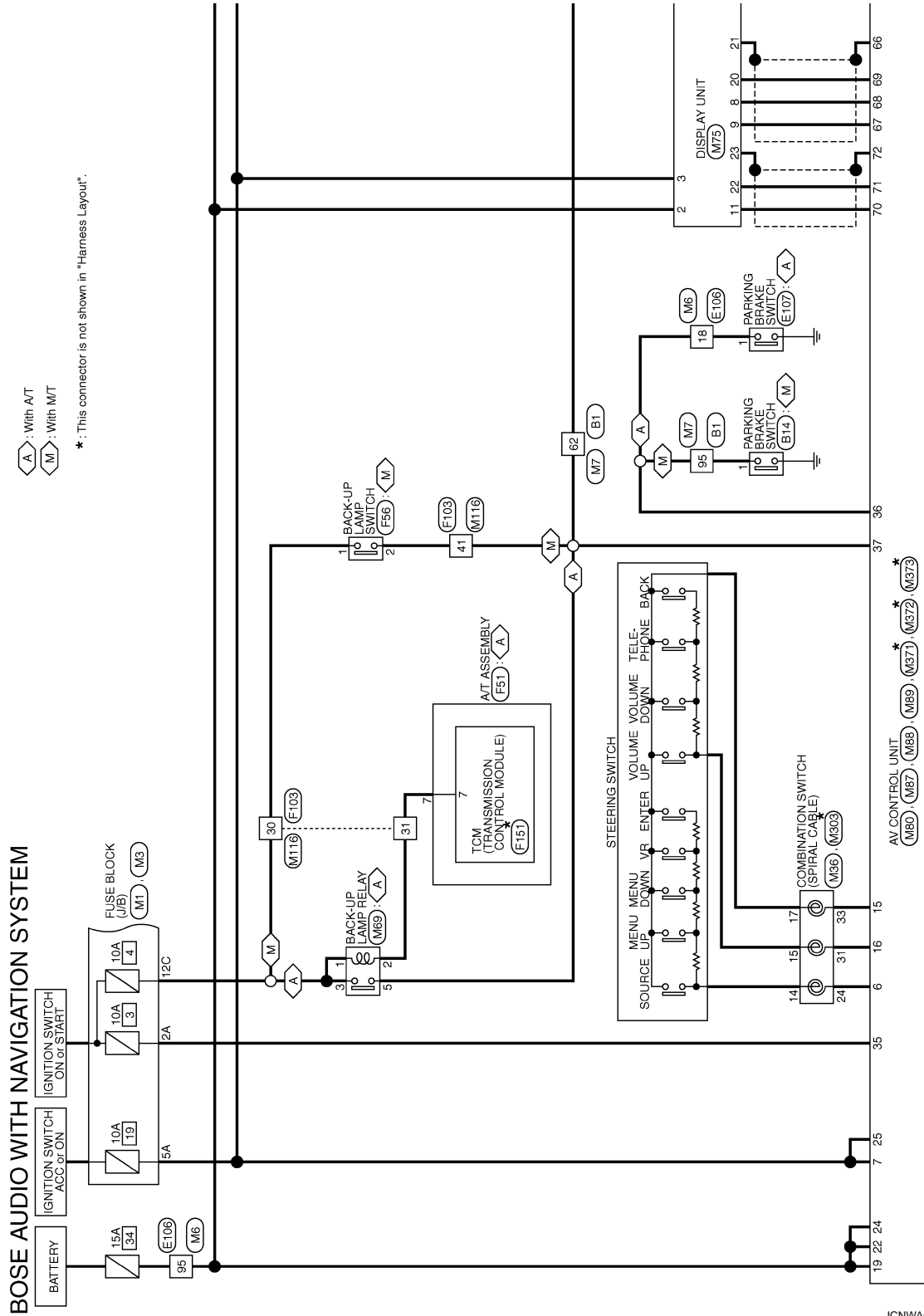
CAMERA CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

Wiring Diagram - BOSE AUDIO WITH NAVIGATION SYSTEM -

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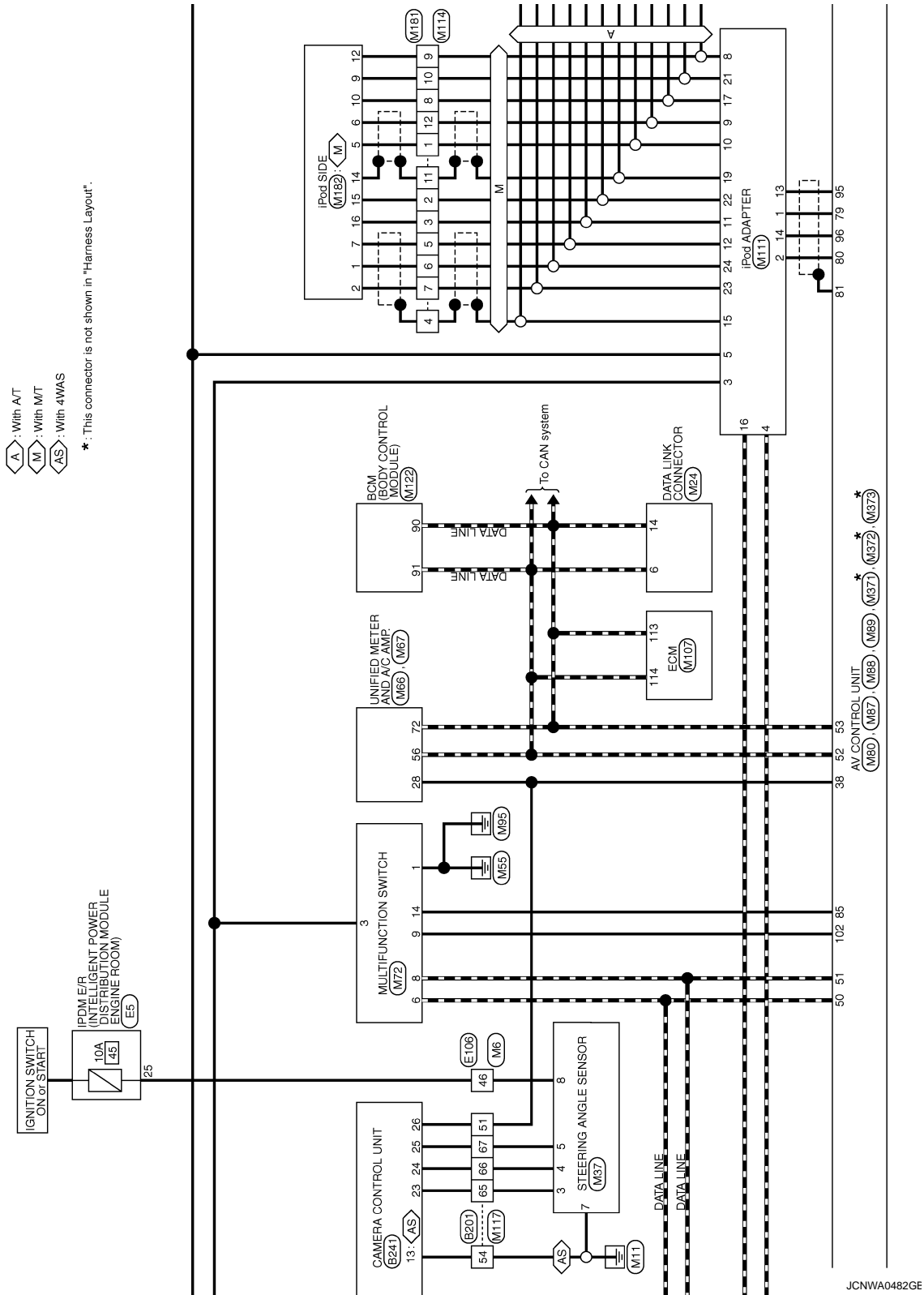
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CAMERA CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

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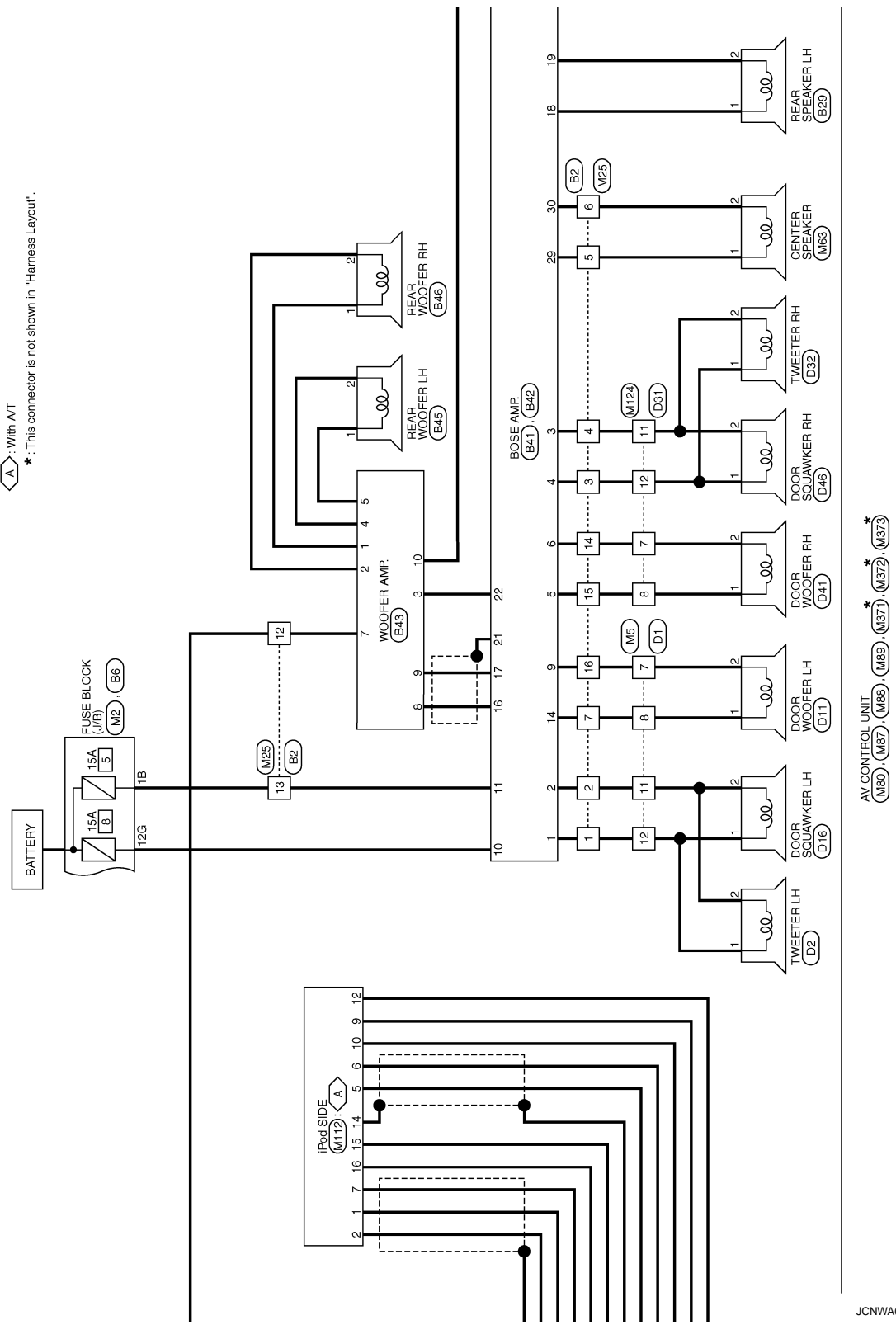
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CAMERA CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

< ECU DIAGNOSIS >

⬠ : With A/T
 * : This connector is not shown in "Harness Layout".



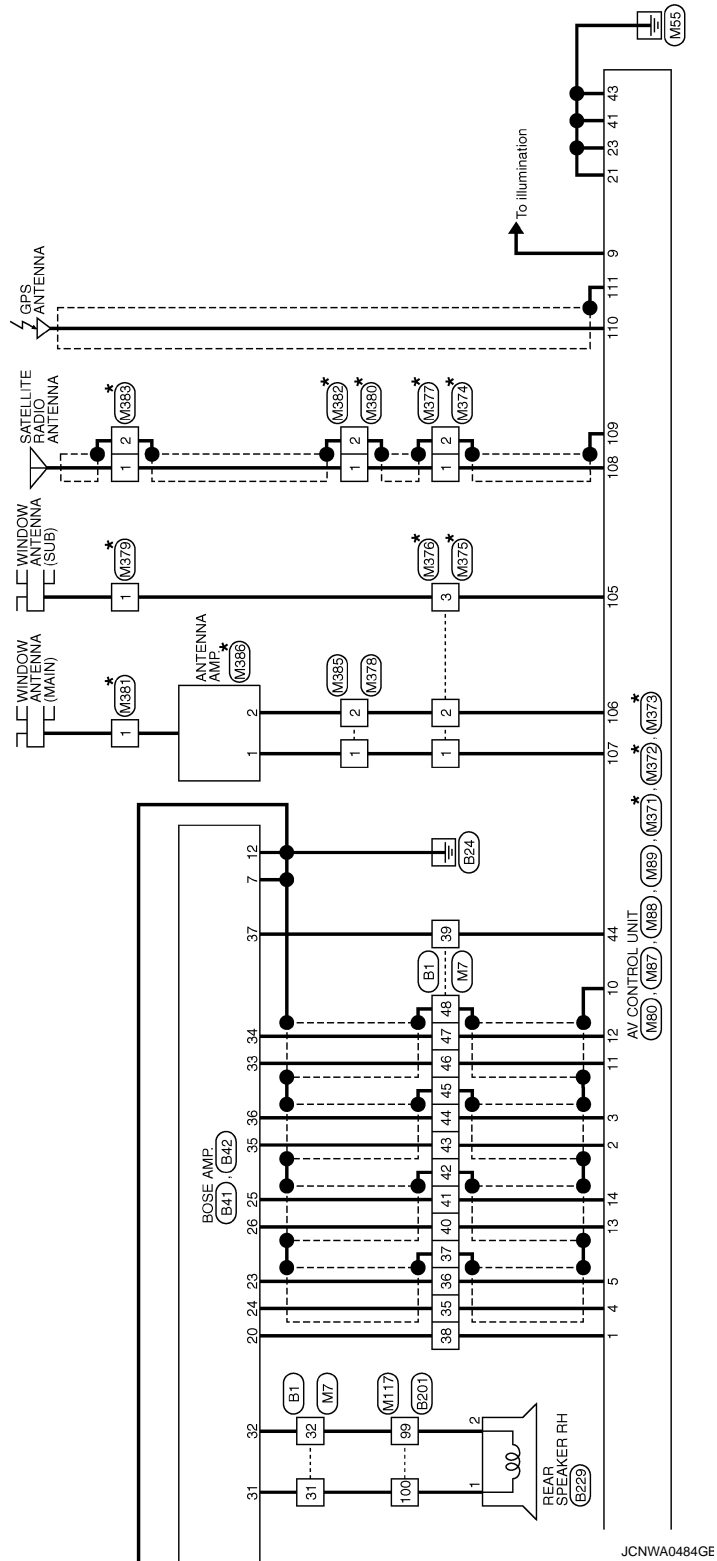
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CAMERA CONTROL UNIT

[BOSE AUDIO WITH NAVIGATION]

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*: This connector is not shown in "Harness Layout".



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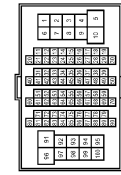
CAMERA CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	LG	-
32	Y	-
35	V	-
36	SB	-
37	SHIELD	-
38	W	-
39	SB	-
40	BR	-
41	Y	-
42	SHIELD	-
43	P	-

Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12PBR-CS



Terminal No.	1ZG	Y	-
Terminal No.	1ZG	Y	-

44	L	-
45	SHIELD	-
46	P	-
47	G	-
48	SHIELD	-
49	O	-
50	V	-

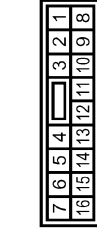


Connector No.	B14
Connector Name	PARKING BRAKE SWITCH (M/T)
Connector Type	P01FB-A



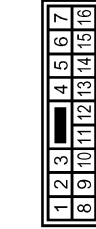
Terminal No.	1	V	-
Terminal No.	1	V	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	V	-
4	LG	-
5	L	-
6	O	-
7	B	-
12	Y	-
13	GR	-
14	R	-
15	G	-

Connector No.	B27
Connector Name	WIRE TO WIRE
Connector Type	NS38MW-CS



Terminal No.	5	B	-
Terminal No.	6	W	-
Terminal No.	7	R	-
Terminal No.	8	SHIELD	-

16	W	-
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Connector No.	B29
Connector Name	REAR SPEAKER LH
Connector Type	TK02MBR-P



Terminal No.	1	L	-
Terminal No.	2	P	-

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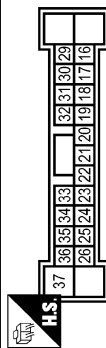
CAMERA CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

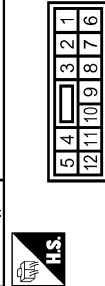
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B41
Connector Name	BOSE AMP.
Connector Type	SCA18FR-SGA4



Terminal No.	Color of Wire	Signal Name [Specification]
16	SB	SOUND SIGNAL WOOFER (+)
17	V	SOUND SIGNAL WOOFER (-)
18	L	SOUND SIGNAL REAR LH (+)
19	P	SOUND SIGNAL REAR LH (-)
20	W	AMP. ON SIGNAL
21	SHIELD	SHIELD
22	GR	WOOFER AMP. ON SIGNAL
23	SB	SOUND SIGNAL REAR LH (+)
24	V	SOUND SIGNAL REAR LH (-)
25	Y	SOUND SIGNAL REAR RH (+)
26	BR	SOUND SIGNAL REAR RH (-)

Connector No.	B43
Connector Name	WOOFER AMP.
Connector Type	NS22FW-CS

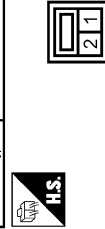


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	REAR WOOFER RH (+)
2	R	REAR WOOFER RH (-)
3	GR	WOOFER AMP. ON SIGNAL
4	B	REAR WOOFER LH (+)
5	W	REAR WOOFER LH (-)
7	Y	BATTERY
8	SB	SOUND SIGNAL WOOFER (+)
9	V	SOUND SIGNAL WOOFER (-)
10	B	GND

29	L	SOUND SIGNAL CENTER (+)
30	O	SOUND SIGNAL CENTER (-)
31	LG	SOUND SIGNAL REAR RH (+)
32	V	SOUND SIGNAL REAR RH (-)
33	R	SOUND SIGNAL FRONT RH (+)
34	G	SOUND SIGNAL FRONT RH (-)
35	P	SOUND SIGNAL FRONT LH (+)
36	L	SOUND SIGNAL FRONT LH (-)
37	SB	MODE CHANGE SIGNAL

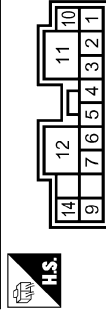
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	DOOR SQUAWKER LH (+)
2	W	DOOR SQUAWKER LH (-)
3	LG	DOOR SQUAWKER RH (+)
4	V	DOOR SQUAWKER RH (-)
5	G	DOOR WOOFER RH (+)
6	R	DOOR WOOFER RH (-)
7	B	GND
9	W	DOOR WOOFER LH (+)
10	Y	BATTERY
11	GR	BATTERY
12	B	GND

Connector No.	B46
Connector Name	REAR WOOFER RH
Connector Type	NS22FW-CS

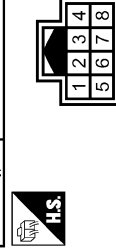


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SCA12FR-SJA2



Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	TH08MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	W	-
4	R	-
5	O	-

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CAMERA CONTROL UNIT

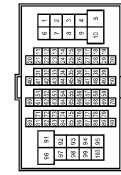
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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

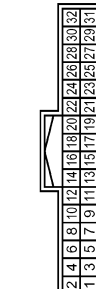
67	O	-
99	P	-
100	L	-

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH08PW-TM4



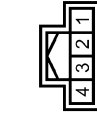
Terminal No.	Color of Wire	Signal Name [Specification]
51	V	-
52	L	- [With rear view camera]
53	P	- [With rear view camera]
54	B	-
60	BR	-
61	LG	-
62	GR	-
63	L	-
64	P	-
65	Y	-
66	SB	-

Connector No.	B241
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH02PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SHIELD	SHIELD
6	B	CAMERA IMAGE SIGNAL
7	W	GND
8	R	CAMERA ON SIGNAL
11	SHIELD	SHIELD
12	W	CAMERA IMAGE SIGNAL
13	B	CONTROL SIGNAL
14	GR	CONNECTION RECOGNITION
17	P	AV COMM (L)
18	L	AV COMM (R)
19	R	AV COMM (L)

Connector No.	B210
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH



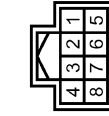
Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-

Connector No.	B229
Connector Name	REAR SPEAKER RH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	-

Connector No.	B243
Connector Name	WIRE TO WIRE
Connector Type	TH08PW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	W	-
4	R	-
5	GR	-

20	G	AV COMM (H)
22	GR	REVERSE
23	Y	SENSOR SIGNAL 1
24	SB	SENSOR SIGNAL 2
25	O	SENSOR SIGNAL 3
26	V	VEHICLE SPEED (8-PULSE)
30	LG	ACC
31	B	GND
32	BR	BATTERY

Connector No.	B301
Connector Name	WIRE TO WIRE
Connector Type	NS08PW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-
6	W	-
7	R	-
8	SHIELD	-

CAMERA CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

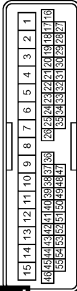
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	B305
Connector Name	REAR VIEW CAMERA
Connector Type	TH04MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	CAMERA ON SIGNAL
2	W	GND
3	Y	CAMERA IMAGE SIGNAL
4	SHIELD	SHIELD

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D2
Connector Name	TWEETER LH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D11
Connector Name	DOOR WOOFER LH
Connector Type	NS02FW-CS



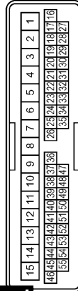
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	D16
Connector Name	DOOR SQUAWKER LH
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	W	-
12	L	-

Connector No.	D32
Connector Name	TWEETER RH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	D41
Connector Name	DOOR WOOFER RH
Connector Type	NS02FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	D46
Connector Name	DOOR SQUAWKER RH
Connector Type	TK02EBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	E5
Connector Name	IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-TV



Terminal No.	Color of Wire	Signal Name [Specification]
25	G	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



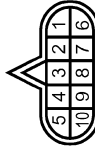
Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
46	W	-
95	Y	-

Connector No.	E107
Connector Name	PARKING BRAKE SWITCH (A/T)
Connector Type	TB01FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK0FG-DGY



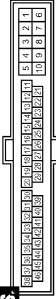
Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-

Connector No.	F56
Connector Name	BACK-UP LAMP SWITCH
Connector Type	RK02FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK08FW-NS10



Terminal No.	Color of Wire	Signal Name [Specification]
30	R	-
31	R	-
41	O	-

Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FEGY



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	REV LAMP RLY

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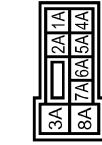
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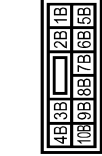
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



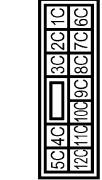
Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-
5A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



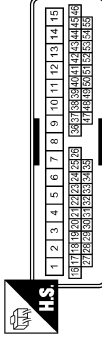
Terminal No.	Color of Wire	Signal Name [Specification]
1B	SB	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



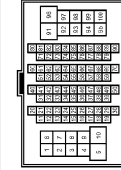
Terminal No.	Color of Wire	Signal Name [Specification]
12C	R	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



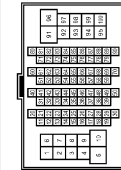
Terminal No.	Color of Wire	Signal Name [Specification]
7	W	-
8	B	-
11	W	-
12	L	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
18	O	-
46	G	-
95	Y	-

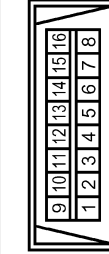
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
31	L	-
32	P	-
35	O	-
36	W	-
37	SHIELD	-
38	SE	-
39	SE	-
40	BR	-
41	Y	-
42	SHIELD	-
43	O	-

Terminal No.	Color of Wire	Signal Name [Specification]
44	W	-
45	SHIELD	-
46	R	-
47	G	-
48	SHIELD	-
62	O	-
95	O	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

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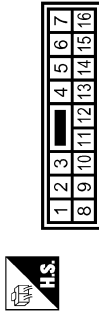
CAMERA CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M25
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	BR	-
4	GR	-
5	L	-
6	LG	-
7	B	-
12	Y	-
13	SB	-
14	R	-
15	G	-

Connector No.	M63
Connector Name	CENTER SPEAKER
Connector Type	TK02FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	LG	-

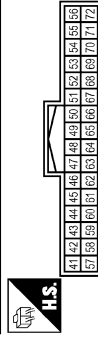
Terminal No.	16	W
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Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-TV



Terminal No.	Color of Wire	Signal Name [Specification]
24	G	-
31	L	-
33	B	-

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH03FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
56	L	CAN-H
72	P	CAN-L

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	SENSOR1
4	BR	SENSOR2
5	O	SENSOR3
7	B	GND
8	G	IGN

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	LG	-
5	O	-

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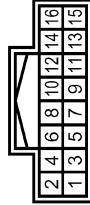
CAMERA CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

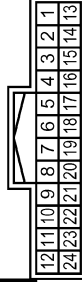
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



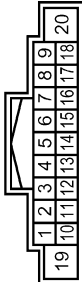
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	L	ACC
6	SB	AV COMM (H)
8	W	AV COMM (L)
9	BR	SW GND
14	SB	EJECT SIGNAL [With NAVI]

Connector No.	M75
Connector Name	DISPLAY UNIT (WITH NAVI)
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	LG	ACC
4	SHIELD	SHIELD
5	R	AUX IMAGE GND
6	B	RGB (G.GREEN) SIGNAL
7	SHIELD	SHIELD
8	R	HP
9	B	RGB AREA (V.S) SIGNAL [With rear view camera]
11	BR	COMM (CONT->DISP)
12	W	CAMERA IMAGE SIGNAL

Connector No.	M80
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	AMP_ON SIGNAL
2	O	SOUND SIGNAL FRONT LH (+)
3	W	SOUND SIGNAL FRONT LH (-)
4	O	SOUND SIGNAL REAR LH (+)
5	W	SOUND SIGNAL REAR LH (-)
6	G	STRG SW A
7	Y	ACC
9	I	ILLUMINATION
10	SHIELD	SHIELD
11	R	SOUND SIGNAL FRONT RH (+)
12	G	SOUND SIGNAL FRONT RH (-)

Terminal No.	13	BR	SOUND SIGNAL REAR RH (+)
14	Y	SOUND SIGNAL REAR RH (-)	
15	B	STRG SW GND	
16	L	STRG SW B	
19	Y	BATTERY	

13	B	GND
14	SHIELD	SHIELD
15	G	AUX IMAGE SIGNAL
17	W	RGB (RED) SIGNAL
18	R	RGB (BLUE) SIGNAL
19	G	RGB SYNC
20	W	VP
21	SHIELD	SHIELD
22	Y	COMM (DISP->CONT)
23	SHIELD	SHIELD

Connector No.	M87
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
21	B	GND
22	Y	BATTERY
23	B	GND
24	Y	BATTERY
25	V	ACC
26	G	MICROPHONE VCC
27	SHIELD	MICROPHONE GND
28	R	MICROPHONE SIGNAL
35	G	IGNITION
36	SB	PARKING BRAKE
37	O	REVERSE

38	GR	VEHICLE SPEED (8-PULSE)
40	W	CONNECTION RECOGNITION
41	B	CONTROL SIGNAL 1
43	B	CONTROL SIGNAL 3
44	SB	MODE CHANGE SIGNAL
48	L	AV COMM (H)
49	P	AV COMM (L)
50	V	AV COMM (H)
51	LG	AV COMM (L)
52	L	CAN-H
53	P	CAN-L

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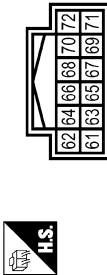
CAMERA CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

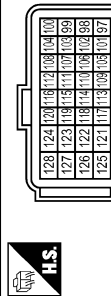
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M88
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
61	W	RGB (RED) SIGNAL
62	B	RGB (GREEN) SIGNAL
63	R	RGB (BLUE) SIGNAL
64	SHIELD	SHIELD
65	G	RGB SYNC
66	SHIELD	SHIELD
67	B	RGB AREA (YS) SIGNAL (With rear view camera)
68	R	HP
69	W	VP
70	BR	COMM (CONT->DISP)
71	Y	COMM (DISP->CONT)

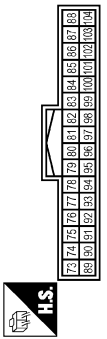
Connector No.	M107
Connector Name	ECM
Connector Type	RH24GY-R28-R-LH-Z



Terminal No.	Color of Wire	Signal Name [Specification]
113	P	VEHCAN-LI
114	L	VEHCAN-HI

72	SHIELD	SHIELD
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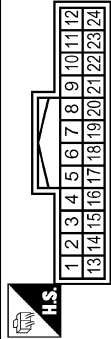
Connector No.	M89
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
79	R	iPod SOUND SIGNAL LH (+)
80	B	iPod SOUND SIGNAL RH (+)
81	SHIELD	SHIELD
85	LG	EJECT SIGNAL (With rear view camera)
86	SHIELD	SHIELD
87	W	AUX SOUND SIGNAL LH (+)
88	B	AUX SOUND SIGNAL LH (-)
95	W	AUX SOUND SIGNAL GND
96	G	iPod SOUND SIGNAL LH (-)
102	BR	SW GND
103	R	AUX SOUND SIGNAL RH (+)

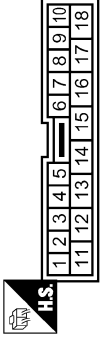
Terminal No.	Color of Wire	Signal Name [Specification]
13	W	iPod SOUND SIGNAL LH (-)
14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	G	AV COMM (H)
17	BR	GND
19	SHIELD	SHIELD
21	W	iPod CONNECTION RECOGNITION
22	G	ACCESSORY DETECT
23	R	iPod SOUND SIGNAL GND
24	B	iPod SOUND SIGNAL LH (+)

Connector No.	M111
Connector Name	iPod ADAPTER
Connector Type	TH24FW-NH



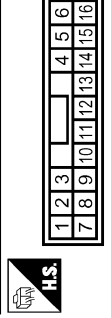
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	V	ACC
4	R	AV COMM (L)
5	Y	BATTERY
8	W	CHARGE POWER (With A/T)
8	L	CHARGE POWER (With M/T)
9	P	COMM (iPod ADAPTER->iPod)
10	L	COMM (iPod->iPod ADAPTER)
11	O	ACCESSORY IDENTITY
12	W	iPod SOUND SIGNAL RH (+)

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MP-NIS



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	--[With NAVI]
2	G	--[With NAVI]
3	SHIELD	--[With NAVI]

Connector No.	M112
Connector Name	iPod SIDE
Connector Type	IP16FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	iPod SOUND SIGNAL LH (+)
2	R	iPod SOUND SIGNAL GND
5	L	COMM (iPod->iPod ADAPTER)
6	P	COMM (iPod ADAPTER->iPod)
7	W	iPod SOUND SIGNAL RH (+)
9	W	iPod CONNECTION RECOGNITION
10	BR	GND
12	W	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTITY

CAMERA CONTROL UNIT

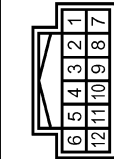
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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

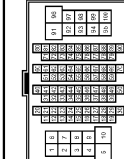
12	P	-
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Connector No.	M114
Connector Name	WIRE TO WIRE
Connector Type	TH12TW-NH



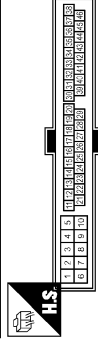
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-CS16-TM4



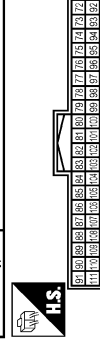
Terminal No.	Color of Wire	Signal Name [Specification]
51	P	-
52	V	-
53	LG	-
54	B	-
60	Y	-
61	SB	-
62	W	-
63	L	-
64	P	-
65	L	-
66	BR	-

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK36MW-NS10



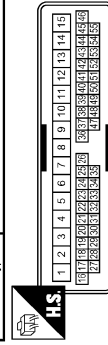
Terminal No.	Color of Wire	Signal Name [Specification]
30	LG	-
31	W	-
41	O	-

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	-
8	G	-
11	GR	-
12	BR	-

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CAMERA CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M145
Connector Name	WIRE TO WIRE
Connector Type	TH2MW-NH



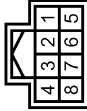
Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-

Connector No.	M154
Connector Name	AUXILIARY INPUT JACKS
Connector Type	AB8EW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+)
2	B	SOUND SIGNAL GND [W/ NAVI]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M155
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	- [With MAVI]
3	R	-
4	W	-
5	B	-
6	SHIELD	-
7	G	-
8	R	-

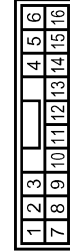
Connector No.	M181
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	O	-
4	SHIELD	-
5	W	-
6	B	-
7	R	-
8	BR	-
9	L	-
10	W	-
11	SHIELD	-

12	P	-
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Connector No.	M182
Connector Name	IPod SIDE
Connector Type	IP16FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	IPod SOUND SIGNAL LH (+)
2	R	IPod SOUND SIGNAL GND
5	L	COMM (IPod->IPod ADAPTER)
6	P	COMM (IPod ADAPTER->IPod)
7	W	IPod SOUND SIGNAL RH (+)
9	W	IPod CONNECTION RECOGNITION
10	BR	GND
12	L	CHARGE POWER
14	SHIELD	SHIELD
15	G	ACCESSORY DETECT
16	O	ACCESSORY IDENTITY

Connector No.	M303
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
14	W	-
15	L	-
17	BR	-

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CAMERA CONTROL UNIT

< ECU DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

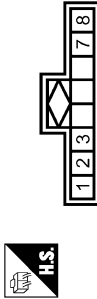
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M381
Connector Name	WIRE TO WIRE
Connector Type	TH2B2AW-RH



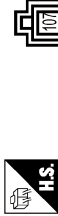
Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	R	-
4	W	-
5	SHIELD	-
6	SHIELD	-
7	G	-
8	R	-

Connector No.	M382
Connector Name	AUXILIARY INPUT JACKS
Connector Type	A08EW



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL RH (+) [With NAVI]
2	B	SOUND SIGNAL GND [With NAVI]
3	W	SOUND SIGNAL LH (+)
7	G	AUX IMAGE SIGNAL
8	R	AUX IMAGE GND

Connector No.	M371
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT13SHZ-2/IS-HU



Terminal No.	Color of Wire	Signal Name [Specification]
105	-	FM SUB
106	-	AM-FM MAIN
107	-	AM/FM AMP. ON SIGNAL

Connector No.	M372
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	FAKBA JACK



Terminal No.	Color of Wire	Signal Name [Specification]
108	-	SAETLLITE ANTENNA
109	SHIELD	SHIELD

Connector No.	M373
Connector Name	AV CONTROL UNIT (WITH NAVI)
Connector Type	GT5-IS-HU



Terminal No.	Color of Wire	Signal Name [Specification]
110	-	GPS ANTENNA
111	SHIELD	SHIELD

Connector No.	M374
Connector Name	WIRE TO WIRE
Connector Type	GT16C-1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	SHIELD	-

Connector No.	M375
Connector Name	WIRE TO WIRE
Connector Type	GT13SCZ-2/IS-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

Connector No.	M376
Connector Name	WIRE TO WIRE
Connector Type	GT13SCN-2/1PP-HU



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-

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CAMERA CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M377	Connector No.	M378	Connector No.	M379	Connector No.	M380
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE	Connector Name	WINDOW ANTENNA (SUB)	Connector Name	WIRE TO WIRE
Connector Type	GT16C-1S-HU	Connector Type	GT13SCH-1/1PP-HU	Connector Type	P01FB-A	Connector Type	GT16C-1PP-HU

Terminal No.	1	Color of Wire	—	Signal Name [Specification]	—
2	—	—	—	—	—
		SHIELD	—		—

Terminal No.	1	Color of Wire	—	Signal Name [Specification]	—
2	—	—	—	—	—
		SHIELD	—		—

Terminal No.	1	Color of Wire	—	Signal Name [Specification]	—
2	—	—	—	—	—
		SHIELD	—		—

Connector No.	M381	Connector No.	M382	Connector No.	M383	Connector No.	M385
Connector Name	WINDOW ANTENNA (MAIN)	Connector Name	WIRE TO WIRE	Connector Name	SATELLITE RADIO ANTENNA	Connector Name	WIRE TO WIRE
Connector Type	P01FB-A	Connector Type	GT16C-1S-HU	Connector Type	GT16C-1PP-HU	Connector Type	GT13SC-1/1S-HU

Terminal No.	1	Color of Wire	—	Signal Name [Specification]	—
2	—	—	—	—	—
		SHIELD	—		—

Terminal No.	1	Color of Wire	—	Signal Name [Specification]	—
2	—	—	—	—	—
		SHIELD	—		—

Terminal No.	1	Color of Wire	—	Signal Name [Specification]	—
2	—	—	—	—	—
		SHIELD	—		—

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CAMERA CONTROL UNIT

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[BOSE AUDIO WITH NAVIGATION]

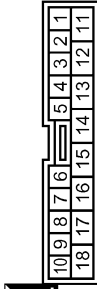
BOSE AUDIO WITH NAVIGATION SYSTEM

Connector No.	M386
Connector Name	ANTENNA AMP.
Connector Type	GT13SC-1/1S-HU



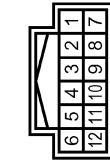
Terminal No.	Color of Wire	Signal Name [Specification]
1	-	ANTENNA AMP. ON SIGNAL
2	-	AM-FM MAIN

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NSB



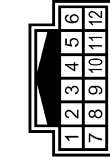
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	- [With NAVI]
2	G	- [With NAVI]
3	SHIELD	- [With NAVI]

Connector No.	R2
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



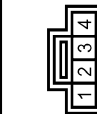
Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	R	- [With NAVI]
5	G	- [With NAVI]

Connector No.	R11
Connector Name	WIRE TO WIRE
Connector Type	TH12MF-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	W	-
5	R	-

Connector No.	R17
Connector Name	MICROPHONE
Connector Type	TK04FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	MICROPHONE SIGNAL
2	SHIELD	SHIELD
4	R	MICROPHONE VCC

NOTE:

The name MULTIFUNCTION SWITCH indicates the integration of PRESET SWITCH and MULTIFUNCTION SWITCH virtually.

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MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

MULTI AV SYSTEM SYMPTOMS

Symptom Table

INFOID:000000001558920

RELATED TO NAVIGATION

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take
Multifunction switch and preset switch operation does not work.	<ul style="list-style-type: none"> All switches cannot be operated. "MULTI AV" is displayed on system selection screen when the CONSULT-III is started. 	<ul style="list-style-type: none"> Multifunction switch power supply and ground circuit. AV communication circuit between AV control unit and multifunction switch. Perform CONSULT-III self-diagnosis. Refer to AV-403, "CONSULT - III Function (MULTI AV)" .
	<ul style="list-style-type: none"> All switches cannot be operated. "MULTI AV" is not displayed on system selection screen when the CONSULT-III is initialized. 	AV control unit power supply and ground circuit malfunction. Refer to AV-433, "AV CONTROL UNIT : Diagnosis Procedure" .
	Only specified switch cannot be operated.	Multifunction switch or preset switch malfunction. Perform multifunction switch and preset switch self-diagnosis function. Refer to AV-388, "Diagnosis Description" .
Fuel economy display, vehicle setting operation is abnormal.	There is malfunction in the CONSULT-III self-diagnosis result.	Perform detected DTC self-diagnosis. Refer to AV-403, "CONSULT - III Function (MULTI AV)" .
	There is no malfunction in the self-diagnosis results.	Ignition signal circuit malfunction. Refer to AV-433, "AV CONTROL UNIT : Diagnosis Procedure" .
Guide sound is not heard.	On the setting display select "system sound (guide sound volume, etc.)," and confirm that guide sound is ON.	AV control unit malfunction. Replace AV control unit. Refer to AV-608, "Exploded View" .

RELATED TO HANDS-FREE PHONE

- Check that the cellular phone is corresponding type (Bluetooth® correspond) when the hands-free related malfunction vehicle is in service before performing a diagnosis.
- There is a case that malfunction occurs due to the version change of the phone type, etc. even though it is a corresponding type. Therefore, confirm it by changing the cellular phone to another corresponding type phone, and check that it operates normally. It is necessary to distinguish whether the cause is the vehicle or cellular phone.

Simple check for Bluetooth® communication

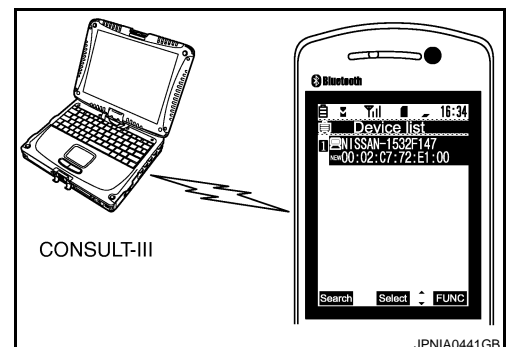
If cellular phone and AV control unit cannot be connected with Bluetooth® communication, following procedure allows the technician to judge which device has malfunction.

- Turn on a cellular phone, not connecting Bluetooth® communication.
- Start CONSULT-III, then start Windows®.
- Set CONSULT-III near a cellular phone.
- When operated Bluetooth® registration by cellular phone, check if CONSULT-III* would be displayed on the device name.
(If other Bluetooth® device is located near cellular phone, a name of the device would be displayed also.)

NOTE:

*:Displayed device name is "NISSAN-*****".

- If no device name is displayed, cellular phone is malfunctioning. Repair the cellular phone first, then perform diagnosis.
- If CONSULT-III is displayed on device name, cellular phone is normal. Perform diagnosis as per the following table.



MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]

< SYMPTOM DIAGNOSIS >

Trouble diagnosis chart by symptom

Symptoms	Check items	Probable malfunction location
Does not recognize cellular phone connection. (no connection is displayed on the display at the guide.)	Repeat the registration of cellular phone.	AV control unit malfunction. Replace AV control unit. Refer to AV-608, "Exploded View" .
Hands-free phone cannot be established.	<ul style="list-style-type: none"> Hands-free phone operation can be made, but the communication cannot be established. Hands-free phone operation can be performed, however, voice between each other cannot be heard during the conversation. 	AV control unit malfunction. Replace AV control unit. Refer to AV-608, "Exploded View" .
The other party's voice cannot be heard by hands-free phone.	Check the "microphone speaker" in Inspection & Adjustment Mode if sound is heard.	AV control unit malfunction. Replace AV control unit. Refer to AV-608, "Exploded View" .
	Check the "microphone speaker" in Inspection & Adjustment Mode if sound is not heard.	AV control unit malfunction. Replace AV control unit. Refer to AV-608, "Exploded View" .
Originating sound is not heard by the other party with hands-free phone communication.	Sound operation function is normal.	AV control unit malfunction. Replace AV control unit. Refer to AV-608, "Exploded View" .
	Sound operation function does not work.	Microphone signal circuit malfunction. Refer to AV-448, "Diagnosis Procedure" .

RELATED TO CAMERA

Trouble diagnosis chart by symptom

Symptoms	Check items	Probable malfunction location
Camera image is not displayed (displayed in black and nothing can be displayed)	AUX image is not displayed.	<ul style="list-style-type: none"> Horizontal synchronizing (HP) signal circuit malfunction between AV control unit and display unit. Refer to AV-443, "Diagnosis Procedure". Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit. Refer to AV-444, "Diagnosis Procedure".
Camera image is not shown. (Vehicle width and possible route line is displayed.)	—	<ul style="list-style-type: none"> Camera image signal circuit between camera control unit and rear view camera. Refer to AV-449, "Diagnosis Procedure". Rear view camera ON signal circuit. Refer to AV-450, "Diagnosis Procedure".
Camera image is not displayed. (Only warning message under area is displayed.)	There is malfunction in the CONSULT-III self-diagnosis result.	Perform detected DTC self-diagnosis. Refer to AV-403, "CONSULT - III Function (MULTI AV)" .
	AUX image is normal.	Camera image signal circuit malfunction between camera control unit and display unit. Refer to AV-451, "Diagnosis Procedure" .
	AUX image is not displayed.	RGB area (YS) signal circuit malfunction between AV control unit and display unit. Refer to AV-442, "Diagnosis Procedure" .
	Select "Camera Cont." of confirmation/Adjustment mode, Reverse Sensor is not turned ON at "Connection Confirmation".	Reverse signal circuit malfunction (camera control unit).
CAMERA image is rolling.	AUX image is also rolling.	Vertical synchronizing (VP) signal circuit malfunction between AV control unit and display unit. Refer to AV-444, "Diagnosis Procedure" .

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MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]

< SYMPTOM DIAGNOSIS >

Symptoms	Check items	Probable malfunction location
Camera image does not switch.	Malfunction of self-diagnosis result is indicated.	Camera-connection recognition signal circuit malfunction between AV control unit and camera control unit. Refer to AV-430, "Diagnosis Procedure" .
	Malfunction of self-diagnosis result is not indicated.	Reverse signal circuit malfunction (AV control unit).
Possible route line is indicated abnormally when camera image is displayed.	"Steer. Angle Sensor" turns ON at "Confirmation/Adjustment" of on board diagnosis item "Camera Cont." turns ON.	Sensor signal 3 circuit malfunction. Refer to AV-454, "Diagnosis Procedure" .
	"Steer. Angle Sensor" turns ON at "Confirmation/Adjustment" of on board diagnosis item "Camera Cont." does not turns ON.	<ul style="list-style-type: none"> Sensor signal 1 circuit. Refer to AV-452, "Diagnosis Procedure". Sensor signal 2 circuit. Refer to AV-452, "Diagnosis Procedure".

RELATED TO RGB IMAGE

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take
RGB image is not shown.	<ul style="list-style-type: none"> All RGB images are not shown. "MULTI AV" is displayed on system selection screen when the CONSULT-III is started. 	Perform CONSULT-III self-diagnosis. Refer to AV-403, "CONSULT - III Function (MULTI AV)" .
	<ul style="list-style-type: none"> All RGB images are not shown. "MULTI AV" is not displayed on system selection screen when the CONSULT-III is started. 	AV control unit power supply and ground circuit malfunction. Refer to AV-433, "AV CONTROL UNIT : Diagnosis Procedure" .
Color of RGB image is not proper.	Light blue (Cyan) tint.	RGB signal (R: red) circuit malfunction between AV control unit and display unit. Refer to AV-438, "Diagnosis Procedure" .
	Purple (Magenta) tint.	RGB signal (G: green) circuit malfunction between AV control unit and display unit. Refer to AV-439, "Diagnosis Procedure" .
	Screen looks yellowish.	RGB signal (B: blue) circuit malfunction between AV control unit and display unit. Refer to AV-440, "Diagnosis Procedure" .
RGB screen is rolling.	—	RGB synchronizing signal circuit malfunction between AV control unit and display unit. Refer to AV-441, "Diagnosis Procedure" .

RELATED TO VOICE CONTROL

Trouble diagnosis chart by symptom

Symptoms	Check items	Probable malfunction location
The voice cannot be controlled even if the voice control screen is displayed.	Voice sounds at "Voice Microphone Test" of Confirmation/Adjustment mode.	AV control unit malfunction. Replace AV control unit. Refer to AV-608, "Exploded View" .
	Voice does not sound at "Voice Microphone Test" of Confirmation/Adjustment mode.	Microphone circuit malfunction. Refer to AV-448, "Diagnosis Procedure" .
The voice cannot be controlled (Voice control screen is not displayed).	Steering switch's "SOURCE", "MENU UP", "MENU DOWN switch works," "ENTER" but "↵" it does not work.	Steering switch malfunction. Replace steering switch. Refer to AV-622, "Exploded View" .
	Steering switch's "SOURCE", "MENU UP", "MENU DOWN", "↵", "ENTER" switches do not work.	Steering switch signal A circuit malfunction. Refer to AV-455, "Diagnosis Procedure" .
	All steering switches do not work.	Steering switch signal GND circuit malfunction. Refer to AV-459, "Diagnosis Procedure" .

MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]

< SYMPTOM DIAGNOSIS >

RELATED TO AUDIO

Trouble diagnosis chart by symptom

Symptoms	Check items	Possible malfunction location / Action to take
The CD cannot be removed.	—	CD eject signal circuit malfunction between AV control unit and preset switch. Refer to AV-447, "Diagnosis Procedure" .
Audio sound is not heard.	No sound from all speakers.	<ul style="list-style-type: none"> Amp. ON signal circuit. BOSE amp. power supply and ground circuit. Refer to AV-435, "BOSE AMP. : Diagnosis Procedure" .
	Sound is not heard from rear woofer.	<ul style="list-style-type: none"> Woofer amp. power supply and ground circuit. Sound signal woofer circuit between BOSE amp. and woofer amp. Sound signal woofer circuit between woofer amp. and rear woofer. Woofer amp. ON signal circuit between BOSE amp. and woofer amp.
	Sound is not heard from center speaker.	Sound signal center speaker circuit.
	Sound is heard only from specific places (RH front, RH rear, LH front and LH rear).	Sound signal circuit of suspect system.
It does not change to "Driver's Audio Stage" mode.	—	Mode change signal circuit. Refer to AV-446, "Diagnosis Procedure" .
Satellite radio is not received.	There is malfunction in the CONSULT-III self-diagnosis result.	Perform CONSULT-III self-diagnosis. Refer to AV-403, "CONSULT - III Function (MULTI AV)" .
	There is no malfunction in the CONSULT-III self-diagnosis result.	Perform the following inspection procedure. <ol style="list-style-type: none"> Check satellite radio antenna mounting nut for looseness. NOTE: Tightening torque: 6.5 N·m (0.66 kg·m, 58 in·lb) Visually check for satellite radio antenna feeder. Replace the satellite radio antenna. Refer to AV-619, "Exploded View". Replace the AV control unit. Refer to AV-608, "Exploded View".
AM/FM radio is not received.	Other audio sounds are normal.	<ul style="list-style-type: none"> Antenna amp. ON signal circuit. Antenna feeder.

RELATED TO iPod®

Trouble diagnosis chart by symptom

Connect another iPod® and check if the symptom is reproduced or not. If the symptom is reproduced, diagnose the vehicle. If no malfunction is detected, replace the iPod harness.

NOTE:

It is unable to check that between iPod® and iPod harness.

Symptoms	Check items	Possible malfunction location / Action to take
The sound of iPod® is not heard.	Other audio sounds are normal.	<ul style="list-style-type: none"> iPod sound signal circuit between AV control unit and iPod adapter. iPod sound signal circuit between iPod® and iPod adapter.
It does not change to iPod mode.	There is malfunction in the CONSULT-III self-diagnosis.	Perform CONSULT-III self-diagnosis. Refer to AV-403, "CONSULT - III Function (MULTI AV)" .

MULTI AV SYSTEM SYMPTOMS

[BOSE AUDIO WITH NAVIGATION]

< SYMPTOM DIAGNOSIS >

Symptoms	Check items	Possible malfunction location / Action to take
"iPod is not connected" is displayed when it comes to iPod mode.	Connected to iPod®.	iPod connection recognition signal circuit between iPod® and iPod adapter.
iPod® cannot charge the battery.	—	iPod battery charge circuit between iPod® and iPod adapter.
The title of music file in the iPod® is not indicated.	—	Communication circuit between iPod® and iPod adapter.
Accessing the iPod® is unavailable from the vehicle.		

RELATED TO STEERING SWITCH

Trouble diagnosis chart by symptom

Symptoms	Probable malfunction location
None of the steering switch operations work.	Steering switch signal GND circuit malfunction. Refer to AV-459, "Diagnosis Procedure" .
Only specified switch (1) cannot be operated.	Steering switch malfunction. Refer to AV-622, "Exploded View" .
Steering switch's "SOURCE", "MENU UP", "MENU DOWN", "⏪", "ENTER" switches do not work.	Steering switch signal A circuit malfunction. Refer to AV-455, "Diagnosis Procedure" .
Steering switch's "⏩", "VOL UP", "VOL DOWN", "⏮" switches do not work.	Steering switch signal B circuit malfunction. Refer to AV-457, "Diagnosis Procedure" .

RELATED TO AUXILIARY INPUT

NOTE:

Check that there is no malfunction of AUX equipment main body before performing a diagnosis.

Trouble diagnosis chart by symptom

Symptoms	Check items	Probable malfunction location
No voice sound is heard when AUX mode is selected.	Voice sound is heard when other modes are selected.	AUX sound signal circuit (auxiliary input jacks to AV control unit).
Image is not displayed when AUX mode is selected.	Camera image is displayed.	AUX image signal circuit malfunction. Refer to AV-445, "Diagnosis Procedure" .

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

NORMAL OPERATING CONDITION

Description

INFOID:000000001558921

NOTE:

For Navigation system operation information, refer to Navigation system Owner's Manual.

BASIC OPERATIONS




Symptom	Possible cause	Possible solution
No image is displayed.	The brightness is at the lowest setting.	Adjust the brightness of the display.
	The systems in the video mode.	Push <DISC-AUX> to change the mode.
	The display is turned off.	Push <Day/Night> to turn on the display.
No voice guidance is available. Or The volume is too high or too low.	The volume is not set correctly, or it is turned off.	Adjust the volume of voice guidance.
	Voice guidance is not provided for certain streets (roads displayed in gray).	This is not a malfunction.
No map is displayed on the screen.	A screen other than map screen is displayed.	Push <MAP>.
The screen is too dim. The movement is slow.	The temperature in the interior of the vehicle is low.	Wait until the interior of the vehicle has warmed up.
Some pixels in the display are darker or brighter than others.	This condition is an inherent characteristic of liquid crystal displays.	This is not a malfunction.
Some menu items cannot be selected.	Some menu items become unavailable while the vehicle is driven.	Park the vehicle in a safe location, and then operate the navigation system.

NOTE:

Locations stored in the Address Book and other memory functions may be lost if the vehicle's battery is disconnected or becomes discharged. If this occurs, service the vehicle's battery as necessary and re-enter the information in the Address Book.

RELATED TO VOICE RECOGNITION

Related to basic operation

Symptom	Possible cause	Possible solution
The system does not recognize your command. or The system recognizes your command incorrectly	The interior of the vehicle is too noisy.	Close the windows or have other occupants quiet.
	The volume of your voice is too low.	Speak louder.
	The volume if your voice is too loud.	Speak softer.
	Your pronunciation is unclear.	Speak clearly.
	You are speaking before the voice recognition is ready	Push and release “  ” switch on the steering switch, and speak a command after the tone sounds.
	8 seconds or more have passed after you pushed and released “  ” switch on the steering switch.	Make sure to speak a command within 8 seconds after you push and release “  ” switch on the steering switch.
	Only a limited range of voice commands is usable for each screen.	Use a correct voice command appropriate for the current screen.
The fan of the air conditioner is too loud.	If the air conditioner is set to “Auto”, the fan speed is automatically lowered and voice commands can be recognized more easily. Lower the fan speed as necessary or set the air conditioner to “Auto”.	

Related to item choice

The system should respond correctly to all voice commands without difficulty. If problems are encountered, follow the solutions given in this guide for the appropriate error.

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Where the solutions are listed by number, try each solution in turn, starting with number one, until the problem is resolved.

Symptom/ error message	Solution
Displays "COMMAND NOT RECOGNIZED" or the system fails to interpret the command correctly.	1. Ensure that the command format is valid.
	2. Speak clearly without pausing between words and at a level appropriate to the ambient noise level.
	3. Ensure that the ambient noise level is not excessive, for example, windows open or defrost on. NOTE: If it is too noisy to use the phone, it is likely that voice commands will not be recognized.
	4. If optional words of the command have been omitted, then command should be tried with these in place.
The system consistently selects the wrong voicetag	1. Ensure that the voicetag requested matches what was originally stored. This can be confirmed by giving the "Addressbook" Directory or Phone Directory command.
	2. Replace one of the voicetags being confused with a different voicetag.

Related to telephone

The system should respond correctly to all voice commands without difficulty. If problems are encountered, try the following solutions.

Where the solutions are listed by number, try each solution in turn, starting with number 1, until the problem is resolved.

Symptom	Solution
System fails to interpret the command correctly.	1. Ensure that the command is valid.
	2. Ensure that the command is spoken after the tone.
	3. Speak clearly without pausing between words and at level appropriate to the ambient noise level in the vehicle.
	4. Ensure that the ambient noise level is not excessive (for example, windows open or defroster on). NOTE: If it is too noisy to use the phone, it is likely that the voice commands will not be recognized.
	5. If more than one command was said at a time, try saying the commands separately.
	6. If the system consistently fails to recognize commands, the voice training procedure should be carried out to improve the recognition response for the speaker. See "Speaker adaptation (SA) mode" earlier in this section. Refer to "OWNER'S MANUAL".
The system consistently selects the wrong voicetag	1. Ensure that the phone book entry name requested matches what was originally stored. This can be confirmed by using the "List Names" command.
	2. Replace one of the names being confused with a new name.

RELATED TO AUDIO

- The majority of the audio malfunctions are the result of outside causes (bad CD/cassette, electromagnetic interference, etc.). Check the symptoms below to diagnose the malfunction.
- The vehicle itself can be a source of noise if noise prevention parts or electrical equipment is malfunctioning. Check if noise is caused and/or changed by engine speed, ignition switch turned to each position, and operation of each piece of electrical equipment, and then determine the cause.

NOTE:

- CD-R is not guaranteed to play because they can contain compressed audio (MP3, WMA) or could be incorrectly mastered by the customer on a computer.
- Check if the CDs carry the Compact Disc Logo. If not, the disc is not mastered to the "red book" Compact Disc Standard and may not play.

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Symptom	Cause and Counter measure
Cannot play	Check if the CD/CF was inserted correctly.
	Check if the CD/CF is scratched or dirty.
	Check if there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.
	If there is a temperature increase error, the player will play correctly after it returns to the normal temperature.
	If there is a mixture of music CD files (CD-DA data) and MP3/WMA files on a CD, only the music CD files (CD-DA data) will be played.
	Files with extensions other than “.MP3”, “.WMA”, “.mp3”, or “.wma” cannot be played. In addition, the character codes and number of characters for folder names and file names should be in compliance with the specifications.
	Check if the disc or the file is generated in an irregular format, This may occur depending on the variation or the setting of MP3/WMA writing applications or other text editing applications.
	Check if the finalization process, such as session close and disc close, is done for the disc.
Poor sound quality	Check if the CD/CF is scratched or dirty.
	Check if the CD/CF is protected by copyright.
It takes a relatively long time before the music starts playing.	If there are many folder or file levels on the MP3/WMA CD/CF, or if it is a multisession disc, some time may be required before the music starts playing.
Music cuts off or skips	The writing software and hardware combination might not match, or the writing speed, writing depth, writing width might not match the specifications. Try using the slowest writing speed.
Skipping with high bit rate files	Skipping may occur with large quantities if data such as for high bit rate data.
Move immediately to the next song when playing	When a non-MP3/WMA file has been given an extension of “.MP3”, “.WMA”, “.mp3”, or “.wma”, or when play is prohibited by copyright protection, the player will skip to the next song.
The songs do not play back in the desired order.	The playback order is the order in which the files were written by the software, so the files might not play in the desired order.

Noise resulting from variations in field strength, such as fading noise and multi-path noise, or external noise from trains and other sources, is not a malfunction.

NOTE:

- Fading noise: This noise occurs because of variations in the field strength in a narrow range due to mountains or buildings blocking the signal.
- Multi-path noise: This noise results from a time difference between the broadcast waves directly from the station arriving at the antenna and the waves reflected by mountains or buildings.

RELATED TO VEHICLE ICON

Symptom	Possible cause	Possible solution
Names of roads differ between Plan View and Birdview™.	This is because the quantity of the displayed information is reduced so that the screen does not become too crowded. There is also a chance that names of the roads may be displayed multiple times, and the names appearing on the screen may be different because of a processing procedure.	This is not a malfunction.
The vehicle icon is not displayed in the correct position.	The vehicle was transported after the ignition switch was pushed off, for example, by a ferry or car transporter.	Drive the vehicle for a while on a road where GPS signals can be received.
	The position and direction of the vehicle icon may be incorrect depending on the driving environments and the levels of positioning accuracy of the navigation system.	This is not a malfunction. Drive the vehicle for a while to automatically correct the position and direction of the vehicle icon.
When the vehicle is traveling on a new road, the vehicle icon is located on another road nearby.	Because the new road is not stored in the map data, the system automatically places the vehicle icon on the nearest road available.	Updated road information will be included in the next version of the map data.

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Symptom	Possible cause	Possible solution
The screen does not switch to the night screen even after turning on the headlights.	The daytime screen was set the last time the headlights were turned on.	Set the screen to the night screen mode using <Day/Night> when you turn on the headlights.
The map does not scroll even when the vehicle is moving.	The current location map screen is not displayed.	Push <MAP>.
The vehicle icon is not displayed.	The current location map screen is not displayed.	Push <MAP>.
The location of the vehicle icon is misaligned from the actual position.	When using tire chains or replacing the tires, speed calculations based on the speed sensor may be incorrect.	Drive the vehicle for a while (at approximately 19 MPH for about 30 minutes) to automatically correct the vehicle icon position. If this does not correct the vehicle icon position, contact an INFINITI dealer.
	The map data has a mistake or is incomplete (the vehicle icon position is always misaligned in the same area).	Updated road information will be included in the next version of the map data.

RELATED TO ROUTE CALCULATION AND VISUAL GUIDANCE

Symptom	Possible cause	Possible solution
Waypoints are not included in the auto reroute calculation.	Waypoints that you have already passed are not included in the auto reroute calculation.	If you want to go to that waypoint again, you need to edit the route.
Route information is not displayed.	Route calculation has not yet been performed.	Set the destination and perform route calculation.
	You are not driving on the suggested route.	Drive on the suggested route.
	Route guidance is set to off.	Turn on route guidance.
	Route information is not provided for certain types of roads (roads displayed in gray).	This is not a malfunction.
The auto reroute calculation (or detour calculation) suggests the same route as the one previously suggested.	Route calculations took priority conditions into consideration, but the same route was calculated.	This is not a malfunction.
A waypoint cannot be added.	Five waypoints are already set on the route, including ones that you have already passed.	A maximum of 5 waypoints can be set on the route. If you want to go to 6 or more waypoints, perform route calculations multiple times as necessary.
The suggested route is not displayed.	Roads near the destination cannot be calculated.	Reset the destination to a main or ordinary road, and recalculate the route.
	The starting point and destination are too close.	Set a more distant destination.
	The starting point and destination are too far away.	Divide your trip by selecting one or two intermediate destinations, and perform route calculations multiple times.
	There are time restricted roads (by the day of the week, by time) near the current vehicle location or destination.	Set [Use Time Restricted Roads] to off.
The part of the route that you have already passed is deleted.	A route is managed by sections between waypoints. If you passed the first waypoint, the section between the starting point and the waypoint is deleted. (It may not be deleted depending on the area.)	This is not a malfunction.
An indirect route is suggested.	If there are restrictions (such as one-way streets) on roads close to the starting point or destination, the system may suggest an indirect route.	Adjust the location of the starting of the starting point or destination.
	The system may suggest an indirect route because route calculation does not take into consideration some areas such as narrow streets (gray roads.)	Reset the destination to a main or ordinary road, and recalculate the route.

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[BOSE AUDIO WITH NAVIGATION]

Symptom	Possible cause	Possible solution
The landmark information does not correspond to the actual information.	This may be caused by insufficient or incorrect map data.	Updated information will be included in the next version of the data.
The suggested route does not exactly connect to the starting point, waypoints, or destination.	There is no data for route calculation closes to these locations.	Set the starting point, waypoints and destination on a main road, and perform route calculation.

RELATED TO VOICE GUIDANCE

Symptom	Possible cause	Possible solution
Voice guidance is not available	Voice guidance is only available at certain intersections marked with? In some case, voice guidance is not available even when the vehicle should make a turn.	This is not a malfunction.
	The vehicle has deviated from the suggested route.	Go back to the suggested route or request route calculation again
	Voice guide is set to off.	Turn on voice guidance.
	Route guidance is set to off.	Turn on voice guidance.
The guidance contact does not correspond to the actual condition.	The contact of voice guidance may vary, depending on the types of intersections at which turn are made.	Follow all traffic rules and regulations.

RELATED TO TRAFFIC INFORMATION

Symptom	Possible cause	Possible solution
The traffic information is not displayed	The traffic information is not set to on.	Set the traffic information to on.
	You are in an area where traffic information is not available	Scroll to an area where traffic information is available
	You have not subscribed to XM NavTraffic or, your subscription to XM NavTraffic has expired.	Check your subscription status of XM NavTraffic.
	The map scale is set at a level where the display of icons is impossible.	Check that the map scale is set at a level in which the display of icons is possible.
With the automatic detour route search ON, no detour route is set to avoid congested areas.	There is no faster route compared to the current route, based on the road network and traffic information.	The automatic detour search is not intended for avoiding traffic jams. It searches for the fastest route taking into consideration such things as traffic jams.
The route does not avoid road section with traffic information stating it is closed due to road construction.	The navigation system is designed not to avoid this event because the actual period of closure may differ from the declared roadwork period.	Observe the actual road condition and follow the instructions on road for detour when necessary. If the road closure is for certain, use detour function and set the detour distance to avoid the closed road section.
Traffic information displayed differs from information from other media (e.g. radio).	Other media may use different information sources.	Observe the actual road conditions and regulations. Always observe safe driving practices and follow all traffic regulations.

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AV
O
P

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000001836877

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIRBAG" and "SEAT BELT" of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIRBAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Precaution for Trouble Diagnosis

INFOID:000000001558924

AV COMMUNICATION SYSTEM

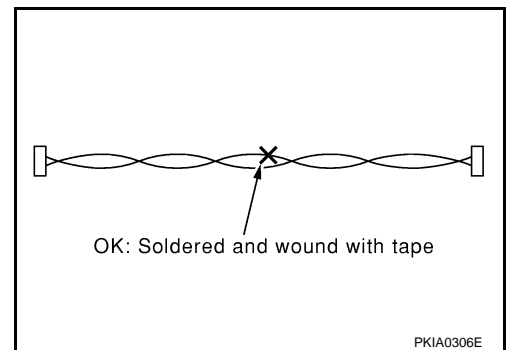
- Do not apply voltage of 7.0 V or higher to the measurement terminals.
- Use the tester with its open terminal voltage being 7.0 V or less.
- Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precaution for Harness Repair

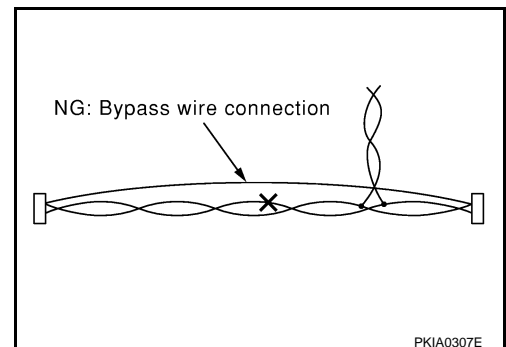
INFOID:000000001558925

AV COMMUNICATION SYSTEM

- Solder the repaired parts, and wrap with tape. [Frays of twisted line must be within 110 mm (4.33 in).]



- Do not perform bypass wire connections for the repair parts. (The spliced wire will become separated and the characteristics of twisted line will be lost.)

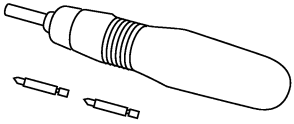


PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000001558926

Tool name	Description
<p>Power tool</p>  <p>PBIC0191E</p>	<p>Loosening bolts and nuts</p>

A
B
C
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AV
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P

AV

AV CONTROL UNIT

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

ON-VEHICLE REPAIR

AV CONTROL UNIT

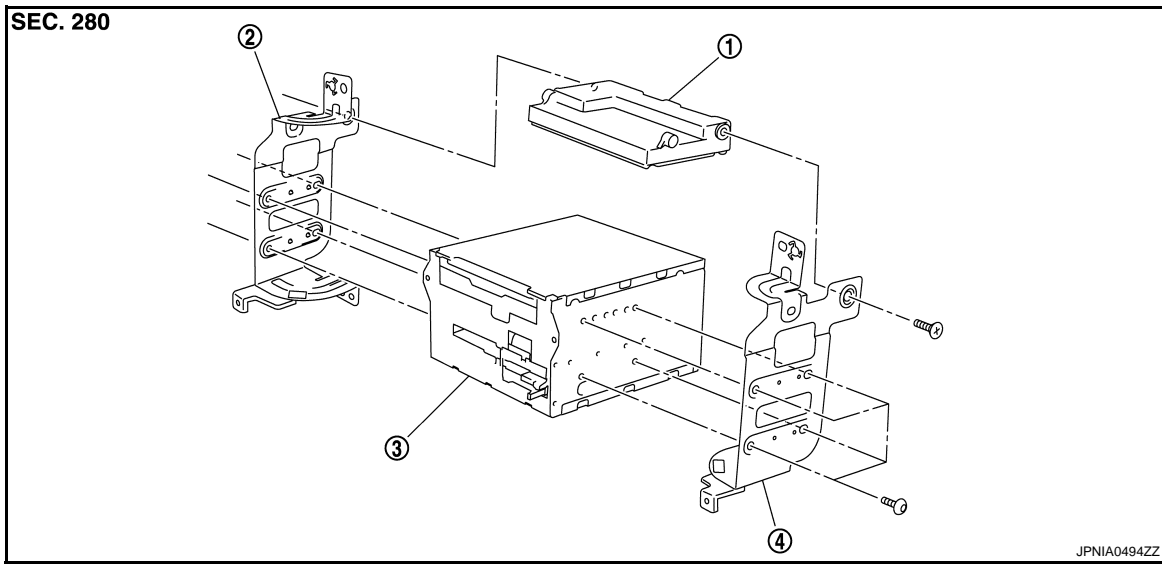
Exploded View

INFOID:000000001558927

REMOVAL

Refer to [IP-11. "Exploded View"](#).

DISASSEMBLY



- | | | |
|-------------------------------|---------------|--------------------|
| 1. Unified meter and A/C amp. | 2. Bracket LH | 3. AV control unit |
| 4. Bracket RH | | |

Removal and Installation

INFOID:000000001558928

REMOVAL

1. Remove Display unit.
2. Remove AV control unit with a unified meter and A/C amp. as a single unit from the body.
3. Remove bracket screws, and then remove AV control unit.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Since AV control unit connector and unified meter and A/C amp. connector have the same form, be careful not to insert them wrongly.

DISPLAY UNIT

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

DISPLAY UNIT

Exploded View

INFOID:000000001558929

Refer to [IP-11, "Exploded View"](#).

Removal and Installation

INFOID:000000001558930

REMOVAL

1. Remove cluster lid D. Refer to [IP-11, "Exploded View"](#).
2. Remove display unit with bracket as a single unit.

INSTALLATION

Install in the reverse order of removal.

A

B

C

D

E

F

G

H

I

J

K

L

M

AV

O

P

DOOR SQUAWKER

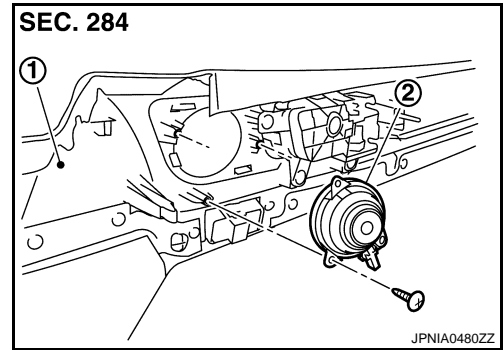
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

DOOR SQUAWKER

Exploded View

INFOID:000000001558931



1. Door finisher
2. Door squawker

Removal and Installation

INFOID:000000001558932

REMOVAL

1. Remove door finisher. Refer to [INT-11, "Exploded View"](#).
2. Remove door squawker from door finisher.

INSTALLATION

Install in the reverse order of removal.

DOOR WOOFER

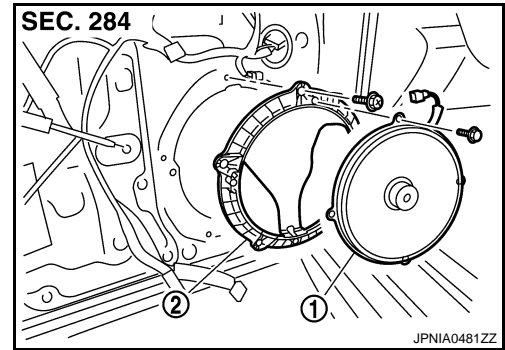
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

DOOR WOOFER

Exploded View

INFOID:000000001558933



1. Door woofer
2. Woofer bracket

Removal and Installation

INFOID:000000001558934

REMOVAL

1. Remove door finisher. Refer to [INT-11, "Exploded View"](#).
2. Remove door woofer from woofer bracket.

INSTALLATION

Install in the reverse order of removal.

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AV

REAR SPEAKER

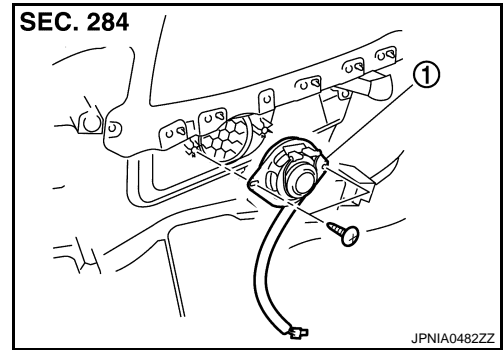
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

REAR SPEAKER

Exploded View

INFOID:000000001558935



1. Rear speaker

Removal and Installation

INFOID:000000001558936

REMOVAL

1. Remove rear side finisher. Refer to [INT-14, "Exploded View"](#).
2. Remove rear speaker from rear side finisher.

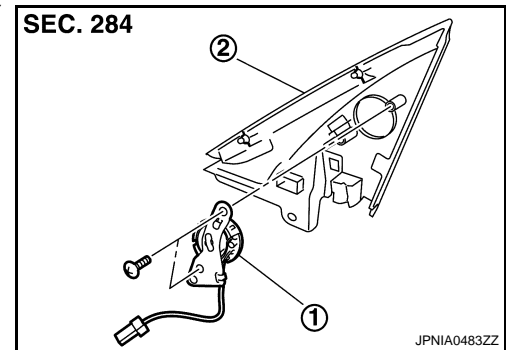
INSTALLATION

Install in the reverse order of removal.

TWEETER

Exploded View

INFOID:000000001558937



1. Tweeter
2. Corner cover inner

Removal and Installation

INFOID:000000001558938

REMOVAL

1. Remove door finisher, and then remove corner cover inner. Refer to [INT-11. "Exploded View"](#).
2. Remove tweeter from corner cover inner.

INSTALLATION

Install in the reverse order of removal.

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CENTER SPEAKER

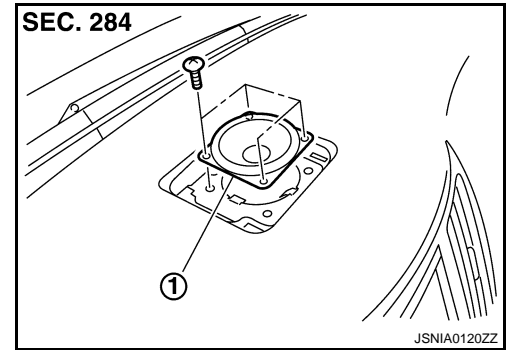
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

CENTER SPEAKER

Exploded View

INFOID:000000001558939



1. Center speaker

Removal and Installation

INFOID:000000001558940

REMOVAL

1. Remove upper grille, and then remove center speaker. Refer to [IP-11, "Exploded View"](#).

INSTALLATION

Install in the reverse order of removal.

REAR WOOFER

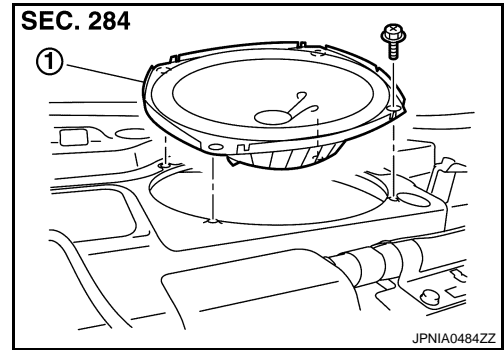
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

REAR WOOFER

Exploded View

INFOID:000000001558941



1. Rear woofer

Removal and Installation

INFOID:000000001558942

REMOVAL

1. Remove rear parcel shelf finisher. Refer to [INT-17, "Exploded View"](#).
2. Remove rear woofer from rear parcel shelf.

INSTALLATION

Install in the reverse order of removal.

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BOSE AMP.

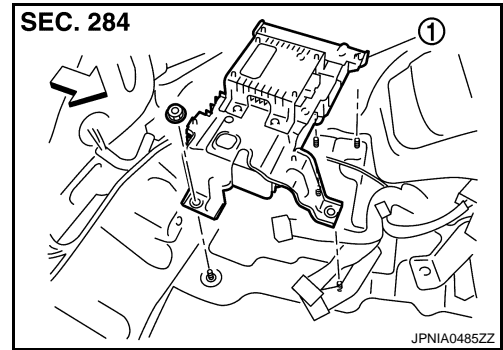
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

BOSE AMP.

Exploded View

INFOID:000000001558943



⇨: Vehicle front

1. BOSE amp.

Removal and Installation

INFOID:000000001558944

REMOVAL

1. Remove trunk floor spacer LH. Refer to [INT-27. "Exploded View"](#).
2. Remove BOSE amp. from trunk room LH.

INSTALLATION

Install in the reverse order of removal.

WOOFER AMP.

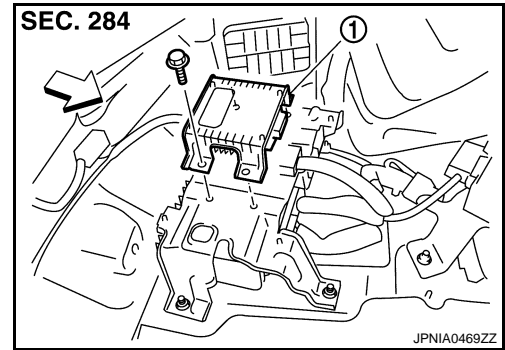
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

WOOFER AMP.

Exploded View

INFOID:000000001678439



- ⇒: Vehicle front
1. Woofer amp.

Removal and Installation

INFOID:000000001678440

REMOVAL

1. Remove trunk floor spacer LH. Refer to [INT-27. "Exploded View"](#).
2. Remove Woofer amp. from BOSE amp.

INSTALLATION

Install in the reverse order of removal.

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ANTENNA AMP.

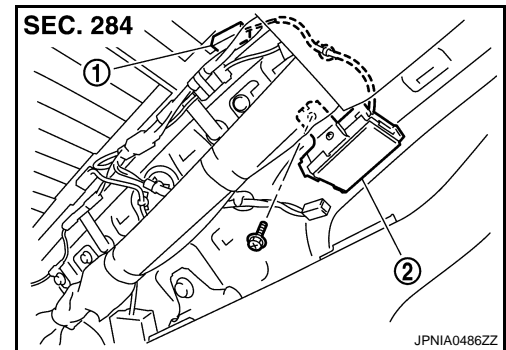
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

ANTENNA AMP.

Exploded View

INFOID:000000001558945



1. AM-FM main connector
2. Antenna amp.

Removal and Installation

INFOID:000000001558946

REMOVAL

1. Remove back pillar garnish LH. Refer to [INT-14. "Exploded View"](#).
2. Remove antenna amp. from rear pillar LH.

INSTALLATION

Install in the reverse order of removal.

SATELLITE RADIO ANTENNA

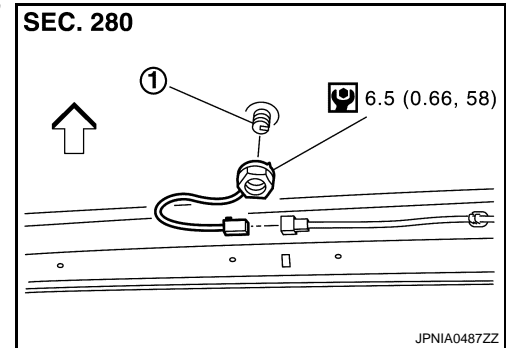
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

SATELLITE RADIO ANTENNA

Exploded View

INFOID:000000001558949



⇨: Vehicle front

1. Satellite radio antenna

Removal and Installation

INFOID:000000001558950

REMOVAL

1. Remove headlining assembly (rear) to secure work space between vehicle and headlining. Refer to [INT-21, "NORMAL ROOF : Exploded View"](#) [with normal roof] [INT-24, "SUNROOF : Exploded View"](#) [with sun-roof].
2. Remove nuts, and then remove satellite radio antenna from roof panel.

INSTALLATION

Install in the reverse order of removal.

Roof antenna mounting nut : 6.5 N·m (0.66 kg-m, 58 in-lb)

CAUTION:

Be careful about tightening torque. Antenna sensitivity becomes poor, and when it is excessive, roof panel may be deformed, when roof antenna mounting nut tightening torque is loose.

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AV

MULTIFUNCTION SWITCH

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

MULTIFUNCTION SWITCH

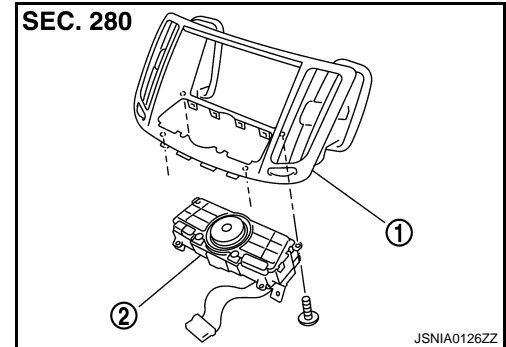
Exploded View

INFOID:000000001558951

REMOVAL

Refer to [IP-11, "Exploded View"](#).

DISASSEMBLY



1. Center ventilator grille
2. Multifunction switch

Removal and Installation

INFOID:000000001558952

REMOVAL

1. Remove cluster lid D. Refer to [IP-11, "Exploded View"](#).
2. Remove multifunction switch with center ventilator grille as a single unit.
3. Remove multifunction switch from center ventilator.

INSTALLATION

Install in the reverse order of removal.

PRESET SWITCH

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

PRESET SWITCH

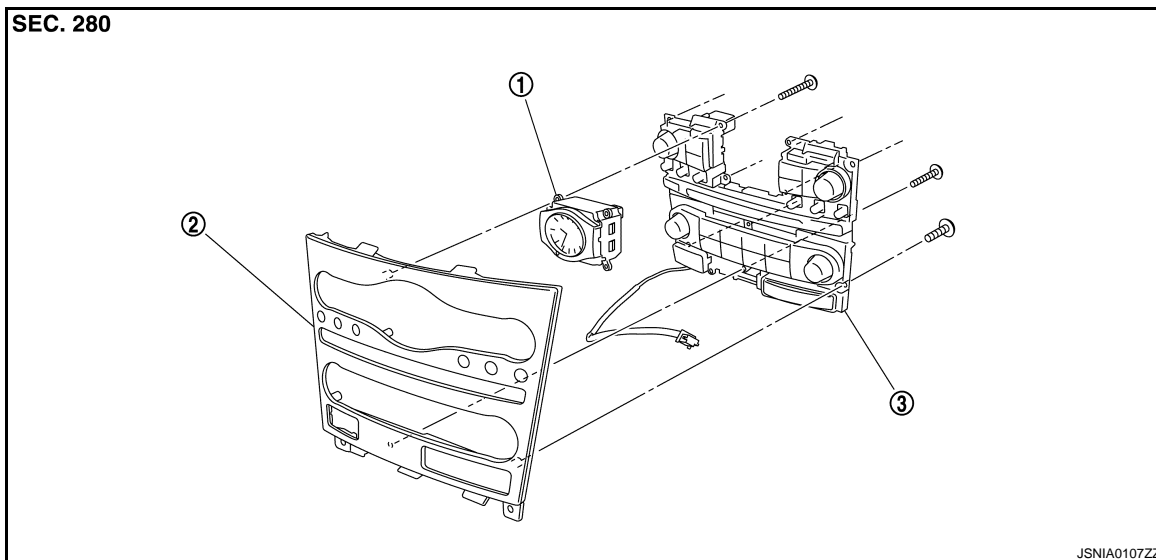
Exploded View

INFOID:000000001558953

REMOVAL

Refer to [IP-11, "Exploded View"](#).

DISASSEMBLY



1. Clock

2. Cluster lid C

3. Preset switch

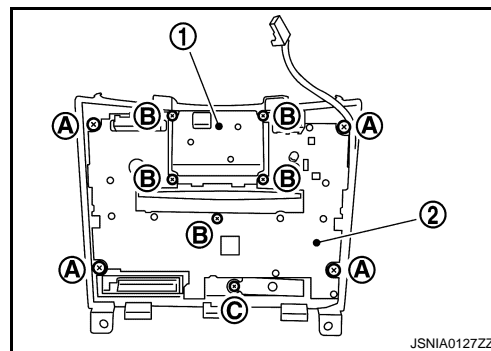
Removal and Installation

INFOID:000000001558954

REMOVAL

1. Remove cluster lid C. Refer to [IP-11, "Exploded View"](#).
2. Remove preset switch (2) from cluster lid C.

- 1. Clock
- A. Screw
- B. Screw
- C. Screw



INSTALLATION

Install in the reverse order of removal.

NOTE:

When installing preset switch, do not allow the print wire that connects preset switch and multifunction switch to get caught in between AV control unit and preset switch.

STEERING SWITCH

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

STEERING SWITCH

Exploded View

INFOID:000000001558955

Refer to [ST-15. "Exploded View"](#).

Removal and Installation

INFOID:000000001558956

REMOVAL

Refer to [ST-15. "Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

IPOD ADAPTER

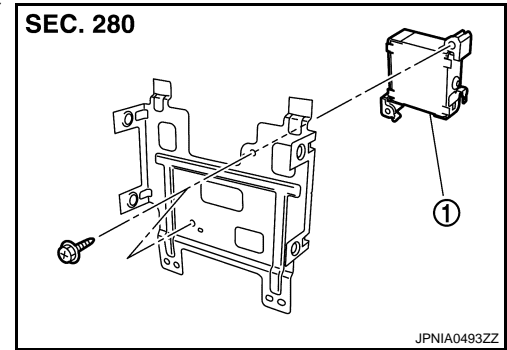
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

IPOD ADAPTER

Exploded View

INFOID:000000001558957



1. iPod adapter

Removal and Installation

INFOID:000000001558958

REMOVAL

1. Remove display assy. Refer to [AV-609. "Removal and Installation"](#).
2. Remove display from display bracket.
3. Remove iPod adapter from display bracket.

INSTALLATION

Install in the reverse order of removal.

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AV

IPOD CONNECTOR

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

IPOD CONNECTOR

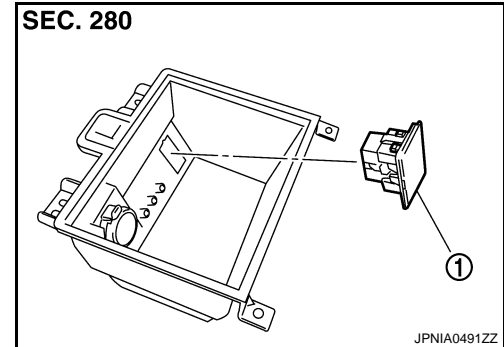
Exploded View

INFOID:000000001736028

REMOVAL

Refer to [IP-23, "Exploded View"](#).

DISASSEMBLY



1. iPod connector

Removal and Installation

INFOID:000000001736029

REMOVAL

1. Remove center console. (M/T models) Refer to [IP-23, "Exploded View"](#).
Remove center console. (A/T models) Refer to [IP-23, "Exploded View"](#).
2. Push the pawl from the back of center console to remove iPod connector.

INSTALLATION

Install in the reverse order of removal.

AUXILIARY INPUT JACKS

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

AUXILIARY INPUT JACKS

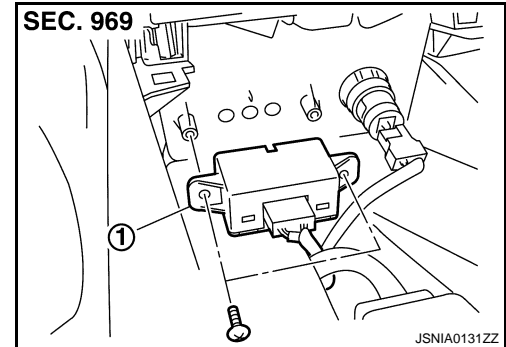
Exploded View

INFOID:000000001558959

REMOVAL

Refer to [IP-23, "Exploded View"](#).

DISASSEMBLY



1. Auxiliary input jacks

Removal and Installation

INFOID:000000001558960

REMOVAL

1. Remove center console. (M/T models) Refer to [IP-23, "Exploded View"](#).
Remove center console cup. (A/T models) Refer to [IP-23, "Exploded View"](#).
2. Remove auxiliary input jacks from center console. (M/T models)
Remove auxiliary input jacks from center console cup. (A/T models)

INSTALLATION

Install in the reverse order of removal.

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AV

MICROPHONE

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

MICROPHONE

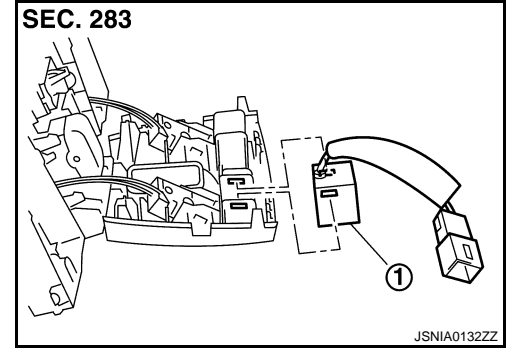
Exploded View

INFOID:000000001558961

REMOVAL

Refer to [INL-97, "Exploded View"](#).

DISASSEMBLY



1. Microphone

Removal and Installation

INFOID:000000001558962

REMOVAL

1. Remove map lamp. Refer to [INL-97, "Exploded View"](#).
2. Remove microphone from map lamp.

INSTALLATION

Install in the reverse order of removal.

GPS ANTENNA

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

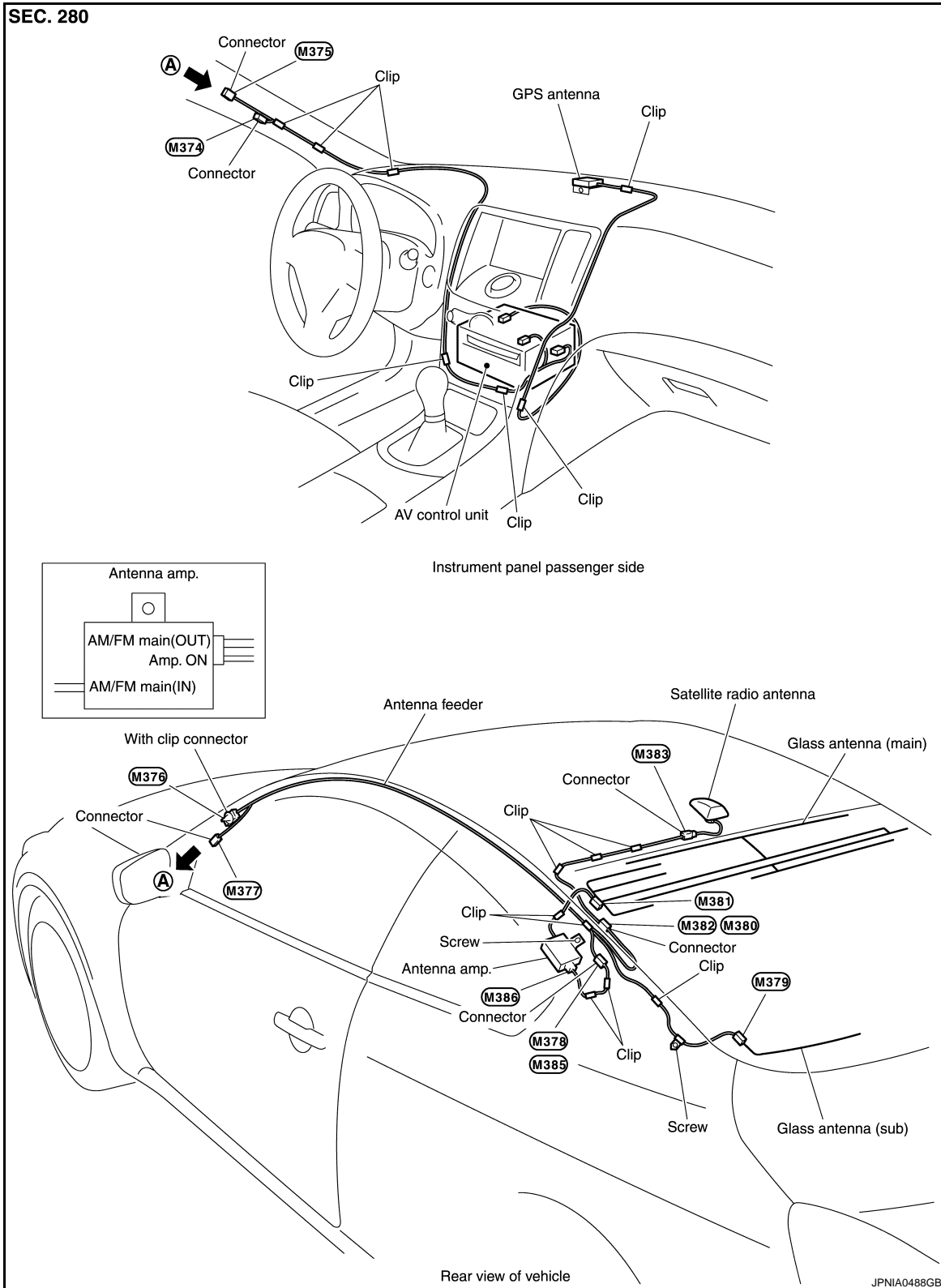
GPS ANTENNA

Exploded View

INFOID:000000001558963

Harness Layout

INFOID:000000001558964



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GPS ANTENNA

< ON-VEHICLE REPAIR >

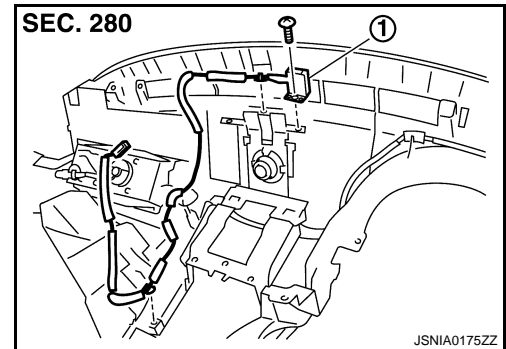
[BOSE AUDIO WITH NAVIGATION]

Removal and Installation

INFOID:000000001558965

REMOVAL

1. Remove instrument panel. Refer to [IP-11, "Exploded View"](#).
2. Remove GPS antenna (1) from instrument panel.



INSTALLATION

Install in the reverse order of removal.

CAMERA CONTROL UNIT

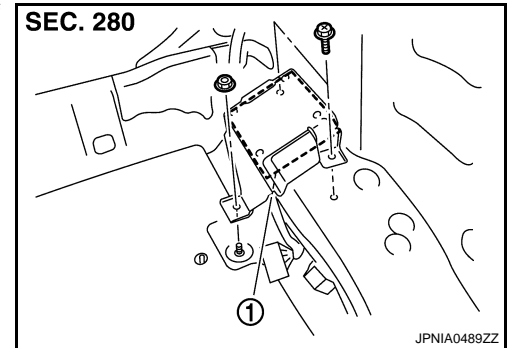
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

CAMERA CONTROL UNIT

Exploded View

INFOID:000000001558966



1. Camera control unit

Removal and Installation

INFOID:000000001558967

REMOVAL

1. Remove rear wheel house finisher (RH), and then remove camera control unit. Refer to [INT-27, "Exploded View"](#).

INSTALLATION

Install in the reverse order of removal.

Adjustment

INFOID:000000001558968

ADJUSTMENT

There may be a misalignment of possible route line center position of rear view monitor after removing camera control unit. Therefore, correct neutral position with the following procedure.

1. Steer the steering wheel to the leftmost and rightmost ends.
2. Drive vehicle at 30 km/h (18.6 MPH) min. speed at least 100 m (328.1 ft).

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AV

REAR VIEW CAMERA

Exploded View

INFOID:000000001558969

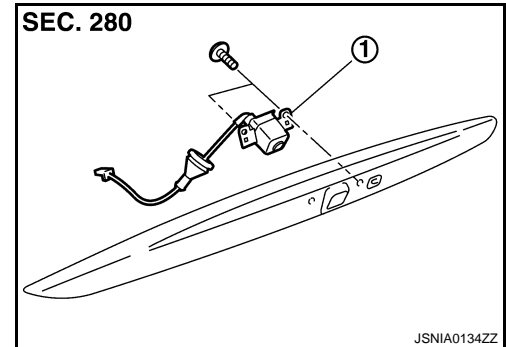
REMOVAL (WITHOUT REAR SPOILER)

Refer to [EXT-37, "TRUNK LID OUTER FINISHER : Exploded View"](#).

REMOVAL (WITH REAR SPOILER)

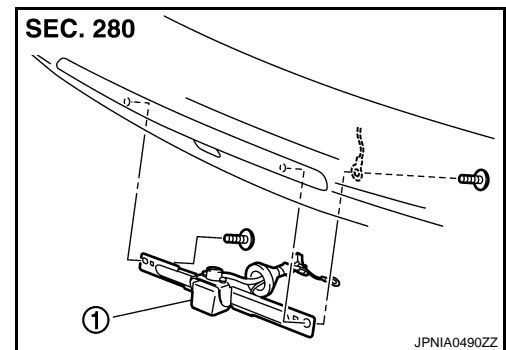
Refer to [EXT-41, "Exploded View"](#).

DISASSEMBLY (WITHOUT REAR SPOILER)



1. Rear view camera

DISASSEMBLY (WITH REAR SPOILER)



1. Rear view camera

Removal and Installation

INFOID:000000001558970

REMOVAL

Without rear spoiler

1. Remove trunk lid finisher outer. Refer to [EXT-37, "TRUNK LID OUTER FINISHER : Exploded View"](#).
2. Remove rear view camera from trunk lid finisher outer.

With rear spoiler

1. Remove rear spoiler. Refer to [EXT-41, "Exploded View"](#).
2. Remove rear view camera from rear spoiler.

INSTALLATION

Install in the reverse order of removal.

Adjustment

INFOID:000000001558971

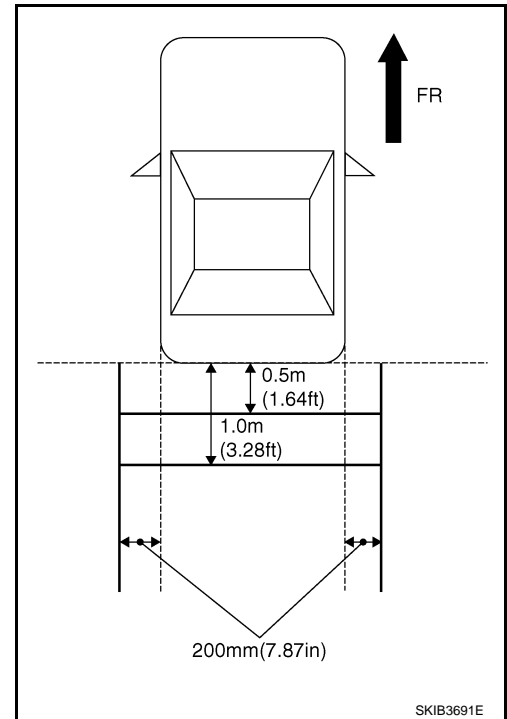
Adjust the guide line position if the guide line position is shifted after installing the rear view camera.

REAR VIEW CAMERA

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

1. Draw lines on rearward area of the vehicle passing through the following points: 200 mm (7.87 in) from both sides of the vehicle, and 0.5 m (1.64 ft), 1.0 m (3.28 ft) from the rear end of the bumper.
2. Set into "Adjust offset of rear view camera" mode of Confirmation / Adjustment mode.



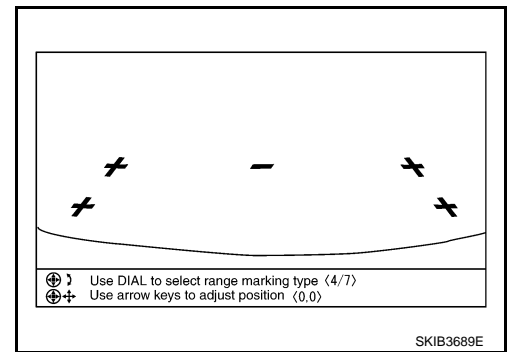
3. Rotate the center dial, and then select the guiding line pattern so that its angle is aligned with the correction line of the rear of the vehicle.

Selected pattern : 7

4. Make fine adjustment to the correction line of the rear of the vehicle with up/down/left/right switches so that its position is aligned with the guiding line. Press ""

Up/Down adjustment range : -20 - 20

Left/Right adjustment range : -20 - 20



CAUTION:

Never operate other function such as pressing BACK while writing index data.

If Confirmation/Adjustment mode does not function in the above procedure, perform one of the following service to adjust the index again.

- Remove battery for five min. Then reconnect battery.
- Remove camera control unit connector for five min. Then reconnect camera control unit connector.

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AV

STEERING ANGLE SENSOR

< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

STEERING ANGLE SENSOR

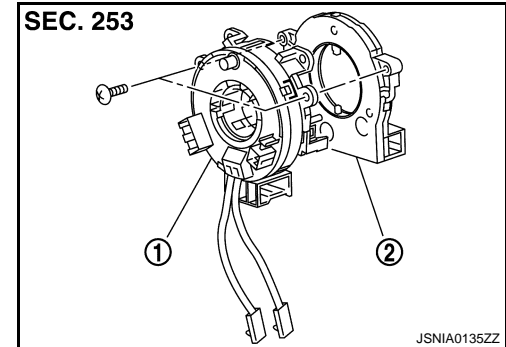
Exploded View

INFOID:000000001558972

REMOVAL

Refer to [SR-7, "Exploded View"](#).

DISASSEMBLY



1. Spiral cable
2. Steering angle sensor

Removal and Installation

INFOID:000000001558973

REMOVAL

1. Remove spiral cable.
2. Remove steering angle sensor from spiral cable.

INSTALLATION

Install in the reverse order of removal.

Adjustment

INFOID:000000001558974

Perform 4WAS front actuator adjustment. Refer to [STC-27, "4WAS FRONT ACTUATOR NEUTRAL POSITION ADJUSTMENT : Description"](#).

ANTENNA FEEDER (RADIO)

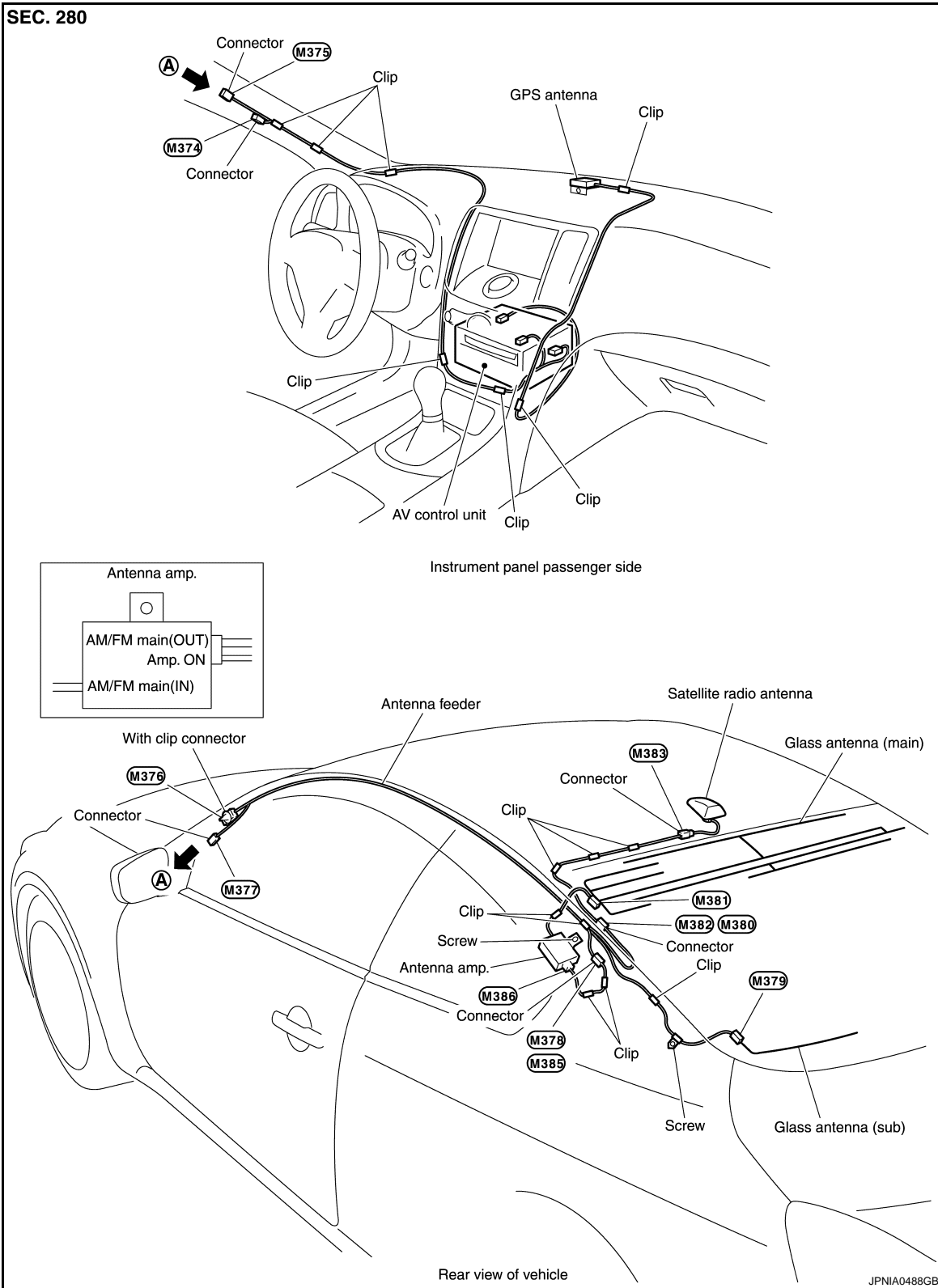
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

ANTENNA FEEDER (RADIO)

Harness Layout

INFOID:000000001558975



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ANTENNA FEEDER (SATELLITE RADIO)

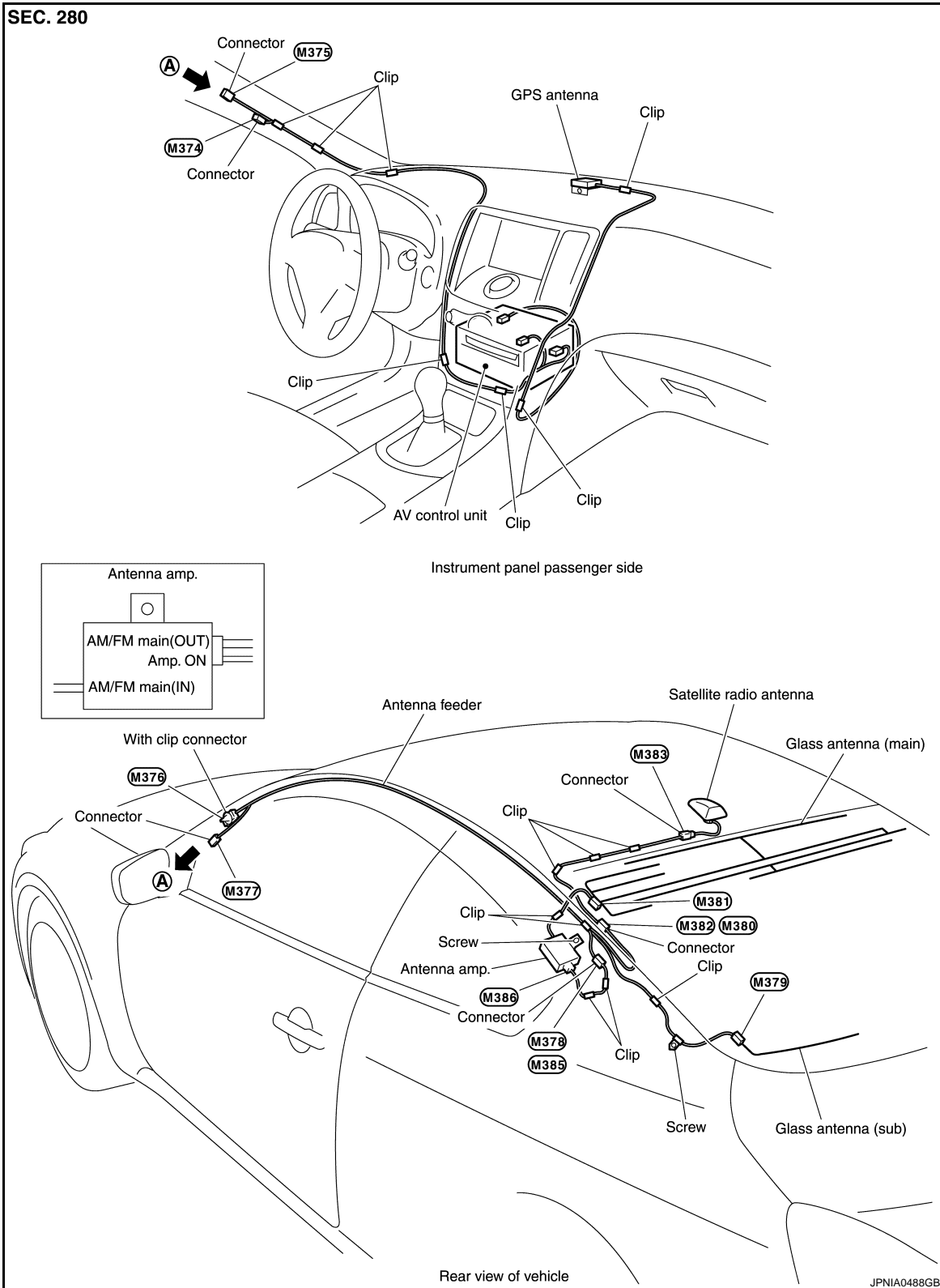
< ON-VEHICLE REPAIR >

[BOSE AUDIO WITH NAVIGATION]

ANTENNA FEEDER (SATELLITE RADIO)

Harness Layout

INFOID:000000001684403



ANTENNA FEEDER (GPS)

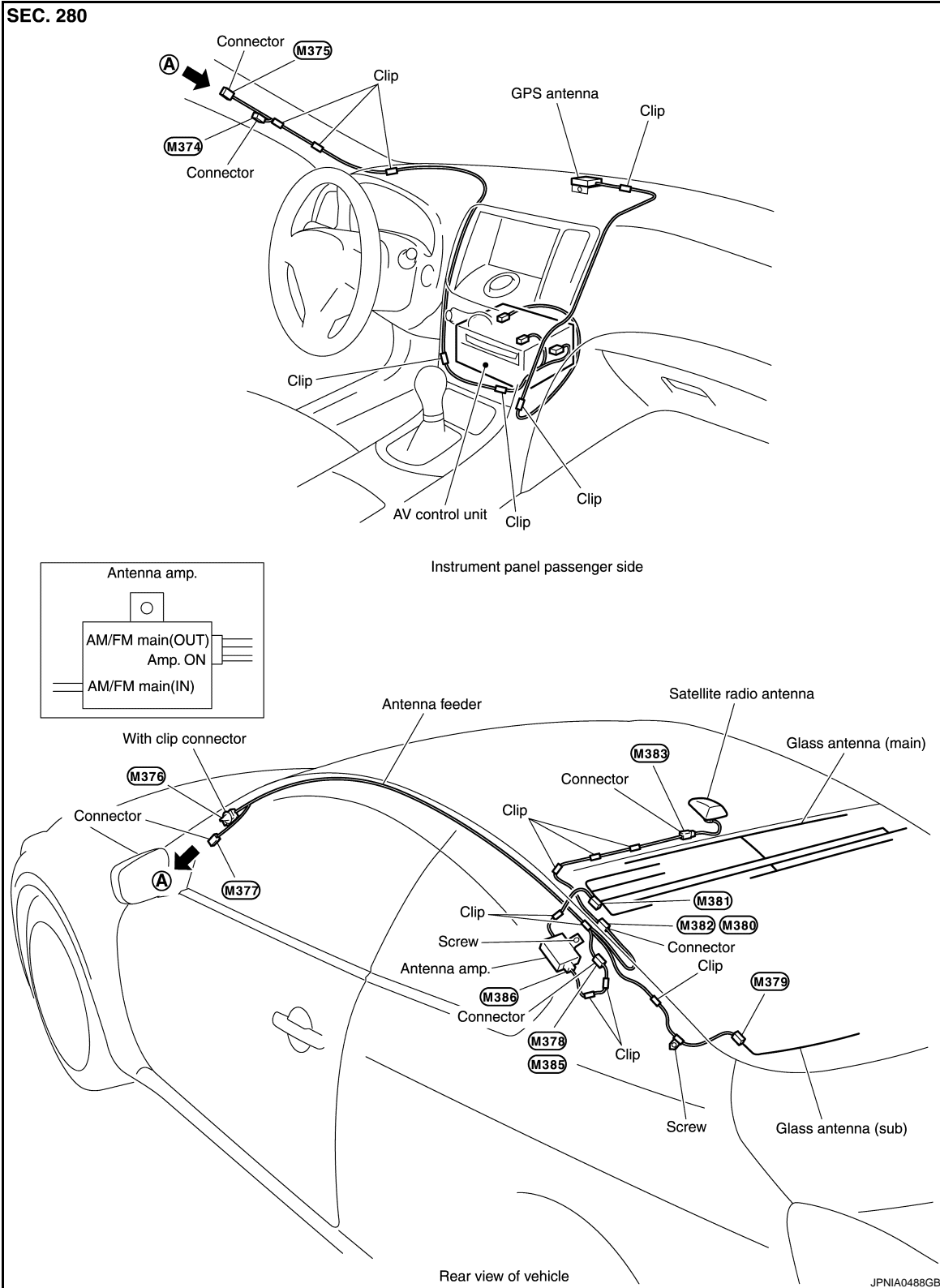
[BOSE AUDIO WITH NAVIGATION]

< ON-VEHICLE REPAIR >

ANTENNA FEEDER (GPS)

Harness Layout

INFOID:000000001684404



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